

BASE PROSPECTUS



GOLDMAN SACHS INTERNATIONAL BANK
incorporated with unlimited liability in England
as Issuer

UNLIMITED
Certificate of Deposit Programme
in respect of STEP compliant "A" Certificates of Deposit and non-STEP
compliant "B" Certificates of Deposit

This Programme has been rated by Fitch Ratings, Inc., Moody's Investors Services, Inc. and S&P
Global Ratings Europe Limited

GOLDMAN SACHS INTERNATIONAL
GOLDMAN SACHS BANK EUROPE SE
as Dealers

DEUTSCHE BANK AG, LONDON BRANCH
as Issue and Paying Agent

This Base Prospectus is dated 9 March 2023

Disclaimer clauses for Dealers and Issue and Paying Agent
See the section entitled "Important Notice" on pages 2 to 5 of this Base Prospectus

An investment in CDs under the Programme involves certain risks
See "Risk Factors" on pages 13 to 32 for a discussion of certain factors to be considered in connection
with any investment in the CDs.

IMPORTANT NOTICE

The Issuer, subject to compliance with all relevant laws, regulations and directives, may from time to time issue STEP-compliant certificates of deposit with a maturity of not more than 364 days from and including the date of issue to but excluding the maturity date or, in the case of extendible CDs, the Final Maturity Date (as defined herein) (the "**A CDs**") and non-STEP compliant certificates of deposit with a maturity that exceeds 364 days from and including the date of issue to but excluding the maturity date or, in the case of extendible CDs, the Final Maturity Date (the "**B CDs**" and, together with the A CDs, the "**CDs**") under the programme (the "**Programme**") as described in this base prospectus (the "**Base Prospectus**").

Application has been made to the Commission de Surveillance du Secteur Financier (the "**CSSF**") in its capacity as competent authority under the Luxembourg Act dated 16 July 2019 on prospectuses for securities (*loi relative aux prospectus pour valeurs mobilières*) (the "**Prospectus Act 2019**") and for the purposes of Article 8(1) of Regulation (EU) 2017/1129 of the European Parliament and of the Council (as amended or superseded, the "**EU Prospectus Regulation**") to approve this document as a base prospectus in respect of the B CDs. The CSSF only approves this Base Prospectus as meeting the standards of completeness, comprehensibility and consistency imposed by the EU Prospectus Regulation. Such approval should not be considered as an endorsement of the Issuer and of the quality of the B CDs that are the subject of this Base Prospectus. Investors should make their own assessment as to the suitability of investing in any such B CDs. By approving this Base Prospectus, the CSSF shall give no undertaking as to the economic and financial soundness of the operation or the quality or solvency of the Issuer in accordance with Article 6(4) of the Prospectus Act 2019. This document constitutes a base prospectus in respect of the B CDs for the purposes of Article 8 of the EU Prospectus Regulation and should be read together with any supplements thereto, all documents incorporated by reference herein and any final terms ("**Final Terms**").

Application has also been made to the Luxembourg Stock Exchange to approve this document as an alleviated prospectus (*prospectus allégé*) in respect of the A CDs. This document constitutes (i) an alleviated prospectus (*prospectus allégé*) in respect of the A CDs for the purposes of Part III of the Prospectus Act 2019 and (ii) an information memorandum in respect of A CDs for the purposes of the Short-Term European Paper ("**STEP**") Initiative.

Application has also been made to the Luxembourg Stock Exchange for the A CDs and the B CDs issued under the Programme to be listed on the official list of the Luxembourg Stock Exchange and admitted to trading on the regulated market of the Luxembourg Stock Exchange, which is a regulated market for the purposes of Directive 2014/65/EU (as amended or superseded, "**MiFID II**"). The Issuer may also issue unlisted A CDs and unlisted B CDs and/or A CDs and B CDs not admitted to trading on any market. Any Extendible A CDs (as defined herein) will be unlisted.

The expression "necessary information" means, in relation to any of the CDs, the information necessary to enable investors in such notes to make an informed assessment of the assets and liabilities, financial position, profits and losses and prospects of the Issuer and of the rights attaching to the CDs. In relation to the different types of CDs that may be issued under the programme, the Issuer has included in this Base Prospectus all of the necessary information except for information which is not known at the date of this Base Prospectus and which can only be determined at the time of an individual issue of the CDs.

Any information relating to the CDs which is not included in this Base Prospectus and which is required in order to complete the necessary information in relation to an issue of the CDs will be contained either in the relevant Final Terms, in a supplement to this Base Prospectus or a further base prospectus for the Programme. For issues of CDs which are the subject of Final Terms, those Final Terms will, for the purposes of that issue only, complete this Base Prospectus and must be read in conjunction with this Base Prospectus.

The distribution of this Base Prospectus and any Final Terms and the offering or sale and delivery of the CDs in certain jurisdictions may be restricted by law. Persons into whose possession this Base Prospectus or any Final Terms come are required by the Issuer to inform themselves about, and to observe, any such restrictions. Subject to certain exceptions, the CDs may not be offered, sold or delivered, directly or indirectly, in the United States of America or to US persons. The CDs have not been and will not be registered under the United States Securities Act of 1933, as amended (the "**Securities Act**"), or under the securities or blue sky laws of any state. Neither the US Securities and Exchange Commission nor any

other regulatory body has approved or disapproved of the CDs or passed upon the accuracy or inaccuracy of this Base Prospectus. This Base Prospectus is not for use in, and may not be delivered to or inside, the United States.

This Base Prospectus or any Final Terms do not constitute an offer to sell, or a solicitation of an offer to buy, any CDs offered hereby by any person in any jurisdiction in which it is unlawful for such person to make such an offer or solicitation. Neither the delivery of this Base Prospectus nor the delivery of any Final Terms nor any sale made hereunder shall under any circumstances imply that there has been no adverse change in the financial situation of the issuer since the date hereof or, as the case may be, the date upon which this Base Prospectus has been most recently supplemented.

In accordance with the STEP Initiative, this Programme will be submitted to the STEP Secretariat in order to apply for the STEP label in respect of the A CDs. The STEP label will not apply to the B CDs. The status of STEP compliance of this Programme can be determined from the STEP Market website (www.stepmarket.org). This website is not sponsored by the Issuer and the Issuer is not responsible for its content or availability. The CSSF expresses no opinion on the STEP label. Certain prescribed information required by the STEP label is included in the sections entitled "Information concerning the Issuer's request for a STEP label" and "Certification of information".

In relation to CDs listed on the official list of the Luxembourg Stock Exchange, this Base Prospectus is valid for a period of twelve months after its date of approval until 9 March 2024. The Issuer has undertaken, in connection with the listing of the CDs, that if there shall occur any material adverse change in the financial condition or operations of the Issuer or any modification or amendment to the terms and conditions of the CDs such that this Base Prospectus would be inaccurate or misleading, the Issuer will prepare and make available a supplement to this Base Prospectus or a further base prospectus for the Programme for any subsequent issue of CDs to be listed on the official list of the Luxembourg Stock Exchange.

The Issuer accepts responsibility for the information contained in this Base Prospectus. To the best of the knowledge of the Issuer, the information contained in this Base Prospectus is in accordance with the facts and the Base Prospectus makes no omission likely to affect its import. Where information contained in this Base Prospectus has been sourced from a third party, such information has been accurately reproduced and so far as issuer is aware and is able to ascertain from information published by that third party, no facts have been omitted which would render the reproduced information inaccurate or misleading.

The Issuer has been assigned a long-term debt credit rating of A+ and a short-term debt credit rating of A-1 by S&P Global Ratings Europe Limited ("**S&P**"); a long-term debt credit rating of A+ and a short-term debt credit rating of F1 by Fitch Ratings, Inc. ("**Fitch**"); and a long-term debt credit rating of A1 and a short-term debt credit rating of P-1 by Moody's Investors Services, Inc. ("**Moody's**").

The credit ratings of the Issuer referred to in this Base Prospectus have been issued by S&P, Fitch and Moody's, of which only S&P is registered under Regulation (EU) No. 1060/2009, as amended or superseded (the "**EU CRA Regulation**"). S&P is established in Ireland and is included in the list of credit rating agencies published by the European Securities and Markets Authority ("**ESMA**") on its website in accordance with the EU CRA Regulation. S&P Global Ratings UK Limited currently endorses credit ratings issued by S&P for regulatory purposes in the United Kingdom in accordance with Regulation (EC) No 1060/2009 as it forms part of United Kingdom domestic law by virtue of the European (Withdrawal) Act 2018 (the "**EUWA**") and the regulations made under the EUWA, as amended (the "**UK CRA Regulation**"). S&P Global Ratings UK Limited is established in the United Kingdom, has been registered under the UK CRA Regulation and is included in the list of credit rating agencies published by the Financial Conduct Authority (the "**FCA**") on its website in accordance with the UK CRA Regulation. There can be no assurance that S&P Global Ratings UK Limited will continue to endorse credit ratings issued by S&P. Neither Fitch nor Moody's is established in the European Union or the United Kingdom, and neither is registered under the EU CRA Regulation or the UK CRA Regulation. Fitch Ratings Ireland Limited currently endorses credit ratings published by Fitch and Moody's Deutschland GmbH currently endorses credit ratings issued by Moody's for regulatory purposes in the European Union in accordance with the EU CRA Regulation. Fitch Ratings Ireland Limited is established in Ireland and Moody's Deutschland GmbH is established in Germany and each has been registered under the EU CRA Regulation and is included in the list of credit rating agencies published by ESMA on its website in accordance with the EU CRA Regulation. There can be no assurance that Fitch Ratings Ireland

Limited and Moody's Deutschland GmbH will continue to endorse credit ratings issued by Fitch and Moody's, respectively. Fitch Ratings Ltd currently endorses credit ratings published by Fitch and Moody's Investors Service Ltd currently endorses credit ratings issued by Moody's for regulatory purposes in the United Kingdom in accordance with the UK CRA Regulation. Fitch Ratings Ltd and Moody's Investors Service Ltd are each established in the United Kingdom and each has been registered under the UK CRA Regulation and is included in the list of credit rating agencies published by the FCA on its website in accordance with the UK CRA Regulation. There can be no assurance that Fitch Ratings Ltd and Moody's Investors Service Ltd will continue to endorse credit ratings issued by Fitch and Moody's, respectively.

In general, European regulated investors are restricted from using a rating for regulatory purposes in the European Union if such rating is not either (1) issued by a credit rating agency established in the European Union and registered with ESMA under the EU CRA Regulation or, (2) in the case of ratings issued by third country non-EU credit rating agencies, either endorsed by an EU-registered credit rating agency or the relevant non-EU credit rating agency is certified under the EU CRA Regulation (and such endorsement action or certification, as the case may be, has not been withdrawn or suspended). Furthermore, in general, UK regulated investors are restricted from using a rating for regulatory purposes if such rating is not either (1) issued by a credit rating agency established in the United Kingdom and registered under the UK CRA Regulation or, (2) in the case of ratings issued by third country non-UK credit rating agencies, either endorsed by a UK registered credit rating agency or issued by a third country credit rating agency that is certified in accordance with the UK CRA Regulation. This is subject, in each case, to the relevant UK registration, certification or endorsement, as the case may be, not having been withdrawn or suspended. A security rating is not a recommendation to buy, sell or hold securities and may be subject to suspension, reduction or withdrawal at any time by the assigning rating agency.

The Issuer has appointed Goldman Sachs International and Goldman Sachs Bank Europe SE as dealers in respect of the CDs pursuant to a dealer agreement dated on or around 9 March 2023 (together with further dealers appointed under the Programme from time to time, the "**Dealers**") under the Programme and authorised and requested the Dealers to circulate this Base Prospectus in connection with the Programme on its behalf to purchasers or potential purchasers of the CDs. Every offering of CDs will be designed, distributed and monitored in accordance with all applicable legal and regulatory requirements (including any product governance requirements).

Benchmarks Regulation

Amounts payable under the CDs may be calculated or otherwise determined by reference to certain reference rates. Any such reference rate may constitute a benchmark for the purposes of Regulation (EU) 2016/1011 (as amended, the "**EU Benchmarks Regulation**") or Regulation (EU) 2016/2011 as it forms part of domestic law by virtue of the EUWA (the "**UK Benchmarks Regulation**"), as applicable.

Not every reference rate will fall within the scope of the EU Benchmarks Regulation or the UK Benchmarks Regulation. Furthermore, transitional provisions in the EU Benchmarks Regulation and the UK Benchmarks Regulation may have the result that the administrator of a particular benchmark is not required to appear in either in the register of administrators and benchmarks established and maintained by ESMA pursuant to Article 36 of the EU Benchmarks Regulation (the "**ESMA Register**") or by the FCA pursuant to Article 36 of the UK Benchmarks Regulation (the "**UK Register**"). The following paragraphs specify the status of the administrator of the reference rates referred to in this Base Prospectus as at the date of hereof. The registration status of any administrator under the EU Benchmarks Regulation or the UK Benchmarks Regulation is, however, a matter of public record and, save where required by applicable law, the Issuer does not intend to update the applicable Final Terms to reflect any change in the registration status of the administrator.

As at the date of this Base Prospectus, each of the Bank of England (as administrator of the Sterling Overnight Index Average rate as a reference rate itself and as the underlying benchmark of "GBP-SONIA" and "GBP-SONIA-OIS Compound" (as defined in the 2021 ISDA Interest Rate Derivative Definitions (the "**2021 ISDA Definitions**")), the Federal Reserve Bank of New York (as administrator of the Secured Overnight Funding Rate as a reference rate itself and the underlying benchmark of "USD-SOFR", "USD-Federal Funds", "USD-Federal Funds-OIS Compound" and "USD-SOFR-OIS Compound" (as defined in the 2021 ISDA Definitions)), the European Central Bank (as administrator of the Euro Short-Term Rate as a reference rate itself and as the underlying benchmark of "EUR-EuroSTR" and "EUR-EuroSTR-OIS Compound" (as defined in the 2021 ISDA Definitions)), the Swiss Stock

Exchange (as administrator of the Swiss Average Rate Overnight as the underlying benchmark of "CHF-SARON" and "CHF-SARON-OIS Compound" (as defined in the 2021 ISDA Definitions)), the Treasury Market Association (as administrator of the Hong Kong Dollar Index Average rate as the underlying benchmark of "HKD-HONIA" and "HKD-HONIA-OIS Compound" (as defined in the 2021 ISDA Definitions)), the Bank of Japan (as administrator of the Tokyo Overnight Average Rate as the underlying benchmark of "JPY-TONA" and "JPY-TONA-OIS Compound" (as defined in the 2021 ISDA Definitions)), the Monetary Authority of Singapore (as administrator of the Singapore Overnight Rate Average as the underlying benchmark of "SGD-SORA" and "SGD-SORA-OIS Compound" (as defined in the 2021 ISDA Definitions)) and the Reserve Bank of Australia (as administrator of the Australian Dollar interbank overnight cash rate as the underlying benchmark of "AUD-AONIA", "AUD-BBSW" and "AUD-AONIA-OIS Compound" (as defined in the 2021 ISDA Definitions)) are not currently required to obtain authorisation or registration under Article 36 of the EU Benchmarks Regulation or Article 36 of the UK Benchmarks Regulation and such reference rates do not fall within the scope of the EU Benchmarks Regulation or the UK Benchmarks Regulation by virtue of Article 2 of the EU Benchmarks Regulation or the UK Benchmarks Regulation, as applicable.

As at the date of this Base Prospectus, the administrator of the Euro Interbank Offered Rate (European Money Markets Institute) and the administrator of the Singapore Interbank Offered Rate (ABS Benchmarks Administration Co Pte Ltd) as the underlying benchmark of "SGD-SIBOR" (as defined in the 2021 ISDA Definitions) are each included in both the ESMA Register and the UK Register. As at the date of this Base Prospectus, the administrator of the Hong Kong Interbank Offered Rate (The Hong Kong Association of Banks) as the underlying benchmark of "HKD-HIBOR" (as defined in the 2021 ISDA Definitions) and the administrator of the Japanese Yen Tokyo Interbank Offered Rate (The Japanese Bankers Association) as the underlying benchmark of "JPY-TIBOR" (as defined in the 2021 ISDA Definitions) are not included in either the ESMA Register or the UK Register.

Presentation of Information

In this Base Prospectus, unless otherwise specified or the context otherwise requires, references to "**US dollars**", "**USD**" and "**US\$**" are to the lawful currency of the United States; references to "**Sterling**" and "**£**" are to the lawful currency of the United Kingdom; and references to "**euro**" and "**€**" are to the single currency introduced at the start of the third stage of European Economic and Monetary Union pursuant to the treaty establishing the European Community, as amended from time to time. Certain monetary amounts included in this base prospectus have been subject to rounding adjustments. Accordingly, figures shown as totals in certain tables may not be an exact arithmetic aggregation of the figures that precede them.

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DESCRIPTION OF THE PROGRAMME

The following description provides a general overview of the Programme for the purposes of Article 25.1(b) of Commission Delegated Regulation (EU) 2019/980 supplementing the EU Prospectus Regulation, should be read as an introduction to the Base Prospectus, and is qualified in its entirety by the more detailed information appearing elsewhere in the Base Prospectus, including the documents incorporated by reference and, in relation to the terms and conditions of any particular issuances of CDs, the applicable Final Terms. Terms used in the following section but not defined have the meanings given to them elsewhere in this Base Prospectus.

Name of the Programme	Goldman Sachs International Bank Certificate of Deposit Programme.
Type of Programme	Certificates of Deposit Programme.
A CDs	Certificates of Deposit, STEP compliant.
B CDs	Certificates of Deposit, non-STEP compliant.
Name of the Issuer	Goldman Sachs International Bank.
Type of Issuer	Monetary financial institution.
Purpose of the Programme	Unless otherwise specified in the relevant Final Terms, the net proceeds of the issue of the CDs will be used by the Issuer for general banking purposes.
Programme Size (ceiling)	Unlimited.
Contact Details	Email: gs-CAF-ldn@gs.com Telephone: + 44 (0)20 7051 5967
Additional information on the Programme	<p>Extendible CDs: The initial Maturity Date of the CDs may be extended at the option of the Issuer if specified in the Final Terms.</p> <p>Issue Price: The issue price of each CD (the "Issue Price") will be specified in the applicable Final Terms.</p> <p>Redemption: Unless previously redeemed or purchased and cancelled, each CD will be redeemed at 100 per cent. of the Nominal Amount of such CD on the Maturity Date, as specified in the applicable Final Terms.</p> <p>Optional Redemption: The CDs may be redeemed before their Maturity Date, or in case of Extendible CDs their Final Maturity Date, at the option of the Issuer, in whole or in part, if specified in the applicable Final Terms. The Issuer will also have the option to redeem the CDs in the event of a change in law or it becomes unlawful for it to perform any of its obligations under the CDs.</p> <p>Final Terms: Each tranche of CDs will be issued on the terms set out in the Terms and Conditions of the A CDs or B CDs, as applicable, as completed by the applicable Final Terms.</p>

Risk Factors:

Investment in the CDs may involve a certain degree of risk. The principal risk factors that may affect the ability of the Issuer to fulfil its obligations under the CDs, are set out in the section headed "Risk Factors" on pages 13 to 32 of this Base Prospectus.

Auditor of the Issuer, who has audited the accounts of the Issuer's Annual Report

In respect of the period ended 31 December 2020:

PricewaterhouseCoopers LLP
1 Embankment Place
London WC2N 6RH
United Kingdom

In respect of the financial year ended 31 December 2021:

Mazars LLP
Tower Bridge House
St Katharine's Dock
London E1W 1DD
United Kingdom

Information on A CDs**Characteristics and Form of A CDs**

A CDs will be in bearer form and each issue of A CDs will initially be represented by one or more global CDs (each, a "Global A CD" and together, the "Global A CDs"). A Global A CD will be exchangeable into definitive A CDs only in the limited circumstances set out in that Global A CD.

Application will be made to the STEP Secretariat in order to apply for the STEP label in respect of the A CDs.

Yield Basis

A CDs may be interest bearing or non-interest bearing. Interest (if any) may accrue at a fixed rate or a floating rate and will be determined in the manner specified in the applicable Final Terms. A CDs may be issued at a discount or premium as specified in the applicable Final Terms.

Currencies of Issue of the A CDs

A CDs may be denominated in euro, Sterling, US dollars or any other currency subject to compliance with any applicable legal and regulatory requirements.

Maturity of the A CDs

The tenor of the A CDs shall be 364 days or less from and including the date of issue to but excluding the Final Maturity Date, subject to compliance with any applicable legal and regulatory requirements.

Minimum Issuance Amount

At least EUR 100,000 (or the equivalent in any other currency).

Minimum Denomination of the A CDs

The minimum denomination of each A CD will be EUR 100,000 (or the equivalent in any other currency) unless otherwise specified in the applicable Final Terms and integral multiples of amounts as specified in the applicable Final Terms (subject in each case to compliance with all applicable legal and regulatory requirements).

Status of the A CDs

A CDs shall represent direct, unconditional, unsubordinated and unsecured obligations of the Issuer and

shall at all times rank *pari passu* with all other present and future unsubordinated and unsecured obligations for funds borrowed or guaranteed by the Issuer (other than in the case of obligations preferred by mandatory provisions of law).

Governing Law that applies to the A CDs	A CDs, and any non-contractual obligations arising out of or in connection with A CDs, will be governed by, and construed in accordance with, English law.
Listing and Admission to Trading	Application has been made for A CDs to be listed on the Official List of the Luxembourg Stock Exchange and to be admitted to trading on the Luxembourg Stock Exchange's regulated market. The Issuer may also issue A CDs that are unlisted.
Settlement System	Euroclear Bank S.A./N.V. (" Euroclear ") and/or Clearstream Banking S.A. (" Clearstream ") and/or any other clearing system as may be specified in the Final Terms (the " Relevant Clearing Systems ").
Ratings of the Programme	<p>As at the date of this Base Prospectus, the Programme has been rated by Fitch, Moody's and S&P.</p> <p>S&P is established in Ireland and is registered under the EU CRA Regulation. S&P Global Ratings UK Limited is established in the United Kingdom and has been registered under the UK CRA Regulation. S&P Global Ratings UK Limited currently endorses credit ratings issued by S&P for regulatory purposes in the United Kingdom in accordance with the UK CRA Regulation, however there can be no assurance that S&P Global Ratings UK Limited will continue to endorse credit ratings issued by S&P.</p> <p>Neither Fitch nor Moody's is established in the European Union or the United Kingdom and neither is registered under EU CRA Regulation or the UK CRA Regulation. Fitch Ratings Ireland Limited currently endorses credit ratings published by Fitch and Moody's Deutschland GmbH currently endorses credit ratings issued by Moody's for regulatory purposes in the European Union in accordance with the EU CRA Regulation. Fitch Ratings Ireland Limited is established in Ireland and Moody's Deutschland GmbH is established in Germany and each has been registered under the EU CRA Regulation and is included in the list of credit rating agencies published by ESMA on its website in accordance with the EU CRA Regulation. There can be no assurance that Fitch Ratings Ireland Limited and Moody's Deutschland GmbH will continue to endorse credit ratings issued by Fitch and Moody's, respectively. Fitch Ratings Ltd currently endorses credit ratings published by Fitch and Moody's Investors Service Ltd currently endorses credit ratings issued by Moody's for regulatory purposes in the United Kingdom in accordance with the UK CRA Regulation. Fitch Ratings Ltd and Moody's Investors Service Ltd are each established in the United Kingdom and each has been registered under the UK CRA Regulation and is included in the list of credit rating agencies published by the FCA on its website in accordance with the UK CRA Regulation. There can be no assurance that Fitch Ratings Ltd and</p>

Moody's Investors Service Ltd will continue to endorse credit ratings issued by Fitch and Moody's, respectively.

A rating is not a recommendation to buy, sell or hold securities and may be subject to suspension, reduction or withdrawal at any time by the relevant rating agency.

Guarantor(s)

None.

Issuing and Paying Agent

Deutsche Bank AG, London Branch.

Arranger

Not Applicable.

Dealer

Goldman Sachs International and Goldman Sachs Bank Europe SE. The Issuer may also appoint additional dealers under the Programme from time to time.

Selling Restrictions

Offers and sales of A CDs and the distribution of this Base Prospectus and other information relating to the Issuer and the A CDs are subject to certain restrictions, details of which are set out under "Subscription and Sale" on pages 121 to 123 of this Base Prospectus.

Taxation

All payments under A CDs will be made free and clear of withholding for or on account of any taxes imposed by the jurisdiction of incorporation of the Issuer (being, as of the date hereof, the United Kingdom) or any jurisdiction through or from which payments by or on behalf of the Issuer are made, save as set out in paragraphs 6 and 7 of the Form of Global A CD. For a description of the United Kingdom and United States tax analysis of the CDs, see "Taxation" on pages 104 to 106 of this Base Prospectus.

Information on B CDs

Characteristics and Form of B CDs

B CDs will be in bearer form and each issue of B CDs will initially be represented by one or more global B CDs (each, a "**Global B CD**" and together, the "**Global B CDs**"). A Global B CD will be exchangeable into definitive B CDs only in the limited circumstances set out in that Global B CD.

The STEP label will not apply to the B CDs.

Yield Basis

B CDs may be interest bearing or non-interest bearing. Interest (if any) may accrue at a fixed rate or a floating rate and will be determined in the manner specified in the Final Terms. A CDs may be issued at a discount or premium as specified in the applicable Final Terms.

In the case of the B CDs, the applicable Final Terms will state whether the B CDs will include an interest step-up provision or an interest step-down provision, in which case the rate of interest in respect of the B CDs may increase ("**Step-Up B CDs**") or decrease ("**Step-Down B CDs**") as the term of the CDs progresses, on dates specified in the applicable Final Terms.

Currencies of Issue of the B CDs

B CDs may be denominated in euro, Sterling, US dollars or any other currency subject to compliance with any applicable legal and regulatory requirements.

Maturity of the B CDs	The tenor of the B CDs shall be more than 364 days from and including the date of issue to but excluding the Final Maturity Date, subject to compliance with any applicable legal and regulatory requirements.
Minimum Issuance Amount	At least EUR 100,000 (or the equivalent in any other currency).
Minimum Denomination of the B CDs	The minimum denomination of each B CD will be EUR 100,000 (or the equivalent in any other currency) unless otherwise specified in the applicable Final Terms and integral multiples of amounts as specified in the applicable Final Terms (subject in each case to compliance with all applicable legal and regulatory requirements). For any B CDs admitted to trading on the regulated market on Luxembourg Stock Exchange, the minimum denomination of each CD will not be less than EUR 100,000 (or the equivalent in any other currency).
Status of the B CDs	B CDs shall represent direct, unconditional, unsubordinated and unsecured obligations of the Issuer and shall at all times rank <i>pari passu</i> with all other present and future unsubordinated and unsecured obligations for funds borrowed or guaranteed by the Issuer (other than in the case of obligations preferred by mandatory provisions of law).
Governing Law that applies to the B CDs	B CDs, and any non-contractual obligations arising out of or in connection with B CDs, will be governed by, and construed in accordance with, English law.
Listing and Admission to Trading	Application has been made for B CDs to be listed on the Official List of the Luxembourg Stock Exchange and to be admitted to trading on the Luxembourg Stock Exchange's regulated market. The Issuer may also issue B CDs that are unlisted.
Settlement System	Euroclear and/or Clearstream and/or or any other clearing system as may be specified in the Final Terms.
Ratings of the Programme	<p>As at the date of this Base Prospectus, the Programme has been rated by Fitch, Moody's and S&P.</p> <p>S&P is established in Ireland and is registered under the EU CRA Regulation. S&P Global Ratings UK Limited is established in the United Kingdom and has been registered under the UK CRA Regulation. S&P Global Ratings UK Limited currently endorses credit ratings issued by S&P for regulatory purposes in the United Kingdom in accordance with the UK CRA Regulation, however there can be no assurance that S&P Global Ratings UK Limited will continue to endorse credit ratings issued by S&P.</p> <p>Neither Fitch nor Moody's is (i) established in the European Union nor registered under the EU CRA Regulation, nor (ii) established in the United Kingdom nor registered under the UK CRA Regulation. Fitch Ratings Ireland Limited currently endorses credit ratings published by Fitch and Moody's Deutschland GmbH currently endorses credit ratings issued by Moody's for regulatory purposes in the European Union in accordance with the EU</p>

CRA Regulation. Fitch Ratings Ireland Limited is established in Ireland and Moody's Deutschland GmbH is established in Germany and each has been registered under the EU CRA Regulation and is included in the list of credit rating agencies published by ESMA on its website in accordance with the EU CRA Regulation. There can be no assurance that Fitch Ratings Ireland Limited and Moody's Deutschland GmbH will continue to endorse credit ratings issued by Fitch and Moody's, respectively. Fitch Ratings Ltd currently endorses credit ratings published by Fitch and Moody's Investors Service Ltd currently endorses credit ratings issued by Moody's for regulatory purposes in the United Kingdom in accordance with the UK CRA Regulation. Fitch Ratings Ltd and Moody's Investors Service Ltd are each established in the United Kingdom and each has been registered under the UK CRA Regulation and is included in the list of credit rating agencies published by the FCA on its website in accordance with the UK CRA Regulation. There can be no assurance that Fitch Ratings Ltd and Moody's Investors Service Ltd will continue to endorse credit ratings issued by Fitch and Moody's, respectively. A rating is not a recommendation to buy, sell or hold securities and may be subject to suspension, reduction or withdrawal at any time by the relevant rating agency.

Guarantor(s)	None.
Issuing and Paying Agent	Deutsche Bank AG, London Branch.
Arranger	Not Applicable.
Dealer	Goldman Sachs International and Goldman Sachs Bank Europe SE. The Issuer may also appoint additional dealers under the Programme from time to time.
Selling Restrictions	Offers and sales of B CDs and the distribution of this Base Prospectus and other information relating to the Issuer and the B CDs are subject to certain restrictions, details of which are set out under "Subscription and Sale" on pages 121 to 123 of this Base Prospectus.
Taxation	All payments under B CDs will be made free and clear of withholding for or on account of any taxes imposed by the jurisdiction of incorporation of the Issuer (being, as of the date hereof, the United Kingdom) or any jurisdiction through or from which payments by or on behalf of the Issuer are made, save as set out in paragraphs 6 and 7 of the Form of Global B CD. For a description of the United Kingdom and United States tax analysis of the CDs, see "Taxation" on pages 104 to 106 of this Base Prospectus.

RISK FACTORS

This Base Prospectus describes the material risks that are specific to the Issuer and the CDs and that may affect the Issuer's ability to fulfil its obligations under the CDs. This Base Prospectus does not describe all of the risks of an investment in the CDs. The Issuer disclaims any responsibility to advise investors of such risks as they change from time to time. Further, the Issuer makes no representations as to (i) the suitability of any CDs for any particular investor, (ii) the appropriate accounting treatment or possible tax consequences of an investment in any CDs or (iii) the expected performance of any CDs, either in absolute terms or relative to competing investments. Prospective CD holders should obtain their own independent accounting, tax and legal advice and should consult their own professional investment adviser to ascertain the suitability of the CDs as an investment and should conduct such independent investigation and analysis regarding the risks and cash-flows associated with the CDs as they deem appropriate to evaluate the merits and risks of an investment in the CDs. In particular, prospective CD holders should note that an investment in the CDs is only suitable for persons who (i) have the knowledge and experience in financial and business matters necessary to enable them to evaluate the information contained in the Base Prospectus and Final Terms and the risks of the CDs in the context of their own financial, tax and regulatory circumstances and investment objectives; (ii) are able to bear the economic risk of an investment in the CDs for an indefinite period of time; and (iii) are acquiring the CDs for their own account for investment, not with a view to resale.

A. FACTORS THAT MAY AFFECT THE ISSUER'S ABILITY TO FULFIL ITS OBLIGATIONS UNDER THE CDS

1. Risks related to the lack of security or collateral, deposit protection or any parent company or group guarantee or support

The CDs are not eligible for deposit protection under the FSCS.

Banks, insurance companies and other financial institutions in the UK are subject to the Financial Services Compensation Scheme (the "FSCS"), which operates when an authorised firm is unable or is likely to be unable to meet claims made against it because of its financial circumstances. Most deposits made with the Issuer in the UK are covered by the FSCS. However, certain amendments to the depositor protection rules of the PRA came into force on 3 July 2015 in the UK with the result that the CDs no longer qualify as deposits for the purposes of the PRA's deposit protection rules. Accordingly, the CDs are not eligible for deposit protection under the FSCS.

2. Risks related to economic, market and political condition

The Issuer's businesses have been and may in the future be adversely affected by conditions in the global financial markets and broader economic conditions.

The Issuer's businesses, by their nature, do not produce predictable earnings and are materially affected by conditions in the global financial markets and economic conditions generally, both directly and through their impact on client activity levels and creditworthiness. In addition, a significant portion of the Issuer's business involves transactions with, through, arising from, involving, or otherwise related to other GS Group (as defined below) entities, and any adverse change in the businesses or activity levels of GS Group (as defined below) more broadly can have an adverse impact on the Issuer. These conditions can change suddenly and negatively.

The Issuer's financial performance is highly dependent on the environment in which its businesses operate. A favourable business environment is generally characterised by, among other factors, high global gross domestic product growth, regulatory and market conditions that result in transparent, liquid and efficient capital markets, low inflation, business, consumer and investor confidence, stable geopolitical conditions and strong business earnings.

Unfavourable or uncertain economic and market conditions can be caused by: low levels of or declines in economic growth, business activity or investor, business or consumer confidence; changes in consumer spending or borrowing patterns; pandemics; limitations on the availability or increases in the cost of credit and capital; illiquid markets; increases in inflation, interest rates, exchange rate or basic commodity price volatility or default rates; concerns about sovereign defaults; uncertainty concerning fiscal or monetary policy; the extent of and uncertainty about potential increases in tax rates and other

regulatory changes; limitations on international trade and travel; laws and regulations that limit trading in, or the issuance of, securities of issuers outside their domestic markets; outbreaks of domestic or international tensions or hostilities, terrorism, nuclear proliferation, cybersecurity threats or attacks and other forms of disruption to or curtailment of global communication, energy transmission or transportation networks or other geopolitical instability or uncertainty; corporate, political or other scandals that reduce investor confidence in capital markets; extreme weather events or other natural disasters; or a combination of these or other factors.

The financial services industry and the securities and other financial markets have been materially and adversely affected in the past by significant declines in the values of nearly all asset classes, by a serious lack of liquidity and by high levels of borrower defaults. In addition, concerns about actual or potential increases in interest rates, inflation and other borrowing costs, a resurgence of COVID-19 cases, European sovereign debt risk and its impact on the European banking system, limitations on international trade, and potential or actual changes in interest rates, inflation and other market conditions, have, at times, negatively impacted the levels of client activity.

General uncertainty about economic, political and market activities, and the scope, timing and impact of regulatory reform, as well as weak consumer, investor and chief executive officer confidence resulting in large part from such uncertainty, has in the past negatively impacted client activity, which can adversely affect many of the Issuer's businesses. Periods of low volatility and periods of high volatility combined with a lack of liquidity, have at times had an unfavourable impact on the Issuer's market-making businesses.

Financial institution returns may be negatively impacted by increased funding costs due in part to the lack of perceived government support of such institutions in the event of future financial crises relative to financial institutions in countries in which governmental support is maintained. In addition, liquidity in the financial markets has also been negatively impacted as market participants and market practices and structures continue to adjust to evolving regulatory frameworks.

Changes in market interest rates could adversely affect the Issuer's revenues and expenses, the value of assets and obligations, and the availability and cost of funding.

As a result of the Issuer's lending and deposit-taking activities, it has exposure to market interest rate movements. In addition to the impact on the general economy, changes in interest rates could directly impact the Issuer in one or more of the following ways:

- (a) the yield on interest-earning assets, primarily on lending activities, and rates paid on interest-bearing liabilities, primarily deposit-taking activities, may change in disproportionate ways;
- (b) the value of certain balance sheet and off-balance sheet financial instruments could decline; or
- (c) the cost of funding from affiliates or third parties may increase and the ability to raise funding could become more difficult.

The Issuer's profitability depends to an extent on net interest income, which is the difference between the interest income earned on interest-earning assets, such as loans and securities, and interest expense on interest-bearing liabilities, such as deposits and borrowed funds. Accordingly, the Issuer's results of operations depend to a significant extent on movements in market interest rates and its ability to manage interest-rate-sensitive assets and liabilities in response to these movements. Factors such as inflation, recession and instability in financial markets, among other factors beyond the Issuer's control, may affect interest rates.

Any substantial, unexpected, prolonged change in market interest rates could have a material adverse effect on the Issuer's financial condition, liquidity and results of operations. Changes in the level of interest rates also may negatively affect the Issuer's ability to originate loans, the value of assets and the Issuer's ability to realise gains from the sale of assets, all of which ultimately affect earnings.

Inflation has had, and could continue to have, a negative effect on the Issuer's business, results of operations and financial condition.

Inflationary pressures have affected economies, financial markets and market participants worldwide. Inflationary pressures have increased certain of the Issuer's operating expenses, and have adversely affected consumer sentiment and CEO confidence. Central bank responses to inflationary pressures have also resulted in higher market interest rates, which, in turn, have contributed to lower activity levels across financial markets, in particular for debt underwriting transactions, and resulted in lower values for certain financial assets which have adversely affected the Issuer's equity and debt investments. Higher interest rates increase the Issuer's borrowing costs and have required the Issuer to increase interest paid on its deposits. If inflationary pressures persist, the Issuer's expenses may increase further; the Issuer may be unable to achieve its efficiency ratio target; activity levels for certain of its businesses may remain at low levels or decline further; its interest expense could increase faster than its interest income, reducing its net interest income and net interest margin; certain of its investments could continue to incur losses or generally low levels of returns; assets under supervision could decline, reducing management and other fees; economies worldwide could experience recessions; and the Issuer could continue to operate in a generally unfavourable economic and market environment.

3. Legal and regulatory risks

The Issuer's businesses and those of its clients are subject to extensive and pervasive regulation around the world.

As a participant in the financial services industry and a subsidiary of a systemically important financial institution, the Issuer is subject to extensive regulation, principally in the United Kingdom and the E.U. more generally but also in the US as a subsidiary of The Goldman Sachs Group, Inc. ("**Group, Inc.**" and, together with its consolidated subsidiaries, the "**GS Group**") and in certain other jurisdictions. The Issuer faces the risk of significant intervention by law enforcement, regulatory and tax authorities, as well as private litigation, in all jurisdictions in which it conducts its businesses. In many cases, the Issuer's activities have been and may continue to be subject to overlapping and divergent regulation in different jurisdictions. Among other things, as a result of law enforcement authorities, regulators or private parties challenging the Issuer's compliance with laws and regulations, the Issuer or its employees have been and could be fined, criminally charged or sanctioned, prohibited from engaging in certain business activities, subjected to limitations or conditions on its business activities including higher capital requirements, or subjected to new or substantially higher taxes or other governmental charges in connection with the conduct of its businesses or with respect to its employees. These limitations or conditions may limit business activities and negatively impact the Issuer's profitability. In addition to the impact on the scope and profitability of the Issuer's business activities, day-to-day compliance with laws and regulations has involved and will continue to involve significant amounts of time, including that of the Issuer's senior leaders and that of a large number of dedicated compliance and other reporting and operational personnel, all of which may negatively impact the Issuer's profitability.

The Issuer's revenues and profitability and those of its competitors have been and will continue to be impacted by requirements relating to capital, additional loss-absorbing capacity, leverage, minimum liquidity and long-term funding levels, requirements related to resolution and recovery planning, derivatives clearing and margin rules and levels of regulatory oversight, as well as limitations on which and, if permitted, how certain business activities may be carried out by financial institutions. The laws and regulations that apply to the Issuer's businesses are often complex and, in many cases, the Issuer must make interpretive decisions regarding the application of those laws and regulations to its business activities. Changes in interpretations, whether in response to regulatory guidance, industry conventions, the Issuer's own reassessments or otherwise, could adversely affect its businesses, results of operations or ability to satisfy applicable regulatory requirements, such as capital or liquidity requirements.

If there are new laws or regulations or changes in the interpretation or enforcement of existing laws or regulations applicable to the Issuer's businesses or those of the Issuer's clients, including capital, liquidity, leverage, long-term debt, total loss-absorbing capacity ("**TLAC**") and margin requirements, restrictions on other business practices, reporting requirements, requirements relating to the implementation of the Bank Recovery and Resolution Directive in the United Kingdom as it forms part of United Kingdom domestic law by virtue of the EUWA and the regulations made thereunder ("**UK BRRD**"), tax burdens and compensation restrictions, that are imposed on a limited subset of financial institutions (whether based on size, method of funding, activities, geography or other criteria) which may include the Issuer

or Group, Inc., compliance with these new laws and regulations, or changes in the enforcement of existing laws or regulations, could adversely affect the Issuer's ability to compete effectively with other institutions that are not affected in the same way. In addition, regulation imposed on financial institutions or market participants generally, such as taxes on stock transfers and other financial transactions, could adversely impact levels of market activity more broadly, and thus impact the Issuer's businesses. Changes to laws and regulations, such as tax laws, could also have a disproportionate impact on the Issuer, based on the way those laws or regulations are applied to financial services and financial firms or due to the Issuer's corporate structure.

These developments could impact the Issuer's profitability in the affected jurisdictions, or even make it uneconomic to continue to conduct all or certain businesses in those jurisdictions, or could result in the Issuer incurring significant costs associated with changing business practices, restructuring businesses, moving all or certain businesses and employees to other locations or complying with applicable capital requirements, including liquidating assets or raising capital in a manner that adversely increases the Issuer's funding costs or otherwise adversely affects its shareholder and creditors.

The implementation of higher capital requirements, the liquidity coverage ratio, the net stable funding ratio, requirements relating to long-term debt and TLAC and the prohibition on proprietary trading by the provisions of the U.S. Dodd-Frank Wall Street Reform and Consumer Protection Act (the "**Dodd-Frank Act**") referred to as the "Volcker Rule" may continue to adversely affect the Issuer's profitability and competitive position, particularly if these requirements do not apply, or do not apply equally, to the Issuer's competitors or are not implemented uniformly across jurisdictions. The Issuer may also become subject to higher and more stringent capital and other regulatory requirements as a result of the implementation of Basel Committee on Banking Supervision's standards, including those published in December 2017.

The Issuer is also subject to laws and regulations relating to the privacy of the information of clients, employees or others, and any failure to comply with these laws and regulations could expose the Issuer to liability and/or reputational damage. As new privacy-related laws and regulations are implemented, the time and resources needed for the Issuer to comply with such laws and regulations, as well as the Issuer's potential liability for non-compliance and reporting obligation in the case of data breaches, may significantly increase.

In addition, the Issuer's businesses are increasingly subject to laws and regulations relating to surveillance, encryption and data on-shoring in the jurisdictions in which the Issuer operates. Compliance with these laws and regulations may require the Issuer to change its policies, procedures and technology for information security, which could, among other things, make the Issuer more vulnerable to cyber attacks and misappropriation, corruption or loss of information or technology.

The Issuer has entered into a consumer-oriented deposit-taking business and the Issuer expects to expand the product scope of its offerings. This expansion subjects the Issuer to numerous additional regulations. Not only are these regulations extensive, but they involve types of regulations and supervision, as well as regulatory compliance risks that the Issuer has not previously encountered. The level of regulatory scrutiny and the scope of regulations affecting financial interactions with consumers is often much greater than that associated with doing business with institutions and high-net-worth individuals. Complying with these regulations is time-consuming, costly and presents new and increased risks.

Increasingly, regulators and courts have sought to hold financial institutions liable for the misconduct of their clients where such regulators and courts have determined that the financial institution should have detected that the client was engaged in wrongdoing, even though the financial institution had no direct knowledge of the activities engaged in by its client. Regulators and courts have also increasingly found liability as a "control person" for activities of entities in which financial institutions or funds controlled by financial institutions have an investment, but which they do not actively manage. In addition, regulators and courts continue to seek to establish "fiduciary" obligations to counterparties to which no such duty had been assumed to exist. To the extent that such efforts are successful, the cost of, and liabilities associated with, engaging in brokerage, clearing, market-making, prime brokerage, investing and other similar activities could increase significantly. To the extent that the Issuer has fiduciary obligations in connection with acting as a financial adviser, investment adviser or in other roles for individual, institutional, sovereign or investment fund clients, any breach, or even an alleged breach, of such obligations could have materially negative legal, regulatory and reputational consequences.

No assurance can be given as to the impact of any change in law.

The CDs are governed by English law in effect as at the date of issue of the relevant CDs. No assurance can be given as to the impact of any possible judicial decision or change to English law or regulatory provisions after the date of issue of the relevant CDs.

4. Risks related to the Issuer's business activities and industry

The Issuer's liquidity, profitability and businesses may be adversely affected by an inability to access the debt capital markets or to sell assets.

Liquidity is essential to the Issuer's businesses. It is of critical importance to the Issuer, as most of the failures of financial institutions have occurred in large part due to insufficient liquidity. The Issuer's liquidity may be impaired by an inability to access secured and/or unsecured debt markets, an inability to access funds from Group, Inc. or other GS Group affiliates, an inability to sell assets or redeem investments, lack of timely settlement of transactions, or other unforeseen outflows of cash or collateral, such as in March 2020, when corporate clients drew on revolving credit facilities in response to the COVID-19 pandemic. This situation may arise due to circumstances that the Issuer may be unable to control, such as a general market or economic disruption or an operational problem that affects third parties or the Issuer or its affiliates or even by the perception among market participants that the Issuer, or other market participants, are experiencing greater liquidity risk.

The Issuer primarily relies on deposits to be a low cost and stable source of funding for the financial transaction in which it engages. The Issuer accepts deposits from institutional and private wealth management clients as well as directly from consumer clients through its digital deposit platform. It also issues certificates of deposits and accepts deposits from its affiliates. Certain deposit accounts do not have significant restrictions on withdrawal, and depositors can generally withdraw some or all of the funds in their accounts with little or no notice. Furthermore, the Issuer competes with other banks and other financial services companies for deposits. Competitors may raise the rates they pay on deposits and the Issuer may be required to raise its rates to avoid losing deposits. If the Issuer experiences significant withdrawals, for any reason, its funding costs may increase due to reliance on more expensive sources of funding. If the Issuer is required to fund its operations at a higher cost, these conditions may require the Issuer to curtail its activities, which also could reduce profitability.

Further, the Issuer's ability to sell assets may be impaired if there is not generally a liquid market for such assets, as well as in circumstances where other market participants are seeking to sell similar otherwise generally liquid assets at the same time, as is likely to occur in a liquidity or other market crisis or in response to changes to rules or regulations. For example, recently an investment management firm with large positions with several financial institutions defaulted, resulting in rapidly declining prices in the securities underlying those positions. In addition, clearinghouses, exchanges and other financial institutions with which the Issuer interacts may exercise set-off rights or the right to require additional collateral, including in difficult market conditions, which could further impair the Issuer's liquidity.

Regulatory changes relating to liquidity may also negatively impact the Issuer's results of operations and competitive position. Numerous regulations have been adopted or proposed to introduce more stringent liquidity requirements for large financial institutions. These regulations address, among other matters, liquidity stress testing, minimum liquidity requirements, wholesale funding, restrictions on short-term debt and structured notes issued by top-tier holding companies, deductions for holding TLAC and prohibitions on parent guarantees that are subject to certain cross-defaults. New and prospective liquidity-related regulations may overlap with, and be impacted by, other regulatory changes, including rules relating to minimum long-term debt requirements and TLAC, capital, leverage and resolution and recovery frameworks applicable to large financial institutions. Given the overlap and complex interactions among these new and prospective regulations, they may have unintended cumulative effects, and their full impact will remain uncertain, while regulatory reforms are being adopted and market practices develop.

Reductions in the Issuer's credit ratings or an increase in its credit spreads may adversely affect its liquidity and cost of funding.

The Issuer is an indirect, wholly-owned operating subsidiary of Group, Inc. and depends on Group, Inc. for capital and funding. The credit ratings of the Issuer and those of Group, Inc. are important to the

Issuer's liquidity. A reduction in the Issuer's and/or Group, Inc.'s credit ratings could adversely affect the Issuer's liquidity and competitive position, increase borrowing costs, limit access to the capital markets or funding from Group, Inc.

The Issuer's cost of obtaining long-term unsecured funding is directly related to both the credit spreads of the Issuer and Group, Inc. Increases in the credit spreads of the Issuer and/or Group, Inc. can significantly increase the cost of this funding. Changes in credit spreads are continuous, market-driven, and subject at times to unpredictable and highly volatile movements. The credit spreads of the Issuer and/or Group, Inc. are also influenced by market perceptions of the Issuer's and/or Group, Inc.'s creditworthiness and movements in the costs to purchasers of credit default swaps referenced to Group, Inc.'s long-term debt. The market for credit default swaps has proven to be extremely volatile and at times has lacked a high degree of transparency or liquidity.

Concentration of risk increases the potential for significant losses in the Issuer's market-making, underwriting, investing and financing activities.

Concentration of risk increases the potential for significant losses in market-making, underwriting, investing and financing activities. The number and size of these transactions has affected and may in the future affect the Issuer's results of operations in a given period. Moreover, because of concentrated risk, the Issuer may suffer losses even when economic and market conditions are generally favourable for competitors. Disruptions in the credit markets can make it difficult for the Issuer to hedge these credit exposures effectively or economically.

In the ordinary course of business, the Issuer may be subject to a concentration of credit risk to a particular counterparty, borrower, issuer (including sovereign issuers), or geographic area or group of related countries, such as the European Union and a failure or downgrade of, or default by, such entities could negatively impact the Issuer's businesses, perhaps materially, and the systems by which the Issuer sets limits and monitors the level of its credit exposure to individual entities, industries, countries and regions may not function as anticipated.

A failure to appropriately identify and address potential conflicts of interest could adversely affect the Issuer's businesses.

Due to the broad scope of GS Group's businesses and client base, the Issuer regularly addresses potential conflicts of interest, including situations where services to a particular client or GS Group's own investments or other interests conflict, or are perceived to conflict, with the interests of that client or another client, as well as situations where one or more of its businesses have access to material non-public information that may not be shared with other businesses within GS Group and situations where it may be a creditor of an entity with which GS Group also has an advisory or other relationship.

Extensive procedures and controls are in place that are designed to identify and address conflicts of interest, including those designed to prevent the improper sharing of information among businesses. However, appropriately identifying and dealing with conflicts of interest is complex and difficult, and the Issuer's reputation, which is one of its most important assets, could be damaged and the willingness of clients to enter into transactions with the Issuer may be adversely affected if it fails, or appears to fail, to identify, disclose and deal appropriately with conflicts of interest. In addition, potential or perceived conflicts could give rise to litigation or regulatory enforcement actions. Additionally, GS Group's One Goldman Sachs initiative aims to increase collaboration amongst its businesses, which may increase the potential for actual or perceived conflicts of interest and improper information sharing.

The Issuer's businesses, profitability and liquidity may be adversely affected by deterioration in the credit quality of, or defaults by, third parties.

The Issuer is exposed to the risk that third parties who owe money, securities or other assets will not perform their obligations. These parties may default on their obligations to the Issuer due to bankruptcy, lack of liquidity, operational failure or other reasons. A failure of a significant market participant, or even concerns about a default by such an institution, could lead to significant liquidity problems, losses or defaults by other institutions, which in turn could adversely affect the Issuer.

The Issuer is also subject to the risk that its rights against third parties may not be enforceable in all circumstances. In addition, deterioration in the credit quality of third parties whose securities or

obligations are held by the Issuer, including a deterioration in the value of collateral posted by third parties to secure their obligations to the Issuer under derivatives contracts and loan agreements, could result in losses and/or adversely affect the Issuer's ability to rehypothecate or otherwise use those securities or obligations for liquidity purposes.

A significant downgrade in the credit ratings of the Issuer's counterparties could also have a negative impact on the Issuer's results. While in many cases the Issuer is permitted to require additional collateral from counterparties that experience financial difficulty, disputes may arise as to the amount of collateral the Issuer is entitled to receive and the value of pledged assets. The termination of contracts and the foreclosure on collateral may subject the Issuer to claims for the improper exercise of its rights. Default rates, downgrades and disputes with counterparties as to the valuation of collateral typically increase significantly in times of market stress and illiquidity.

The Issuer might underestimate the credit losses inherent in its loan portfolio and have credit losses in excess of the amount reserved.

The Issuer might underestimate the credit losses inherent in its loan portfolio and have credit losses in excess of the amount reserved. The credit quality of the Issuer's loan portfolio can have a significant impact on its earnings. Banks must consider all relevant information when estimating expected credit losses, including details about past events, current conditions, and reasonable and supportable forecasts. This process requires difficult, subjective and complex judgements by the Issuer's management in order to estimate credit losses over the life of the financial assets. As is the case with any such assessments, there is always the chance that the Issuer will fail to identify the proper factors or that the Issuer will fail to accurately estimate the impacts of factors that are identified. In addition, the accuracy of the Issuer's management's estimations of expected credit losses may be affected by macroeconomic factors. Through the process of estimating credit losses over the life of the loans, the Issuer might underestimate the credit losses inherent in the loan portfolio and have credit losses in excess of the amount reserved.

While the Issuer's management uses the best information available to determine this estimate, the Issuer has made and may make future adjustments to the allowance based on, among other things, changes in the economic environment, the quality of the loan portfolio or the values of the underlying collateral.

Derivative transactions and delayed settlements may expose the Issuer to unexpected risk and potential losses.

The Issuer is party to a number of derivative transactions, including credit derivatives. Many of these derivative instruments are individually negotiated and non-standardised, which can make exiting, transferring or settling positions difficult. Many credit derivatives require that the Issuer deliver to the counterparty the underlying security, loan or other obligation in order to receive payment. In a number of cases, the Issuer does not hold the underlying security, loan or other obligation and may not be able to obtain the underlying security, loan or other obligation. This could cause the Issuer to forfeit the payments due under these contracts or result in settlement delays with the attendant credit and operational risk as well as increased costs to the Issuer.

As a signatory to the International Swaps and Derivatives Association Universal Resolution Stay Protocol (the "**ISDA Universal Protocol**") and the International Swaps and Derivatives Association 2018 U.S. Resolution Stay Protocol (collectively, the "**ISDA Protocols**"), the Issuer may not be able to exercise termination rights and other remedies against counterparties and, as this new regime has not yet been tested, the Issuer may suffer risks or losses that it would not have expected to suffer if it could immediately close out transactions upon a termination event. The ISDA Protocols and these rules and regulations extend to repurchase agreements and other instruments that are not derivative contracts.

Derivative contracts and other transactions entered into with third parties are not always confirmed by the counterparties or settled on a timely basis. While the transaction remains unconfirmed or during any delay in settlement, the Issuer is subject to heightened credit and operational risk and in the event of a default may find it more difficult to enforce its rights.

In addition, as new complex derivative products are created, covering a wider array of underlying credit and other instruments, disputes about the terms of the underlying contracts could arise, which could impair the Issuer's ability to effectively manage its risk exposures from these products and subject it to increased costs. The provisions of legislation requiring central clearing of credit derivatives and other

over-the-counter ("OTC") derivatives, or a market shift toward standardised derivatives, could reduce the risk associated with these transactions, but under certain circumstances could also limit the Issuer's ability to develop derivatives that best suit the needs of clients and to hedge its own risks, and could adversely affect the Issuer's profitability and has increased credit exposure to central clearing platforms.

The Issuer faces enhanced risks as new business initiatives and acquisitions lead it to engage in new activities, operate in new locations, transact with a broader array of clients and counterparties and expose it to new asset classes and new markets.

The Issuer faces enhanced risks as new business initiatives lead it to transact with a broader array of clients and counterparties and expose it to new asset classes and new markets. A number of the Issuer's recent and planned business initiatives, such as the client execution activities undertaken by the Johannesburg branch, and expansions of existing businesses, such as the Issuer's consumer-oriented activities, may bring it into contact, directly or indirectly, with individuals and entities that are not within the Issuer's traditional client and counterparty base and expose it to new asset classes and new markets. For example, the Issuer continues to transact business and invest in new regions and new markets, including a wide range of emerging and growth markets.

As a result of the Issuer's consumer-oriented activities, the Issuer could face additional compliance, legal and regulatory risk, increased reputational risk and increased operational risk due to, among other things, higher transaction volumes, greater reliance on third-party vendors, increased volume of customer complaints, significantly increased retention requirements and transmission of customer and client information and increased regulatory compliance obligations.

The Issuer has developed and pursued new business and strategic initiatives, and expects to continue to do so. If and to the extent the Issuer is unable to successfully execute those initiatives, it may incur unanticipated costs and losses, and face other adverse consequences, such as negative reputational effects. In addition, the actual effects of pursuing those initiatives may differ, possibly materially, from the benefits that the Issuer expects to realise from them, such as generating additional revenues, achieving expense savings, reducing operational risk exposures or using capital and funding more efficiently. Engaging in new activities exposes the Issuer to a variety of risks, including that it may be unable to successfully develop new, competitive, efficient and effective systems and processes, and hire and retain the necessary personnel.

In order to develop and be able to offer competitive consumer financial products that compete effectively, the Issuer has made and expects to continue to make significant investments in technology and human capital resources in connection with its consumer-oriented activities.

New business initiatives expose the Issuer to new and enhanced risks, including risks associated with dealing with governmental entities, reputational concerns arising from dealing with different types of clients, counterparties and investors, greater regulatory scrutiny of these activities, increased credit-related, market, sovereign and operational risks, risks arising from accidents or acts of terrorism, and reputational concerns with the manner in which certain assets are being operated or held or in which the Issuer interacts with these clients, counterparties and investors. Legal, regulatory and reputational risks may also exist in connection with activities and transactions involving new products or markets where there is regulatory uncertainty or where there are different or conflicting regulations depending on the regulator or the jurisdiction involved, particularly where transactions in such products may involve multiple jurisdictions.

Certain of the Issuer's businesses, its funding instruments and financial products may be adversely affected by changes in or the discontinuance of IBORs, in particular LIBOR.

Certain of the Issuer's businesses, funding instruments and financial products may be adversely affected by changes in or the discontinuance of Interbank Offered Rates ("IBORs"), in particular the London Interbank Offered Rate ("LIBOR").

The FCA and the administrator of LIBOR have announced that the publication of the most commonly used US Dollar LIBOR settings will cease to be provided or cease to be representative after 30 June 2023. The FCA has conducted a consultation on the possibility of the on-going publication of one-month, three-month and six-month USD LIBOR settings in 'synthetic' form until the end of September 2024. The publication of all other LIBOR settings ceased to be provided or ceased to be representative as of 31

December 2021. As the transition from LIBOR is ongoing, there continues to be substantial uncertainty as to the ultimate effect of the transition on the financial markets for LIBOR-linked financial instruments. Similar developments have occurred with respect to other IBORs.

Uncertainty regarding IBORs and the taking of discretionary actions or negotiation or implementation of fallback provisions could result in pricing volatility, loss of market share in certain products, adverse tax or accounting impacts, compliance, legal and operational costs and risks associated with client disclosures, as well as systems disruption, model disruption and other business continuity issues. In addition, uncertainty relating to IBORs could result in increased capital requirements for the Issuer given potential low transaction volumes, a lack of liquidity or limited observability for exposures linked to IBORs or any emerging successor rates and operational incidents associated with changes in and the discontinuance of IBORs.

The language in the Issuer's contracts and financial instruments that define IBORs, in particular LIBOR, has developed over time and has various events that trigger when a successor rate to the designated rate would be selected. Once a trigger is satisfied, contracts and financial instruments often give the calculation agent (which may be the Issuer) discretion over the successor rate or benchmark to be selected. As a result, for the most commonly used US Dollar LIBOR settings, there continues to be considerable uncertainty as to how the financial services industry will address the discontinuance of designated rates in contracts and financial instruments or such designated rates ceasing to be acceptable reference rates. This uncertainty could ultimately result in client disputes and litigation surrounding the proper interpretation of the Issuer's IBOR based contracts and financial instruments. For LIBOR settings that ceased to be provided or ceased to be representative as of December 2021, discretionary actions taken in connection with the implementation of fallback provisions could also result in client disputes and litigation particularly for derivatives and other synthetic instruments. Although the Issuer has adhered to the ISDA IBOR Fallbacks Protocol, the protocol is applicable to derivatives when both parties adhere to it or otherwise agree for it to apply to their derivatives.

Further, the discontinuation of an IBOR, changes in an IBOR or changes in market acceptance of any IBOR as a reference rate may also adversely affect the yield on loans or securities held by the Issuer, amounts paid on securities the Issuer has issued, amounts received and paid on derivative instruments the Issuer has entered into, the value of such loans, securities or derivative instruments, the trading market for securities, the terms of new loans being made using different or modified reference rates, the Issuer's ability to effectively use derivative instruments to manage risk, or the availability or cost of the Issuer's floating-rate funding and its exposure to fluctuations in interest rates.

The Issuer may be adversely affected by negative publicity.

The financial services industry generally and the Issuer's businesses in particular have been subject to negative publicity. The Issuer's reputation and businesses may be adversely affected by negative publicity or information regarding its business and personnel, whether or not accurate or true, that may be posted on social media or other internet forums or published by news organisations. Postings on these types of forums may also adversely impact risk positions of the Issuer's clients and other parties that owe it money, securities or other assets and increase the chance that they will not perform their obligation to the firm or reduce the revenues received from their use of the Issuer's services. The speed and pervasiveness with which information can be disseminated through these channels, in particular social media, may magnify risks relating to negative publicity.

The Issuer's risks in connection with operating in multiple jurisdictions.

In conducting the Issuer's businesses and maintaining and supporting its global operations, the Issuer is subject to risks of possible nationalisation, expropriation, price controls, capital controls, exchange controls, communications and other content restrictions and other restrictive governmental actions, as well as the outbreak of hostilities or acts of terrorism. For example, sanctions have been imposed by the U.S., U.K. and EU on certain individuals and companies in response to Russia's invasion of Ukraine and the illegal annexation of Ukraine's Crimea, Donetsk, Luhansk, Zaporizhzhia and Kherson regions. In many countries, the laws and regulations applicable to the securities and financial services industries and many of the transactions in which the Issuer is involved are uncertain and evolving, and it may be difficult to determine the exact requirements of local laws in every market. Any determination by local regulators that the Issuer has not acted in compliance with the application of local laws in a particular market or a failure to develop effective working relationships with local regulators could have a significant and

negative effect not only on the Issuer's businesses in that market but also on its reputation generally. Further, in some jurisdictions a failure, or alleged failure, to comply with laws and regulations have subjected and may in the future subject the Issuer and its personnel not only to civil actions but also criminal actions and other sanctions. The Issuer is also subject to the enhanced risk that transactions it structures might not be legally enforceable in all cases.

While business and other practices throughout the world differ, the Issuer is subject in its operations worldwide to rules and regulations relating to corrupt and illegal payments, hiring practices and money laundering, as well as laws relating to doing business with certain individuals, groups and countries, such as the U.S. Foreign Corrupt Practices Act, the U.S. Bank Secrecy Act, as amended, and the UK Bribery Act. While the Issuer has invested and continues to invest significant resources in training and in compliance monitoring, the geographical diversity of its operations, employees and clients, as well as the vendors and other third parties that the Issuer deals with, greatly increases the risk that the Issuer may be found in violation of such rules or regulations and any such violation could subject it to significant penalties or adversely affect its reputation.

In addition, there have been a number of highly publicised cases around the world, involving actual or alleged fraud or other misconduct by employees in the financial services industry in recent years, and the Issuer has had, and may in the future have, employee. This misconduct has included and may also in the future include intentional efforts to ignore or circumvent applicable policies, rules or procedures or misappropriation of funds and the theft of proprietary information, including proprietary software. It is not always possible to deter or prevent employee misconduct and the precautions taken to prevent and detect this activity have not been and may not be effective in all cases.

The Issuer may incur losses as a result of unforeseen or catastrophic events, including pandemics, terrorist attacks, extreme weather events or other natural disasters.

The occurrence of unforeseen or catastrophic events, including pandemics, such as COVID-19 or other widespread health emergencies (or concerns over the possibility of such an emergency), terrorist attacks, extreme weather events, solar events or other natural disasters, could create economic and financial disruptions, and could lead to operational difficulties (including travel limitations and limitations on occupancy in the Issuer's offices) that could impair the Issuer's ability to manage its businesses and result in losses.

The COVID-19 pandemic created economic and financial disruptions that have in the past adversely affected and may in the future adversely affect the Issuer's business, financial condition, liquidity and results of operations. The extent to which the COVID-19 pandemic will negatively affect the Issuer's businesses, financial condition, liquidity and results of operations will depend on, among other things, future developments, including any resurgence of COVID-19 cases, the emergence of new variants of COVID-19 and the effectiveness of vaccines and treatments over the long term and against new variants, which are highly uncertain and cannot be predicted.

Climate change could disrupt the Issuer's businesses, adversely affect client activity levels, and the creditworthiness of its client counterparties and the Issuer's efforts to address concerns relating to climate change could result in damage to its reputation.

Climate change may cause extreme weather events that disrupt operations at one or more of the Issuer's primary locations, which may negatively affect its ability to service and interact with its clients. Climate change and the transition to a less carbon-dependent economy may also have a negative impact on the financial condition of its clients and counterparties, which may decrease revenues from those clients and counterparties and increase the credit risk associated with loans and other credit exposures to those clients. In addition, climate change may impact the broader economy.

The Issuer is also exposed to risks resulting from changes in public policy, laws and regulations, or market and public perceptions and preferences in connection with the transition to a less carbon-dependent economy. These changes could adversely affect the Issuer's business, results of operations and reputation. For example, the Issuer's reputation and client relationships may be damaged as a result of its involvement, or its clients' involvement, in certain industries or projects associated with causing or exacerbating climate change, as well as any decisions the Issuer makes to continue to conduct or change its activities in response to considerations relating to climate change. If GS Group is unable to achieve

its objectives relating to climate change or its response to climate change is perceived to be ineffective or insufficient, the Issuer's business, reputation and efforts to recruit and retain employees may suffer.

New regulations or guidance relating to climate change, as well as the perspectives of regulators, shareholders, employees and other stakeholders regarding climate change, may affect whether and on what terms and conditions the Issuer can engage in certain activities or offer certain products. Banking regulators and supervisory authorities, shareholders and other stakeholders have increasingly viewed financial institutions as playing an important role in helping to address risks related to climate change, both directly and with respect to their clients, which may result in financial institutions coming under increased requirements and expectations regarding the disclosure and management of their climate risks and related lending, investment and advisory activities. The Issuer also may become subject to new or heightened regulatory requirements relating to climate change, such as requirements relating to operational resiliency or stress testing for various climate stress scenarios. Any such new or heightened requirements could result in increased regulatory, compliance or other costs or higher capital requirements. The risks associated with, and the perspective of regulators, GS Group's shareholders, employees and other stakeholders regarding, climate change are continuing to evolve rapidly, which can make it difficult to assess the ultimate impact of climate change-related risks and uncertainties, and the Issuer expects that climate change-related risks will increase over time.

The Issuer's business, financial condition, liquidity and results of operations may be adversely affected by disruptions in the global economy caused by Russia's invasion of Ukraine and related sanctions and other developments.

The war between Russia and Ukraine has negatively affected the global economy. Governments around the world have responded to Russia's invasion by imposing economic sanctions and export controls on certain industry sectors, including price caps on Russian oil, and parties in Russia. Compliance with economic sanctions and restrictions imposed by governments has increased the Issuer's costs and otherwise adversely affected its business and may continue to do so. Russia has responded with its own restrictions against investors and countries outside Russia and has proposed additional measures aimed at non-Russia owned businesses. Businesses in the U.S. and globally have experienced shortages in materials and increased costs for transportation, energy, and raw materials due in part to the negative effects of the war on the global economy. The escalation or continuation of the war between Russia and Ukraine or other hostilities could result in, among other things, further increased risk of cyber-attacks, an increased frequency and volume of failures to settle securities transactions, supply chain disruptions, higher inflation, lower consumer demand and increased volatility in commodity, currency and other financial markets.

The extent and duration of the war, sanctions and resulting market disruptions are impossible to predict, and the consequences for the Issuer's business could be significant.

The financial services industry is highly competitive.

To the extent the Issuer expands into new business areas and new geographic regions, it will face competitors with more experience and more established relationships with clients, regulators and industry participants in the relevant market, which could adversely affect its ability to expand.

Governments and regulators have adopted regulations, imposed taxes, adopted compensation restrictions or otherwise put forward various proposals that have impacted or may impact the Issuer's ability to conduct certain of its businesses in a cost-effective manner or at all in certain or all jurisdictions, including proposals relating to restrictions on the type of activities in which financial institutions are permitted to engage. These or other similar rules, many of which do not apply to all the Issuer's competitors, could impact its ability to compete effectively.

Pricing and other competitive pressures in the Issuer's businesses have continued to increase, particularly in situations where some competitors may seek to increase market share by reducing prices. For example, in connection with investment banking and other engagements, in response to competitive pressure the Issuer has experienced, the Issuer has extended and priced credit at levels that may not always fully compensate it for the risks taken.

The financial services industry is highly interrelated in that a significant volume of transactions occur among a limited number of members of that industry. Many transactions are syndicated to other financial

institutions and financial institutions are often counterparties in transactions. This has led to claims by other market participants and regulators that such institutions have colluded in order to manipulate markets or market prices, including allegations that antitrust laws have been violated. While the Issuer has extensive procedures and controls that are designed to identify and prevent such activities, allegations of such activities, particularly by regulators, can have a negative reputational impact and can subject the Issuer to large fines and settlements, and potentially significant penalties, including treble damages.

The Issuer is reliant on Group, Inc. and other GS Group affiliates for client business, various services and capital.

The Issuer is a wholly-owned subsidiary of Group, Inc. As a wholly-owned subsidiary, the Issuer relies on various business relationships of Group, Inc. and other GS Group affiliates generally, including the ability to receive various services, as well as, in part, the capital and liquidity of the Issuer's ultimate parent, Group, Inc., as well as the liquidity of Goldman Sachs Funding LLC ("**Funding IHC**"), a wholly-owned, direct subsidiary of Group, Inc. that facilitates the execution of GS Group's preferred resolution strategy. Although the Issuer has taken steps to reduce its reliance on other GS Group affiliates, it remains an operating subsidiary of a larger organisation and therefore its interconnectedness within the organisation will continue. Because the Issuer's business relies upon Group, Inc. and other GS Group affiliates to a significant extent, risks that could affect these entities could also have a significant impact on the Issuer.

Furthermore, the Issuer relies upon certain GS Group affiliates for various support services, including, but not limited to, trade execution, relationship management, settlement and clearing, risk management and other technical, operational and administrative services. Such services are provided to the Issuer pursuant to the intercompany services agreement, which is generally terminable upon mutual agreement of Group, Inc. and its subsidiaries, subject to certain exceptions, including material breach of the agreement.

As a consequence of the foregoing, in the event the Issuer's relationships with other GS Group affiliates are not maintained, for any reason, including as a result of possible strategic decisions that Group, Inc. may make from time-to-time or as a result of material adverse changes in Group, Inc.'s performance, the Issuer's net revenues may decline, the cost of operating and funding its business may increase and the Issuer's business, financial condition and profitability may be materially and adversely affected.

Furthermore, the Issuer receives a portion of its funding in the form of unsecured funding indirectly from Group, Inc. and from Funding IHC, and collateralised financings from other GS Group affiliates. To the extent such funding is not available to the Issuer, its growth could be constrained and/or its cost of funding could increase.

The Issuer may be subject to additional levies placed by the FSCS.

The FSCS is funded by levies on authorised UK firms such as the Issuer. While it is anticipated that the substantial majority of these facilities will be repaid wholly from recoveries from the institutions concerned, there is the risk of a shortfall, such that the FSCS may place additional levies on FSCS participants. In the event that the FSCS raises funds, raises those funds more frequently or significantly increases the levies to be paid by firms, the associated costs to the Issuer may have a material impact on the Issuer's results and financial condition.

5. Internal operational control risks

A failure in the Issuer's operational systems or infrastructure, or those of third parties, as well as human error, malfeasance or other misconduct, could impair the Issuer's liquidity, disrupt its businesses, result in the disclosure of confidential information, damage its reputation and cause losses.

The Issuer's businesses are highly dependent on its ability to process and monitor, on a daily basis, a very large number of transactions, many of which are highly complex, and occur at high volumes and frequencies, across numerous and diverse markets in many currencies. These transactions, as well as information technology services provided to clients, often must adhere to client-specific guidelines, as well as legal and regulatory standards.

Many rules and regulations worldwide govern the Issuer's obligations to report transactions and other information to regulators, exchanges and investors. Compliance with these legal and reporting requirements can be challenging, and the group has been, and may in the future be, subject to regulatory fines and penalties for failing to follow these rules or to report timely, accurate and complete information in accordance with these rules. As such requirements expand, compliance with these rules and regulations has become more challenging.

As the Issuer's client base, including through the consumer businesses, expands, and the volume, speed, frequency and complexity of transactions, especially electronic transactions (as well as the requirements to report such transactions on a real-time basis to clients, regulators and exchanges) increase, developing and maintaining the Issuer's operational systems and infrastructure becomes more challenging, and the risk of systems or human error in connection with such transactions increases, as well as the potential consequences of such errors due to the speed and volume of transactions involved and the potential difficulty associated with discovering such errors quickly enough to limit the resulting consequences.

The use of computing devices and phones is critical to the work done by the Issuer's employees and the operation of the Issuer's systems and businesses and those of its clients and third-party service providers and vendors. Their importance has continued to increase, in particular in light of work-from-home arrangements implemented in response to the COVID-19 pandemic. Computers and computer networks are subject to various risks, including, among others, cyber attacks, inherent technological defects, system failures and errors by human operators. For example, fundamental security flaws in computer chips found in many types of these computing devices and phones have been reported in the past and may be discovered in the future. Cloud technologies are also critical to the operation of the Issuer's systems and platforms and the Issuer's reliance on cloud technologies is growing. Service disruptions have resulted, and may result in the future, in delays in accessing, or the loss of, data that is important to the Issuer's business and may hinder the Issuer's clients' access to the Issuer's platforms. In recent years there have been a number of widely publicised cases of outages in connection with access to cloud computing providers. Addressing these and similar issues could be costly and affect the performance of these businesses and systems. Operational risks may be incurred in applying fixes and there may still be residual security risks.

Additionally, although the prevalence and scope of applications of distributed ledger technology and similar technologies is growing, the technology is also nascent and may be vulnerable to cyber attacks or have other inherent weaknesses. The Issuer is exposed to risks, and may become exposed to additional risks, related to distributed ledger technology, including through the Issuer's facilitation of clients' activities involving financial products that use distributed ledger technology, such as blockchain or cryptocurrencies, the Issuer's investments in firms that seek to develop platforms based on distributed ledger technology, the use of distributed ledger technology by third-party vendors, clients, counterparties, clearing houses and other financial intermediaries and the receipt of cryptocurrencies or other digital assets as collateral.

In addition, the Issuer faces the risk of operational failure or significant operational delay, termination or capacity constraints of any of the clearing agents, exchanges, clearing houses or other financial intermediaries that it uses to facilitate securities and derivatives transactions, and as interconnectivity with clients grows, the Issuer will increasingly face the risk of operational failure or significant operational delay with respect to clients' systems.

Despite the Issuer's resiliency plans and facilities, its ability to conduct business may be adversely impacted by a disruption in the infrastructure that supports its businesses and the communities where the Issuer is located. This may include a disruption involving electrical, satellite, undersea cable or other communications, internet, transportation or other facilities used by the Issuer, its employees or third parties with which the Issuer conducts business, including cloud service providers. These disruptions may occur as a result of events that affect only the Issuer's buildings or systems or those of such third parties, or as a result of events with a broader impact globally, regionally or in the cities where those buildings or systems are located, including, but not limited to, natural disasters, war, civil unrest, terrorism, economic or political developments, pandemics and weather events.

In addition, although the Issuer seeks to diversify its third-party vendors to increase its resiliency, the Issuer is also exposed to the risk that a disruption or other information technology event at a common service provider to the Issuer's vendors could impede their ability to provide products or services to the

Issuer, including in connection with the Issuer's new business initiatives. The Issuer may not be able to effectively monitor or mitigate operational risks relating to its vendors' use of common service providers.

A failure to protect the Issuer's computer systems, networks and information, and its clients' information, against cyber attacks and similar threats could impair its ability to conduct its businesses, result in the disclosure, theft or destruction of confidential information, damage its reputation and cause losses.

The Issuer is regularly the target of attempted cyber attacks, including denial-of-service attacks, and must continuously monitor and develop its systems to protect the integrity and functionality of its technology infrastructure and access to and the security of its data. The increasing migration of the Issuer's communication from devices the Issuer provides to employee-owned devices presents additional risks of cyber attacks as do work-from-home arrangements such as those implemented in response to the COVID-19 pandemic. In addition, due to the interconnectivity with third-party vendors (and their respective service providers), central agents, exchanges, clearing houses and other financial institutions, the Issuer could be adversely impacted if any of them is subject to a successful cyber attack or other information security event. These impacts could include the loss of access to information or services from the third party subject to the cyber attack or other information security event, which could, in turn, interrupt certain of the Issuer's businesses.

Despite the Issuer's efforts to ensure the integrity of its systems and information, it may not be able to anticipate, detect or implement effective preventive measures against all cyber threats, especially because the techniques used are increasingly sophisticated, change frequently and are often not recognised until launched. Cyber attacks can originate from a variety of sources, including third parties who are affiliated with or sponsored by foreign governments or are involved with organised crime or terrorist organisations. Third parties may also attempt to place individuals in the Issuer's office or induce employees, clients or other users of the Issuer's systems to disclose sensitive information or provide access to the Issuer's data or that of its clients, and these types of risks may be difficult to detect or prevent.

Although the Issuer takes protective measures proactively and endeavours to modify them as circumstances warrant, its computer systems, software and networks may be vulnerable to unauthorised access, misuse, computer viruses or other malicious code, cyber attacks on the Issuer's vendors and other events that could have a security impact. Risks relating to cyber attacks on the Issuer's vendors have been increasing given the greater frequency and severity in recent years of supply chain attacks affecting software and information technology service providers. Due to the complexity and interconnectedness of the Issuer's systems, the process of enhancing protective measures can itself create a risk of systems disruptions and security issues. In addition, protective measures that the Issuer employs to compartmentalise its data may reduce its visibility into, and adversely affect its ability to respond to, cyber threats and issues within its systems.

If one or more of such events occur, this potentially could jeopardise the Issuer or its clients' or counterparties' confidential and other information processed, stored in or transmitted through, the Issuer's computer systems and networks, or otherwise cause interruptions or malfunctions in the Issuer's operations or those of its clients', its counterparties' or third parties', which could impact their ability to transact with the Issuer or otherwise result in legal or regulatory action, significant losses or reputational damage.

In addition, such an event could persist for an extended period of time before being detected, and, following detection, it could take considerable time for the Issuer to obtain full and reliable information about the extent, amount and type of information compromised. During the course of an investigation, the Issuer may not know the full impact of the event and how to remediate it, and actions, decisions and mistakes that are taken or made may further increase the negative effects of the event on the Issuer's business, results of operations and reputation.

The Issuer has expended, and expects to continue to expend, significant resources on an ongoing basis to modify its protective measures and to investigate and remediate vulnerabilities or other exposures, but these measures may be ineffective and the Issuer may be subject to legal or regulatory action, as well as financial losses that are either not insured against or not fully covered through any insurance it maintains.

The Issuer's confidential information may also be at risk from the compromise of clients' personal electronic devices or as a result of a data security breach at an unrelated company. Losses due to

unauthorised account activity could harm the Issuer's reputation and may have adverse effects on its business, financial condition and results of operations.

The increased use of mobile and cloud technologies can heighten these and other operational risks, as can work-from-home arrangements. Certain aspects of the security of such technologies are unpredictable or beyond the Issuer's control, and the failure by mobile technology and cloud service providers to adequately safeguard their systems and prevent cyber attacks could disrupt the Issuer's operations and result in misappropriation, corruption or loss of confidential and other information. In addition, there is a risk that encryption and other protective measures, despite their sophistication, may be defeated, particularly to the extent that new computing technologies vastly increase the speed and computing power available.

The Issuer routinely transmits and receives personal, confidential and proprietary information by email and other electronic means. The Issuer has discussed and worked with clients, vendors, service providers, counterparties and other third parties to develop secure transmission capabilities and protect against cyber attacks, but does not have, and may be unable to put in place, secure capabilities with all of its clients, vendors, service providers, counterparties and other third parties and it may not be able to ensure that these third parties have appropriate controls in place to protect the confidentiality of the information. An interception, misuse or mishandling of personal, confidential or proprietary information being sent to or received from a client, vendor, service provider, counterparty or other third party could result in legal liability, regulatory action and reputational harm.

The Issuer may incur losses as a result of ineffective risk management processes and strategies.

The Issuer seeks to monitor and control its risk exposure through a risk and control framework encompassing a variety of separate, but complementary financial, credit, operational, compliance and legal reporting systems, internal controls, management review processes and other mechanisms. The Issuer's risk management process seeks to balance its ability to profit from market-making positions and underwriting activities in which it engages with its exposure to potential losses. Whilst the Issuer employs a broad and diversified set of risk monitoring and risk mitigation techniques, those techniques and the judgements that accompany their application cannot anticipate every economic and financial outcome or the specifics and timing of such outcomes. Thus, in the course of its activities, the Issuer has incurred and may in the future incur losses. Market conditions in recent years have involved unprecedented dislocations and highlight the limitations inherent in using historical data to manage risk.

B. FACTORS WHICH ARE MATERIAL FOR THE PURPOSES OF ASSESSING THE MARKET RISKS IN RELATION TO THE CDS

1. Risks related to the value and liquidity of the CDs

The CDs may not have an active trading market.

Although application will be made for admission of the CDs to the Official List of the Luxembourg Stock Exchange and to trading on the regulated market of the Luxembourg Stock Exchange, a secondary market for any CDs issued by the Issuer is unlikely to develop. Even if a secondary market for a CD develops, it may not provide significant liquidity. The Issuer and/or its affiliates have no obligation to make a market with respect to the CDs and make no commitment to make a market in or repurchase the CDs. The Issuer expects that transaction costs in any secondary market would be high. As a result, the difference between bid and asked prices for the CD in any secondary market could be substantial. If the Issuer or its affiliates do make a market for the CDs, they may cease to do so at any time without notice to investors and are not obligated to provide any quotation of bid or offer price(s) of the CDs which is favourable to investors.

Price discrepancies in the secondary market.

The value or quoted price of the CDs at any time will reflect many factors and cannot be predicted, and if a purchaser sells his or her CDs prior to its maturity, such purchaser may receive less than its Issue Price. Such factors, most of which are beyond the control of the Issuer, will influence the market price of the CDs, and will include national and international economic, financial, regulatory, political, terrorist, military and other events that affect securities generally, interest and yield rates in the market, the time remaining until the CDs mature, the creditworthiness of the Issuer, whether actual or perceived. Furthermore, if any purchaser sells their CDs, the purchaser will likely be charged a commission for secondary market transactions, or the price will likely reflect a dealer discount.

Changes in interest rates are likely to affect the market price of any CDs issued by the Issuer.

The Issuer expects that the market price of any CDs it may issue will be affected by changes in interest rates, although these changes may affect such CDs and a traditional debt security to different degrees. In general, if interest rates increase, the Issuer expects that the market value of a fixed income instrument which paid interest and an amount equal to the outstanding nominal amount of a CD an investor may purchase on the same schedule as that CD would decrease, whereas if interest rates decrease, the Issuer expects that the market value of such a fixed income instrument would increase.

Changes in the Issuer's credit ratings may affect the market price of a CD.

The Issuer's credit ratings are an assessment of its ability to pay its obligations, including those on any CDs it may issue. Consequently, actual or anticipated changes in the Issuer's credit ratings may affect the market price of a CD. However, because the return on a CD is typically dependent upon certain factors in addition to the Issuer's ability to pay its obligations on the CD, an improvement in the Issuer's credit ratings will not reduce the other investment risks related to any such CDs.

Risks relating to the regulation and reform of certain published rates, indices and other values or "benchmarks".

A number of major interest rates, other rates, indices and other published values or benchmarks are the subject of on-going national and international regulatory reforms. These reforms may cause such benchmarks to perform differently than in the past, to disappear entirely or have other consequences which cannot be predicted. Any such consequence could have a material adverse effect on the value of and return on CDs linked to any such value or benchmark.

Regulation (EU) 2016/1011 on indices used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds (the "**EU Benchmarks Regulation**") and Regulation (EU) 2016/1011 as it forms part of UK domestic law by virtue of the EUWA and regulations made thereunder (the "**UK Benchmarks Regulation**", and together with the EU Benchmarks Regulation, the "**Benchmarks Regulations**") are a key element of the ongoing regulatory reform in, respectively, the EU and the United Kingdom. In addition to "critical benchmarks" such as EURIBOR, other interest

rates, foreign exchange rates and indices, including equity, commodity and "proprietary" indices or strategies, will in most cases be within scope of one or both of the Benchmarks Regulations as "benchmarks" where they are used to determine the amount payable under, or the value of, certain financial instruments (including (i) in the case of the EU Benchmarks Regulation, CDs listed on an EU regulated market or EU multilateral trading facility and (ii) in the case of the UK Benchmarks Regulation, CDs listed on a UK recognised investment exchange or a UK multilateral trading facility), and in a number of other circumstances.

The EU Benchmarks Regulation applies to the contribution of input data to a benchmark, the administration of a benchmark and the use of a benchmark in the EU. Amongst other things, the EU Benchmarks Regulation requires EU benchmark administrators to be authorised or registered as such and to comply with extensive requirements relating to benchmark administration. It also prohibits, subject to transitional provisions, certain uses by EU supervised entities of (a) benchmarks provided by EU administrators which are not authorised or registered in accordance with the EU Benchmarks Regulation and (b) benchmarks provided by non-EU administrators where (i) the non-EU administrator is not authorised or registered in a jurisdiction with a regulatory regime that has been determined to be "equivalent" to that of the EU in accordance with the EU Benchmarks Regulation, (ii) the administrator has not been recognised in accordance with the EU Benchmarks Regulation, and (iii) the benchmark has not been endorsed in accordance with the EU Benchmarks Regulation.

The UK Benchmarks Regulation contains substantially the same provisions as the EU Benchmarks Regulation, but has a narrower geographical scope. The UK Benchmarks Regulation applies to the contribution of input data to a benchmark, the administration of a benchmark, and the use of a benchmark in the United Kingdom.

ESMA maintains a public register of EU-approved benchmark administrators and non-EU benchmarks pursuant to the EU Benchmarks Regulation (the "**ESMA Register**"). Benchmarks and benchmark administrators which were approved by the FCA prior to 31 December 2020 were removed from the ESMA Register on 1 January 2021.

Since 1 January 2021, the FCA has maintained a separate public register of FCA-approved benchmark administrators and non-UK benchmarks pursuant to the UK Benchmarks Regulation (the "**UK Register**"). The UK Register includes benchmark administrators and benchmarks which were approved by the FCA prior to 31 December 2020.

The EU Benchmarks Regulation and the UK Benchmarks Regulation could have a material impact on CDs linked to a benchmark rate or index. For example:

- a benchmark could be prohibited from being used in the EU if (subject to applicable transitional provisions) (a) its administrator is based in the EU and is not authorised or registered in accordance with the EU Benchmarks Regulation, or (b) its administrator (i) is based in a non-EU jurisdiction which does not satisfy the "equivalence" conditions and (ii) is not "recognised" under the EU Benchmarks Regulation pending such a decision, and the benchmark has not been "endorsed" in accordance with the EU Benchmarks Regulation. In such case, depending on the particular benchmark and the applicable terms of the CDs, the CDs could be de-listed, adjusted, redeemed prior to maturity or otherwise impacted;
- similarly, a benchmark could be prohibited from being used in the United Kingdom if (subject to applicable transitional provisions) (a) its administrator is based in the United Kingdom and is not authorised or registered in accordance with the UK Benchmarks Regulation, or (b) its administrator (i) is based in a non-UK jurisdiction which does not satisfy the "equivalence" conditions and (ii) is not "recognised" under the UK Benchmarks Regulation pending such a decision, and the benchmark has not been "endorsed" in accordance with the UK Benchmarks Regulation. In such case, depending on the particular benchmark and the applicable terms of the CDs, the CDs could be de-listed, adjusted, redeemed prior to maturity or otherwise impacted; and
- the methodology or other terms of the benchmark could be changed in order to comply with the terms of the applicable Benchmarks Regulation, and such changes could reduce or increase the rate or level or affect the volatility of the published rate or level, and could lead to adjustments

to the terms of the CDs, including Calculation Agent determination of the rate or level in its discretion.

Ongoing national and international regulatory reforms and the increased regulatory scrutiny of benchmarks generally could increase the costs and risks of administering or otherwise participating in the setting of a benchmark and complying with any applicable regulations or requirements. Such factors may discourage market participants from continuing to administer or contribute to benchmarks, trigger changes in the rules or methodologies used in respect of benchmarks, and/or lead to the disappearance of benchmarks. This could result in (i) the substitution of replacement rates for such benchmark(s), (ii) adjustments to the terms of the relevant CDs, (iii) discretionary valuation of the rate by the Calculation Agent, (iv) delisting of the relevant CDs and/or (v) other consequences for CDs linked to any such benchmark(s). Any such consequence could have a material adverse effect on the value of and return on any CDs linked to, referencing, or otherwise dependent (in whole or in part) upon, a benchmark.

Specifically, regulatory authorities and central banks have identified 'risk free rates' to replace IBORs, such as LIBOR and EURIBOR, as primary benchmarks. This includes (amongst others) (i) for GBP LIBOR, the Sterling Overnight Index Average ("**SONIA**"), (ii) for USD LIBOR, the Secured Overnight Financing Rate ("**SOFR**"), (iii) for EURIBOR and EONIA, the Euro Short-Term Rate ("**€STR**" or "**EuroSTR**"), (iv) for CHF LIBOR, the Swiss Average Rate Overnight ("**SARON**") and (v) for JPY LIBOR, the Tokyo Overnight Average Rate ("**TONA**"). The reform and replacement of IBORs with risk-free rates may cause the relevant IBOR to perform differently than in the past, to disappear entirely, or have other consequences which cannot be predicted. These risk-free rates may have a different methodology and other important differences from the IBORs they have replaced or will replace. Any of these developments could have a material adverse effect on the value of and return on CDs linked to any such rates.

2. Risks related to certain product terms or features

Risks associated with CDs that reference overnight risk-free rates as the Reference Rate.

The market continues to develop with respect to overnight risk-free rates (including SONIA, SOFR, €STR or EuroSTR, SARON, TONA, the Hong Kong Dollar Overnight Index Average ("**HONIA**"), the Singapore Overnight Rate Average ("**SORA**") or the Reserve Bank of Australia's Interbank Overnight Cash Rate ("**AONIA**") ("**Overnight Risk-Free Rates**") as reference rates in the capital markets and their adoption as an alternative to their respective IBOR counterparts. In particular, whilst CDs may be issued under the Programme that reference the Overnight Risk-Free Rates using a compounded in arrear or weighted average formula, it is possible that the market or a significant part thereof may adopt a different application of such rate. The key terms to calculate and determine the applicable reference rate in respect of the Overnight Risk-Free Rates, such as for example the compounding structure applied (if any), the use of term rates (if any), the spread over the index reflected in interest rate provisions or the applicable observation method, may evolve over time in the debt capital markets and trading prices of CDs that reference an Overnight Risk-Free Rate as the Reference Rate may be lower than those of later-issued indexed debt securities as a result.

Interest on CDs which reference an Overnight Risk-Free Rate as the Reference Rate is only capable of being determined at the end of an observation period and shortly prior to the relevant interest payment date. It may therefore be difficult (if not impossible) for investors in CDs which reference an Overnight Risk-Free Rate as the Reference Rate to reliably estimate the amount of interest which will be payable on such CDs. Some investors may be unable or unwilling to trade such CDs without changes to their information technology or other operational systems, which could adversely impact their liquidity. Further, if the CDs become due and payable prior to their stated maturity, the rate of interest payable shall be determined on the date the CDs became due and payable and shall not be reset thereafter.

The manner of adoption or application of the Overnight Risk-Free Rates as reference rates in the debt capital markets may differ materially compared with the application and adoption of such Overnight Risk-Free Rates in other markets, such as the derivatives and loan markets. Investors should carefully consider how any mismatch across these markets may impact any hedging or other financial arrangements which they may put in place in connection with any acquisition, holding or disposal of CDs referencing an Overnight Risk-Free Rate.

Further, the composition and characteristics of the Overnight Risk-Free Rates are not the same and are different from the composition and characteristics of their respective IBOR counterparts. For example, the Overnight Risk-Free Rates are backward-looking overnight rates measuring the rate paid by banks on overnight wholesale funds, compared to IBORs which are forward-looking term rates measuring the cost of borrowing for a future period. Certain Overnight Risk-Free Rates, such as SONIA, €STR and TONA, are unsecured overnight rates, whereas others, such as SOFR, are secured overnight rates. As a result, there can be no assurance that the Overnight Risk-Free Rates (or any term reference rate derived on any of them) will perform in the same way as their respective IBOR counterparts would have at any time, including, without limitation, as a result of changes in interest and yield rates in the market, market volatility or global or regional economic, financial, political, regulatory, judicial or other events.

Because the Overnight Risk-Free Rates are published based on data received from a variety of sources, the Issuer has no control over their methods of calculation, publication schedule, rate revision practices or availability at any time without notice. There can be no guarantee, particularly given the relatively recent introduction and publication of these rates and their adoption as replacements for their respective IBOR counterparts, that these rates will not be discontinued or fundamentally altered in a manner that is materially adverse to the interests of investors in the CDs that reference an Overnight Risk-Free Rate as the Reference Rate. If the manner in which the Overnight Risk-Free Rates are calculated is changed, that change may result in a reduction of the amount of interest payable on the CDs and the trading prices of the CDs.

In addition, the administrators of Overnight Risk-Free Rates (such as the Bank of England (in the case of SONIA), the Federal Reserve Bank of New York (in the case of SOFR) or the European Central Bank (in the case of €STR), as the case may be) may withdraw, modify or amend published data relating to relevant rate in its sole discretion and without notice. In respect of any floating rate CDs for which "Screen Rate Determination" is specified as being applicable in the applicable Final Terms, the interest rate under the CDs for any day will not be adjusted for any modifications or amendments to data that the Bank of England, the Federal Reserve Bank of New York or the European Central Bank (as the case may be) may publish after the interest rate for that day has been determined. Equally, although the Bank of England, the Federal Reserve Bank of New York and the European Central Bank publish historical data (or historical indicative data) in respect of SONIA, SOFR and €STR respectively, investors should not rely on any historical changes or trends in SONIA, SOFR or €STR as an indicator of future changes in such rates.

Furthermore, since the Overnight Risk-Free Rates are relatively new reference rates, CDs that reference an Overnight Risk-Free Rate as the Reference Rate may not have an established trading market and an established trading market may not develop or may not be very liquid. Similarly, if the Overnight Risk-Free Rates do not prove to be widely used in securities like the CDs, the trading price of the CDs that reference an Overnight Risk-Free Rate as the Reference Rate may be lower than those of CDs linked to reference rates that are more widely used. Investors in CDs that reference an Overnight Risk-Free Rate as the Reference Rate may not be able to sell such CDs at all or may not be able to sell such CDs at prices that will provide them with a yield comparable to similar investments that have a developed secondary market, and may consequently suffer from increased pricing volatility and market risk.

Risks relating to CDs that reference EURIBOR as the Reference Rate

If, in respect of CDs that reference EURIBOR as the Reference Rate, the Calculation Agent determines that EURIBOR has been discontinued or has otherwise ceased to exist, the Calculation Agent shall select a substitute or successor rate of interest to replace it. The substitute rate selected shall be the rate that the Calculation Agent determines to be most comparable to the original reference rate, except that if the Calculation Agent determines that there is an industry-accepted substitute or successor rate of interest, it will select such rate of interest. The Calculation Agent may also apply such adjustments as it determines to be appropriate. The disappearance of a rate could have other potential consequences in relation to the CDs.

Risks relating to floating rate CDs that reference the 2021 ISDA Interest Rate Derivative Definitions

If, in respect of floating rate CDs in respect of which the Reference Rate is to be determined by reference to the 2021 ISDA Interest Rate Derivative Definitions, the Calculation Agent determines that a Temporary Non-Publication Trigger or a Permanent Cessation Trigger has occurred in relation to the relevant Reference Rate, the Calculation Agent shall apply the relevant provisions of the 2021 ISDA

Interest Rate Derivative Definitions and Matrices (as defined in the 2021 ISDA Interest Rate Derivative Definitions), as amended, in the relevant terms and conditions of the CD, in order to determine the appropriate fallback rate that may be used to calculate the relevant reference rate or to select a replacement or substitute reference rate. The temporary unavailability or permanent cessation of any such Reference Rate may result in a different reference rate being used to determine the interest amount payable under such CDs.

Extendible CDs may be redeemed after their initial Maturity Date and the interest rates may alter.

The initial Maturity Date of extendible CDs may be extended automatically until an Extended Maturity Date as specified in the Final Terms. The payment of the unpaid amount may be automatically deferred and will become due and payable on the applicable Extended Maturity Date if so specified in the relevant Final Terms. In addition, the provisions relating to interest payable relating to the extendible CDs may differ from the initial CDs.

Extendible CDs are subject to restrictions on transfer.

If the Issuer exercises its Issuer Extension Option, the relevant Extendible A CDs or Extendible B CDs will be non-transferable in the period between the relevant Exercise Deadline and the relevant Extension Date.

DOCUMENTS INCORPORATED BY REFERENCE

This document should be read and construed in conjunction with each supplement to this Base Prospectus and the documents incorporated by reference into this Base Prospectus.

The following documents, which have previously been published and have been filed with the CSSF and the Luxembourg Stock Exchange, shall be deemed to be incorporated by reference in, and to form part of, this Base Prospectus:

1. the strategic report, directors' report and audited financial statements of the Issuer for the period ended 31 December 2020 (<https://www.goldmansachs.com/investor-relations/financials/current/subsidiary-financial-info/gsib/gsib-12-31-2020-financial-statements.pdf>)
2. the strategic report, directors' report and audited financial statements of the Issuer for the year ended 31 December 2021 (<https://www.goldmansachs.com/investor-relations/financials/subsidiary-financial-info/gsib/2021/gsib-12-31-2021-financial-statements.pdf>)

Cross-Reference List

Goldman Sachs International Bank ("GSIB") Information in the Financial Statements	GSIB 2021 Financial Statement	GSIB 2020 Financial Statement
Strategic Report	p. 2-5	p. 2-15
Directors' Report	p. 6-12	p. 16-21
Balance Sheet	p. 20	p. 31
Statement of Comprehensive Income	p. 19	p. 30
Statement of Cash Flows*	p. 22	p. 33
Notes to Financial Statements	p. 23-63	p. 34-75
Independent Auditor's Report	p. 13-18	p. 22-29
Statement of Changes in Equity	p. 21	p. 32

* Note that the Issuer is a greater than 90 per cent. subsidiary of the Group, Inc., whose consolidated accounts include the Issuer and are publicly available and is, therefore, exempt from preparing a cash flow statement as required by FRS1.

During the period ended 31 December 2020, the Issuer changed its accounting reference date from 30 November to 31 December. Therefore, the Issuer's 2020 strategic report, directors' report and audited financial statements have been prepared to cover the 13 months ended 31 December 2020, with comparative information being presented for the 12 months ended 30 November 2019. Accordingly, it may be the case that certain amounts presented in the Issuer's financial statements for the period ended 31 December 2020 are not directly comparable.

The Issuer's Financial Statements Prepared in Accordance with IFRS

The Issuer's audited financial statements for the period ended 31 December 2020 and the financial year ended 31 December 2021, which are incorporated by reference into this Base Prospectus, have been prepared in accordance with UK-adopted International Financial Reporting Standards ("IFRS") as adopted pursuant to Regulation (EC) No 1606/2002 as it applies in the European Union.

Any information included in the documents incorporated by reference that is not included in the cross-reference list above is not incorporated by reference into this Base Prospectus and is considered to be either not relevant for an investor or is otherwise covered elsewhere in this Base Prospectus. Any information on the Issuer's website does not form part of the Base Prospectus and has not been scrutinised or approved by the competent authority unless incorporated by reference into this Base Prospectus.

Investors who have not previously reviewed the information contained in the above documents should do so in connection with their evaluation of any CDs. Any statement contained in a document or the relevant portion of which is incorporated by reference into this Base Prospectus, shall be deemed to be

modified or superseded for the purpose of this Base Prospectus to the extent that a statement contained in this Base Prospectus or in any supplement to this Base Prospectus filed under Article 23 of the EU Prospectus Regulation, including any documents incorporated therein by reference, modifies or supersedes such earlier statement (whether expressly, by implication or otherwise). The documents incorporated by reference will be available on the Luxembourg Stock Exchange's website (www.luxse.com).

This Base Prospectus shall remain valid for a period of 12 months after its approval until March 2024 for admissions to trading on a regulated market, provided that it is completed by any supplement required pursuant to the EU Prospectus Regulation. The obligation to supplement a prospectus in the event of significant new factors, material mistakes or material inaccuracies does not apply when a prospectus is no longer valid.

DESCRIPTION OF THE ISSUER

Legal name	Goldman Sachs International Bank
Legal form/status	The Issuer is an unlimited liability company incorporated in England and Wales and operating under the laws of England and Wales.
Date of incorporation/ establishment	12 July 1973, under the name First International Bancshares Limited.
Registered office	Plumtree Court 25 Shoe Lane London EC4A 4AU United Kingdom
Registration number and place of registration	The Issuer is incorporated in England and Wales with company number 01122503.
Issuer's mission	As stated in article 2 of its articles of association, the Issuer's objects are unrestricted and include the power to carry on the business of banking in all its aspects and in all parts of the world, including acting as investment and financial advisor, receiving monies on deposit and providing credit (with or without security) to such persons and on such terms as it may elect.
Brief description of current activities	<p>The Issuer is involved in lending and deposit-taking activities, securities lending and acts as a primary dealer for European government bonds. In March 2018, the Issuer's European government bond market-making activities were transferred to a group undertaking and in September 2018 the Issuer launched a digital deposit platform in the UK, <i>Marcus: by Goldman Sachs</i>. The Issuer further continues to focus on the expansion of its lending and deposit-taking activities while remaining a primary dealer for European government bonds.</p> <p>The Issuer's principal office is in the UK, but the Issuer also operates branches in Germany (the Frankfurt branch), which is involved in lending activities, and South Africa (the Johannesburg branch), which is involved in client execution activities. The Issuer also has a representative office in China (the Beijing rep office). Please see further "Additional Information on the Issuer" on pages 35 to 28 of this Base Prospectus.</p>
Shareholder's equity (31 December 2021)	US\$ in millions
	Share capital 63
	Share premium account 2,094
	Retained earnings 1,420
	Accumulated other comprehensive income (74)
	Total shareholder's equity 3,503
List of main shareholders	The Issuer is a wholly-owned subsidiary of Goldman Sachs Group UK Limited, a company incorporated and registered in England and Wales. The ultimate parent company of the Issuer

is The Goldman Sachs Group, Inc. ("**Group, Inc.**"), a company incorporated in the United States of America.

Listing of the shares of the Issuer Not applicable.

Composition of governing bodies and supervisory bodies Board of Directors

The directors of the Issuer and their principal activities outside the Issuer are set out as below. The business address of each director is Plumtree Court, 25 Shoe Lane, London EC4A 4AU, United Kingdom.

<u>Name</u>	<u>Position</u>	<u>Positions outside the Issuer</u>
Nigel Harman	Director	Chartered Accountant
Therese Lynn Miller	Director	Lawyer
Catherine Gail Cripps	Director	Investment Manager
Samuel Phillip Gyimah	Director	Director
Nirubhan Pathmanabhan	Director	Banker
Alexander Simon Golten	Director	Chief Market Risk Officer
Richard John Gnodde	Director	Investment Banker
Sir Bradley Fried	Director	Director
Lisa Anne Donnelly	Director	Director

Conflicts of Interest

There are no existing or potential conflicts of interest between any duties of the directors of the Issuer and their private interest and other duties.

Rating of the Issuer

<i>Rating Agency</i>	<i>Long Term Rating</i>	<i>Short Term Rating</i>
S&P	A+	A-1
Fitch	A+	F1
Moody's	A1	P-1

Additional Information on the Issuer

Goldman Sachs International Bank is a private unlimited company and is incorporated and domiciled in England and Wales, with company registration number 01122503, and registered address Plumtree Court, 25 Shoe Lane, London EC4A 4AU, United Kingdom, telephone number +44 20 7774 1000. The Issuer was formed as an English company on 12 July 1973, under the name First International Bancshares Limited. The Issuer does not maintain a website.

The Issuer's primary regulators are the Prudential Regulation Authority and the FCA.

As at the financial year ended 31 December 2021, the Issuer reports its business activities as a single operating segment.

No significant change in the Issuer's principal activities is expected.

Organisational Structure

The Issuer's immediate parent undertaking is Goldman Sachs Group UK Limited ("**GSG UK**"), a company incorporated and domiciled in England and Wales. The ultimate parent undertaking and controlling entity of the Issuer is Group, Inc., a bank holding company and a financial holding company regulated by the Board of Governors of the Federal Reserve System ("**Federal Reserve Board**"). Group, Inc., together with its consolidated subsidiaries, form GS Group. GS Group is a leading global investment banking, securities and investment management firm that provides a wide range of financial services to a substantial and diversified client base that includes corporations, financial institutions, governments and individuals. GS Group has a presence in Europe, the Middle East and Africa ("**EMEA**") through a number of subsidiaries, including the Issuer.

Trend Information

Global

The Russian invasion of Ukraine in February 2022 has led to significant disruption in financial markets and increased uncertainty in the business environment in which GS Group operates. The future impact of the war on GS Group's operational and financial performance remains difficult to predict at this time.

As at the time of this Base Prospectus, there continues to be uncertainty regarding the impact of the COVID-19 pandemic. The extent of the impact will depend on future developments including the duration of the pandemic and potential future variants.

Litigation

The Issuer is not nor has it been involved in any governmental, legal or arbitration proceedings (including any proceedings which are pending or threatened of which the Issuer is aware) during the 12 months prior to the date of this Base Prospectus which may have, or have had in the recent past, significant effects on the Issuer's financial position or profitability. In the foregoing statement required by the Prospectus Regulation, references to the "financial position or profitability" of the Issuer are specifically to the ability of the Issuer to meet its full payment obligations under the CDs in a timely manner. Material information about the Issuer's financial position and profitability are included in the audited financial statements of the Issuer for the period ended 31 December 2020 and the audited financial statements of the Issuer for the year ended 31 December 2021, which are incorporated by reference into this Base Prospectus.

Material Contracts

The Issuer has not entered into any material contracts which are not in the ordinary course of the Issuer's business, and which could result in the Issuer being under an obligation or entitlement that is material to the Issuer's ability to meet its obligations to holders of the CDs.

Overview of Financial Information

The financial information set out below has been extracted from (as applicable) the audited financial statements of the Issuer for the period ended 31 December 2020 which have been audited by PricewaterhouseCoopers LLP and on which PricewaterhouseCoopers LLP has issued an unqualified audit report, and the audited financial statements of the Issuer for the year ended 31 December 2021 which have been audited by Mazars LLP and on which Mazars LLP has issued an unqualified audit report.

Auditors

The statutory financial statements of the Issuer for the period ended 31 December 2020 have been audited without qualification by PricewaterhouseCoopers LLP, Chartered Accountants and Statutory Auditors, 1 Embankment Place London WC2N 6RH, United Kingdom in accordance with the laws of England.

PricewaterhouseCoopers LLP is a registered member of the Institute of Chartered Accountants in England and Wales.

The statutory financial statements of the Issuer for the year ended 31 December 2021 have been audited without qualification by Mazars LLP, Chartered Accountants and Statutory Auditors, Tower Bridge House, St Katharine's Dock, London E1W 1DD, United Kingdom in accordance with the laws of England. Mazars LLP is a registered member of the Institute of Chartered Accountants in England and Wales.

SELECTED FINANCIAL INFORMATION

The following tables set out in summary form the consolidated income statement and balance of the Issuer for the financial year ended 31 December 2021 and the period ended 31 December 2020. Such information is extracted (without material adjustment) from, and is qualified by reference to and should be read in conjunction with, the audited financial statement of the Issuer for the financial year ended 31 December 2021 and the period ended 31 December 2020, which are incorporated by reference in this Base Prospectus.

Income Statement

	Year ended 31 December 2021 US\$ in millions	Period ended 31 December 2020 US\$ in millions
Interest income from financial instruments measured at fair value through profit or loss	346	538
Interest income from financial instruments measured at fair value through other comprehensive income	6	1
Interest income from financial instruments measured at amortised cost	340	381
Interest expense from financial instruments measured at fair value through profit or loss	(101)	(180)
Interest expense from financial instruments measured at amortised cost	(217)	(418)
Net interest income	374	322
Gains or losses from financial instruments at fair value through profit or loss	(75)	111
Fees and commissions	102	62
Non-interest income	27	173
NET REVENUES	401	495
Impairments on financial instruments	89	(147)
Operating expenses	(207)	(149)
PROFIT BEFORE TAXATION	283	199
Income tax expense	(82)	(57)
PROFIT / (LOSS) FOR THE FINANCIAL PERIOD	201	142

Statement of Comprehensive Income

	Year ended 31 December 2021	Period ended 31 December 2020
	US\$ in millions	US\$ in millions
Profit for the financial period	201	142
OTHER COMPREHENSIVE INCOME		
ITEMS THAT WILL NOT BE RECLASSIFIED SUBSEQUENTLY TO PROFIT OR LOSS		
Debt valuation adjustment	14	(19)
UK deferred tax attributable to components of other comprehensive income	(4)	5
TOTAL ITEMS THAT WILL NOT BE RECLASSIFIED SUBSEQUENTLY TO PROFIT OR LOSS	10	(14)
)
ITEMS THAT WILL BE RECLASSIFIED SUBSEQUENTLY TO PROFIT OR LOSS		
Translation gains / (losses) and net investment hedges	1	(1)
Gains / (losses) from financial instruments measured at fair value through other comprehensive income	(95)	9
U.K. deferred tax attributable to the components of other comprehensive income	25	(2)
TOTAL ITEMS THAT WILL BE RECLASSIFIED SUBSEQUENTLY TO PROFIT OR LOSS	(69)	6
OTHER COMPREHENSIVE INCOME / (LOSS) FOR THE FINANCIAL YEAR, NET OF TAX	(59)	(8)
TOTAL COMPREHENSIVE INCOME FOR THE FINANCIAL PERIOD	142	134

Balance Sheet

	As of 31 December 2021 US\$ in millions	As of 31 December 2020 US\$ in millions
ASSETS		
Cash and cash equivalents	9,901	10,082
Customer and other receivables	292	720
Collateralised agreements	55,190	32,880
Trading assets	3,227	1,689
Loans	11,800	10,463
Investments	5,080	2,970
Other assets	1,032	960
TOTAL ASSETS	86,522	59,773
LIABILITIES		
Collateralised financings	234	219
Customer and other payables	252	459
Trading liabilities	826	1,221
Deposits	79,635	52,799
Unsecured borrowings	1,896	1,555
Other liabilities	176	159
TOTAL LIABILITIES	83,019	56,412
SHAREHOLDER'S EQUITY		
Share capital	63	63
Share premium account	2,094	2,094
Retained earnings	1,420	1,219
Accumulated other comprehensive income	(74)	(15)
TOTAL SHAREHOLDER'S EQUITY	3,503	3,361
TOTAL LIABILITIES AND SHAREHOLDER'S EQUITY	86,522	59,773

INFORMATION CONCERNING THE ISSUER'S REQUEST FOR A STEP LABEL

An application to obtain a STEP label for this Programme will be made to the STEP Secretariat in relation to the A CDs eligible under the STEP Market Convention. Information as to whether the STEP label has been granted for this Programme may be made available on the STEP market website (www.stepmarket.org).

This website is not sponsored by the Issuer and the Issuer is not responsible for its content or availability.

Unless otherwise specified in this Base Prospectus, the expressions "STEP", "STEP Market Convention", "STEP label", "STEP Secretariat", and "STEP market website" shall have the meaning assigned to them in the Market Convention on Short-Term European Paper dated 19 May 2015 and adopted by Euribor-ACI – the Financial Markets Association and the European Money Markets Institute (as amended from time to time).

CERTIFICATION OF INFORMATION

Person responsible for the Base Prospectus Goldman Sachs International Bank, represented by Richard Taylor.

Declaration of the person(s) responsible for Base Prospectus The Issuer certifies that, to the best of its knowledge, the information contained in the Base Prospectus and its supplements, if any, is in accordance with the facts and the Base Prospectus makes no omission likely to affect its import, and does not contain any misrepresentation that would make it misleading.

Date, Place of Signature, Signature 9 March 2023, London



Name: Kyle Williams

Title: Managing Director

TERMS AND CONDITIONS OF THE A CDS

Each A CD issued under the Programme will be subject to the following terms and conditions that, subject to completion and amendment and as supplemented or varied in accordance with the applicable Final Terms, shall be applicable to bearer A CDs in definitive form (if any) issued in exchange for a Global A CD representing the relevant issue of A CDs. The applicable Final Terms will be attached to each Global A CD and each bearer A CD in definitive form. The following terms and conditions of A CDs must be read in conjunction with this Base Prospectus and the relevant Global A CD and the Final Terms attached thereto:

Issue Price The Issue Price of each A CD will be specified in the applicable Final Terms.

The Issue Price in respect of other A CDs of a series might be different from the Issue Price set forth in the applicable Final Terms due to the prevailing market conditions or any other relevant factors.

Issue Date In relation to any A CDs, the Business Day on which such A CDs are issued under the Programme and on which cash payments are due to be made by the subscribers of the A CDs to the Issuer and, unless stated in the Final Terms (if applicable), on which an A CD starts to yield interest.

Interest Rate A CDs issued under the Programme may accrue interest on a fixed rate basis, a floating rate basis or be non-interest bearing A CDs.

Fixed Rate A CDs

The Interest Rate payable from time to time in respect of A CDs issued on a fixed rate basis will be specified in the applicable Final Terms.

Floating Rate A CDs

The Interest Rate payable from time to time in respect of A CDs issued on a floating rate basis will be determined in the manner specified in the applicable Final Terms and the provisions below.

Screen Rate Determination:

In respect of A CDs issued on a floating rate basis in respect of which Screen Rate Determination is specified in the applicable Final Terms, the Reference Rate shall be either:

- (i) the Euro Interbank Offered Rate ("**EURIBOR**");
- (ii) SOFR (as defined below);
- (iii) SONIA (as defined below); or
- (iv) €STR (as defined below),

or any other reference rate as may be selected by the Issuer, in each case, as specified in the applicable Final Terms.

The Interest Rate for each Interest Period will be the rate determined by the Calculation Agent and as specified in the applicable Final Terms for the Reference Rate (a) (in the case of A CDs where the Reference Rate is specified in the applicable Final Terms as EURIBOR) which appears on the Relevant Screen Page as at 11:00 a.m. (Brussels time) on the day that is two TARGET Banking Days preceding the Interest Reset Date; or (b) (in the case of A CDs where the Reference Rate is specified in the applicable Final Terms as SOFR, SONIA or €STR), as determined

in accordance with the following provisions, in each case, plus or minus the spread (if any) specified in the applicable Final Terms.

If, in the case of A CDs where the Reference Rate is specified in the applicable Final Terms as EURIBOR, such rate does not appear on the Relevant Screen Page, the Interest Rate will be the rate as determined by the Calculation Agent on the basis of the rates at which deposits in euro are offered by the Reference Banks at approximately 11:00 a.m. (Brussels time) on the day that is two TARGET Banking Days preceding the Interest Reset Date to prime banks in, the Euro-zone inter-bank market for a period equal to that which would have been used for the Reference Rate, commencing on the Interest Reset Date and in a Representative Amount. The Calculation Agent will request the principal Euro-zone office of each of the Reference Banks to provide a quotation of its rate. If at least two such quotations are provided, the Interest Rate for that Interest Reset Date will be the arithmetic mean of the quotations. If fewer than two quotations are provided as requested, the Interest Rate for that Interest Reset Date will be the arithmetic mean of the rates quoted by major banks in New York City, selected by the Calculation Agent, at approximately 11:00 a.m. (New York City time) on the Interest Reset Date for loans in euro to leading European banks for a period equal to that which would have been used for the Reference Rate, commencing on the Interest Reset Date and in a Representative Amount.

In respect of A CDs where the applicable Final Terms specify that the Reference Rate is SOFR, SONIA or €STR, the Interest Rate for each Interest Period will be the rate determined by the Calculation Agent and as specified in the applicable Final Terms as follows plus or minus the spread (if any) specified in the applicable Final Terms:

- A. Where the Calculation Method is specified in the applicable Final Terms as being "Compounded Daily (Non-Index Determination)", the Reference Rate for each Interest Period will, subject as provided below, be the Compounded Daily Reference Rate, as determined by the Calculation Agent.

As used in this provision:

"**Compounded Daily Reference Rate**" means, with respect to an Interest Period, the rate of return of a daily compound interest investment (with SOFR, SONIA or €STR as the Reference Rate for the calculation of interest as specified in the applicable Final Terms), which will be calculated by the Calculation Agent, as at the relevant Reference Rate Determination Date as follows, and the resulting percentage will be rounded, if necessary, (in the case of SONIA) to the fourth decimal place, with 0.00005 being rounded upwards and (in the case of SOFR or €STR) to the fifth decimal place, with 0.000005 being rounded upwards:

$$\left[\prod_{i=1}^{d_0} \left(1 + \frac{r_i - p^{BD} \times n_i}{D} \right) \right] \times \frac{D}{d}$$

where:

"**Business Day**" or "**BD**" means (i) where "SOFR" is specified as the Reference Rate in the applicable Final Terms, a US Government Securities Business Day; (ii) where "SONIA" is specified as the Reference Rate in the applicable Final Terms, a London Banking Day; and (iii) where "€STR" is specified as the

Reference Rate in the applicable Final Terms, a TARGET Banking Day;

"**D**" is the number specified in the applicable Final Terms;

"**d**" means (where "Lag" or "Lock-out" is specified in the applicable Final Terms as the Observation Method) the number of calendar days in the relevant Interest Period or (where "Shift" is specified in the applicable Final Terms as the Observation Method) the number of calendar days in the relevant Observation Period;

"**d_o**" means (where "Lag" or "Lock-out" is specified in the applicable Final Terms as the Observation Method) the number of Business Days in the relevant Interest Period, or (where "Shift" is specified in the applicable Final Terms as the Observation Method) the number of Business Days in the relevant Observation Period;

"**ECB's Website**" means the website of the European Central Bank currently at <http://www.ecb.europa.eu>, or any successor website officially designated by the European Central Bank (any information on the ECB's website does not form part of the Base Prospectus and has not been scrutinised or approved by the competent authority unless incorporated by reference into the Base Prospectus);

"**€STR**" means, in respect of any Business Day, a reference rate equal to the daily euro short-term rate as provided by the European Central Bank, as administrator of such rate (or any successor administrator of such rate), on the ECB's Website, in each case on or before 9:00 a.m. (Central European Time) on the Business Day immediately following such Business Day;

"**i**" means a series of whole numbers from one to "d₀," each representing the relevant Business Day in chronological order from, and including, the first Business Day (where "Lag" or "Lock-out" is specified in the applicable Final Terms as the Observation Method) in the relevant Interest Period or (where "Shift" is specified in the applicable Final Terms as the Observation Method) in the relevant Observation Period;

"**London Banking Day**" means any day on which commercial banks are open for general business (including dealing in foreign exchange and foreign currency deposits) in London;

"**n_i**" means, for any Business Day "i", the number of calendar days from, and including, such Business Day "i" up to, but excluding, the following Business Day;

"**New York Fed's Website**" means the website of the Federal Reserve Bank of New York currently at <http://www.newyorkfed.org>, or any successor website officially designated by the Federal Reserve Bank of New York (any information on the New York Fed's website or any successor website does not form part of the Base Prospectus and has not been scrutinised or approved by the competent authority unless incorporated by reference into the Base Prospectus);

"**Observation Period**" means, in respect of an Interest Period, the period from, and including, the date which is "p" Business Days prior to the first day of the relevant Interest Period (and the first Interest Period shall begin on, and include, the Issue Date) and

ending on, but excluding, the date which is "p" Business Days prior to the Interest Payment Date for such Interest Period (or the date falling "p" Business Days prior to such earlier date, if any, on which the applicable Global A CD becomes due and payable);

"**p**" means, for any Interest Period (unless otherwise specified in the applicable Final Terms):

- a) where "Lag" or "Shift" is specified as the Observation Method in the applicable Final Terms, the number of Business Days included in the Observation Look-back Period specified in the applicable Final Terms (or, if no such number is specified, five Business Days); or
- b) where "Lock-out" is specified as the Observation Method in the applicable Final Terms, zero;

"**Reference Rate Determination Date**" means the date falling "p" Business Days prior to each Interest Reset Date;

"**r**" means:

- a) where "Lag" or "Shift" is specified as the Observation Method in the applicable Final Terms, in respect of any Business Day, the Reference Rate in respect of such Business Day;
- b) where "Lock-out" is specified as the Observation Method in the applicable Final Terms, in respect of any Business Day "i" falling in the relevant Interest Period, the Reference Rate for the Business Day immediately preceding such day; and in respect of any Business Day "i" falling on or after the "Lock-out Date" specified in the applicable Final Terms (or, where no "Lock-out Date" is specified, five Business Days prior to each Interest Reset Date), the Reference Rate in respect of the Business Day immediately preceding the last Business Day in the relevant Interest Period (such last Business Day coinciding with the relevant Reference Rate Determination Date);

" **r_{i-p}^{BD}** " means, in relation to any Interest Period, the applicable Reference Rate as set out in the definition of "r" above for, where "Lag" is specified as the Observation Method in the applicable Final Terms, the Business Day (being a Business Day falling in the relevant Observation Period) falling "p" Business Days prior to the relevant Business Day "i" or, where "Lock-out" or "Shift" is specified as the Observation Method in the applicable Final Terms, the relevant Business Day "i";

"**SOFR**" means, in respect of any Business Day, a reference rate equal to the daily Secured Overnight Financing Rate as provided by the Federal Reserve Bank of New York ("**New York Fed**"), as the administrator of such rate (or any successor administrator of such rate) on the New York Fed's Website, in each case on or about 5:00 p.m. (New York City Time) on the Business Day immediately following such Business Day;

"**SONIA**" means, in respect of any Business Day, a reference rate equal to the daily Sterling Overnight Index Average for such Business Day as provided by the administrator of SONIA to authorised distributors and as then published on the Relevant Screen Page or, if the Relevant Screen Page is unavailable, as otherwise published by such authorised distributors, in each case

on the Business Day immediately following such Business Day;
and

"**US Government Securities Business Day**" means any day except for a Saturday, Sunday or a day on which the Securities Industry and Financial Markets Association recommends that the fixed income departments of its members be closed for the entire day for purposes of trading in U.S. government securities.

- B. Where the Calculation Method is specified in the applicable Final Terms as being "Weighted Average", the Reference Rate for each Interest Period will, subject as provided below, be the Weighted Average Reference Rate, as determined by the Calculation Agent.

As used in this provision:

"**Weighted Average Reference Rate**" means, with respect to any Interest Period, the arithmetic mean of SOFR, SONIA or €STR in effect during such Interest Period as specified in the applicable Final Terms, which will be calculated by the Calculation Agent as at the relevant Reference Rate Determination Date as follows, and the resulting percentage will be rounded, if necessary, (in the case of SONIA) to the fourth decimal place, with 0.00005 being rounded upwards and (in the case of SOFR or €STR) to the fifth decimal place, with 0.000005 being rounded upwards:

$$\left[\sum_{i=1}^{d_o} \left(\frac{r_i - p^{BD} \times n_i}{D} \right) \right] \times \frac{D}{d}$$

where:

"**Business Day**", "**BD**", "**D**", "**d**", "**d_o**", "**i**", "**n**" and "**p**" have the meanings given to them in the provision relating to "Compounded Daily Reference Rate" specified above;

"**r_{i-p^{BD}}**" means (unless otherwise specified in the applicable Final Terms):

- a) (where "Lag" is specified as the Observation Method in the applicable Final Terms) in respect of any Business Day "**i**" falling in the relevant Interest Period, the relevant Reference Rate for the Business Day falling "**p**" Business Days prior to such day "**i**";
- b) (where "Lock-out" is specified as the Observation Method in the applicable Final Terms) the Reference Rate determined in accordance with paragraph a) above, except that in respect of each Business Day "**i**" falling on or after the "Lock-out Date" specified in the applicable Final Terms (or, where no "Lock-out Date" is specified, five Business Days prior to each Interest Reset Date) until the end of each relevant Interest Period, the relevant Reference Rate determined in accordance with paragraph a) above in respect of such "Lock-out Date"; and
- c) (where "Shift" is specified as the Observation Method in the applicable Final Terms) in respect of any Business Day "**i**" falling in the relevant Observation Period, the relevant Reference Rate in respect of such day "**i**"; and

"Reference Rate Determination Date" means (unless otherwise defined in the applicable Final Terms) the date falling five Business Days prior to each Interest Payment Date.

- C. Where "SOFR" is specified as the Reference Rate in the applicable Final Terms and the Calculation Method is specified in the applicable Final Terms as being "Compounded Daily (Non-Index Determination)", if, in respect of any Business Day, the Calculation Agent determines the Reference Rate is not available, such Reference Rate shall be SOFR for the first preceding Business Day on which SOFR was published on the Relevant Screen Page and "r" shall be interpreted accordingly.
- D. Where "SONIA" is specified as the Reference Rate in the applicable Final Terms and the Calculation Method is specified in the applicable Final Terms as being "Compounded Daily (Non-Index Determination)", if, in respect of any Business Day in the relevant Interest Period or Observation Period, the Calculation Agent determines SONIA is not available on the Relevant Screen Page and has not otherwise been published by the relevant authorised distributors, such Reference Rate shall be:
- a) (i) the Bank of England's Bank Rate (the "**Bank Rate**") prevailing at 5:00 p.m. (London time) on the relevant Business Day; plus (ii) the mean of the spread of SONIA to the Bank Rate over the previous five days on which SONIA has been published, excluding the highest spread (or, if there is more than one highest spread, one only of those highest spreads) and lowest spread (or, if there is more than one lowest spread, one only of those lowest spreads) to the Bank Rate; or
 - b) if such Bank Rate is not available, SONIA published on the Relevant Screen Page (or otherwise published by the relevant authorised distributors) for the first preceding Business Day on which SONIA was published on the Relevant Screen Page (or otherwise published by the relevant authorised distributors),
- and, in each case, "r" shall be interpreted accordingly.
- E. Where "€STR" is specified as the Reference Rate in the applicable Final Terms and the Calculation Method is specified in the applicable Final Terms as being "Compounded Daily (Non-Index Determination)", if, in respect of any Business Day, the Calculation Agent determines the Reference Rate is not available, such Reference Rate shall be €STR for the first preceding Business Day on which €STR was published on the Relevant Screen Page and "r" shall be interpreted accordingly.
- F. In the event that the Reference Rate cannot be determined in accordance with the foregoing provisions, the Reference Rate shall be (i) that determined as at the last preceding Reference Rate Determination Date to which the foregoing provisions shall have applied or (ii) if there is no such preceding Reference Rate Determination Date, the initial Reference Rate which would have been applicable to the relevant A CDs for the first Interest Period had the relevant A CDs been in issue for a period equal in duration to the scheduled first Interest Period but ending on (and excluding) the Issue Date.
- G. Where the Calculation Method is specified in the applicable Final Terms as being "Compounded Daily (Index Determination)", the

Reference Rate for each Interest Period will, subject as provided below, be the Compounded Daily Reference Rate, as determined by the Calculation Agent.

As used in this provision:

"Compounded Daily Reference Rate" means, with respect to an Interest Period, the rate of return of a daily compound interest investment (with SOFR or SONIA as the Reference Rate for the calculation of interest as specified in the applicable Final Terms), which will be calculated by the Calculation Agent, as at the relevant Reference Rate Determination Date as follows, and the resulting percentage will be rounded, if necessary, (in the case of SONIA) to the fourth decimal place, with 0.00005 being rounded upwards and (in the case of SOFR) to the fifth decimal place, with 0.000005 being rounded upwards:

$$\left(\frac{\text{Reference Rate Compounded Index}_{\text{End}}}{\text{Reference Rate Compounded Index}_{\text{Start}}} - 1 \right) \times \frac{D}{d}$$

where:

"Business Day" or **"BD"** means (i) where "SOFR" is specified as the Reference Rate in the applicable Final Terms, a US Government Securities Business Day; and (ii) where "SONIA" is specified as the Reference Rate in the applicable Final Terms, a London Banking Day;

"D" is the number specified in the applicable Final Terms;

"d" means the number of calendar days from (and including) the day in relation to which Reference Rate Compounded Index_{Start} is determined to (but excluding) the day in relation to which Reference Rate Compounded Index_{End} is determined;

"London Banking Day" means any day on which commercial banks are open for general business (including dealing in foreign exchange and foreign currency deposits) in London;

"p" means, for any Interest Period (unless otherwise specified in the applicable Final Terms) five Business Days;

"Reference Rate Compounded Index" means:

- (i) where "SONIA" is specified as the Reference Rate and the Calculation Method is specified as "Compounded Daily (Index Determination)" in the applicable Final Terms, the screen rate or index for compounded daily SONIA rates administered by the administrator of the SONIA reference rate that is published or displayed by such administrator or other information service from time to time on the relevant Reference Rate Determination Date, as further specified in the applicable Final Terms; and
- (ii) where "SOFR" is specified as the Reference Rate and the Calculation Method is specified as "Compounded Daily (Index Determination)" in the applicable Final Terms, with respect to any U.S. Government Securities Business Day, the SOFR index value as published by the administrator of the SOFR reference rate as such index appears on the New

York Fed's Website at or around 3.00 p.m. (New York time) on such US Government Securities Business Day;

"Reference Rate Compounded Index_{Start}" means, with respect to an Interest Period, the Reference Rate Compounded Index determined in relation to the day falling the Relevant Number of Business Days prior to the first day of such Interest Period;

"Reference Rate Compounded Index_{End}" means, with respect to an Interest Period, the Reference Rate Compounded Index determined in relation to the day falling the Relevant Number of Business Days prior to (A) the Interest Payment Date for such Interest Period, or (B) such other date on which the relevant payment of interest falls due (but which by its definition or the operation of the relevant provisions is excluded from such Interest Period);

"Reference Rate Determination Date" means the date falling "p" Business Days prior to each Interest Reset Date;

"Relevant Number" means the number specified as such in the applicable Final Terms (or, if no such number is specified, five); and

"US Government Securities Business Day" means any day except for a Saturday, Sunday or a day on which the Securities Industry and Financial Markets Association recommends that the fixed income departments of its members be closed for the entire day for purposes of trading in U.S. government securities.

If the relevant Reference Rate Compounded Index is not published or displayed by the administrator of the Reference Rate or other information service by i) in respect of the SONIA reference rate, 5.00 p.m. (London time); or ii) in respect of the SOFR reference rate, 3.00 p.m. (New York time) (or, in each case, if later, by the time falling one hour after the customary or scheduled time for publication thereof in accordance with the then-prevailing operational procedures of the administrator of the Reference Rate or of such other information service, as the case may be) on the relevant Reference Rate Determination Date, the Compounded Daily Reference Rate for the applicable Interest Period for which the Reference Rate Compounded Index is not available shall be "Compounded Daily Reference Rate" determined as set out under the section entitled "Compounded Daily Reference Rate (Non-Index Determination)" above and as if "Compounded Daily (Non-Index Determination)" were specified in the applicable Final Terms as the Calculation Method, and for these purposes: (i) the "Observation Method" shall be deemed to be "Shift" and (ii) the "Observation Look-Back Period" shall be deemed to be equal to the Relevant Number of Business Days, as if those alternative elections had been made in the applicable Final Terms.

If the Global A CD becomes due and payable prior to their Maturity Date, the final Reference Rate Determination Date shall be deemed to be the date on which the relevant Global A CD became due and payable and the Reference Rate on such Global A CD shall, for so long as such Global A CD remains outstanding, be that determined on such date.

For the purposes of this provision, unless the context otherwise requires, the following defined terms shall have the meanings set out below:

"TARGET Banking Day" means any day on which TARGET2 (the Trans-European Automated Real-time Gross Settlement Express Transfer system) (or any successor or replacement transfer system, as determined by the Issuer) is open for the settlement of payments in Euro.

"Interest Reset Date" means, with respect to an Interest Period, the first day of that Interest Period, as specified in the applicable Final Terms.

"London Banking Day" means any day on which commercial banks are open for general business (including dealings in foreign exchange and foreign currency deposits) in London, England.

"Reference Banks" means, in the case of a determination of EURIBOR, the principal Euro-zone office of four major banks in the Euro-zone inter-bank market, in each case selected by the Calculation Agent or as specified in the applicable Final Terms.

"Relevant Screen Page" means such page, section, caption, column or other part of a particular information service as may be specified in the applicable Final Terms, including any successor or replacement page, section, caption, column or other part of a particular information service.

"Representative Amount" means an amount that is representative for a single transaction in the relevant market at the relevant time.

"Specified Currency" means the currency specified as such in the applicable Final Terms.

The Issuer will procure that a notice specifying the Interest Rate payable in respect of each Interest Period be published as soon as practicable after the determination of the Interest Rate. Such notice will be delivered to the clearing systems.

ISDA Determination:

Overnight Rates:

For A CDs issued on a floating rate basis in respect of which the applicable Final Terms specify ISDA Determination and Overnight Rates as being applicable and the Reference Rate is either:

- (i) GBP-SONIA;
- (ii) USD-SOFR;
- (iii) EUR-EuroSTR;
- (iv) CHF-SARON;
- (v) HKD-HONIA;
- (vi) JPY-TONA;
- (vii) SGD-SORA;
- (viii) AUD-AONIA;
- (ix) USD-Federal Funds; or

- (x) any other overnight reference rate selected by the Issuer that is designated an Overnight Rate in the Floating Rate Matrix,

(sub-paragraphs (i) to (ix) above as defined in the 2021 ISDA Definitions) the Interest Rate from time to time will be determined in accordance with the provisions below.

The Interest Rate for each Interest Period will be the rate determined by the Calculation Agent as the Reference Rate specified in the applicable Final Terms and determined in accordance with the following provisions plus or minus the spread (if any) specified in the applicable Final Terms:

- A. Where GBP-SONIA is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is SONIA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for GBP-SONIA in the Compounding/Averaging Matrix;
- B. Where USD-SOFR is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is SOFR, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for USD-SOFR in the Compounding/Averaging Matrix;
- C. Where CHF-SARON is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is SARON, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for CHF-SARON in the Compounding/Averaging Matrix;
- D. Where EUR-EuroSTR is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is EuroSTR, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for EUR-EuroSTR in the Compounding/Averaging Matrix;
- E. Where HKD-HONIA is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is HONIA, and the

resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for HKD-HONIA in the Compounding/Averaging Matrix;

- F. Where JPY-TONA is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is TONA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for JPY-TONA in the Compounding/Averaging Matrix;
- G. Where SGD-SORA is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is SORA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for SGD-SORA in the Compounding/Averaging Matrix;
- H. Where AUD-AONIA is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is AONIA and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for AUD-AONIA in the Compounding/Averaging Matrix;
- I. Where USD-Federal Funds is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is the EFFR, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for USD-Federal Funds in the Compounding/Averaging Matrix; and
- J. Where any other overnight reference rate is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is the relevant overnight reference rate specified in the Floating Rate Matrix, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for such overnight reference rate in the Compounding/Averaging Matrix.

The Issuer will procure that a notice specifying the Interest Rate payable in respect of each Interest Period be published as soon as practicable

after the determination of the Interest Rate. Such notice shall be delivered to the Relevant Clearing Systems.

If, in respect of any Reference Rate specified above, a Temporary Non-Publication Trigger or a Permanent Cessation Trigger occurs in respect of such Reference Rate, the Calculation Agent shall determine the applicable Reference Rate in accordance with the Temporary Non-Publication Fallback or the Permanent Cessation Fallback (as the case may be) specified in the Floating Rate Matrix to be applicable to such Reference Rate.

In this provision:

"2021 ISDA Definitions" means the version of the 2021 ISDA Interest Rate Derivative Definitions, including each Matrix (and any successor matrix), as published by the International Swaps and Derivatives Association, Inc. (or any successor) on its website (www.isda.org) as at the Issue Date provided that (i) references to a "Confirmation" in the 2021 ISDA Definitions should instead be read as references to the applicable Final Terms; and (ii) references to a "Calculation Period" in the 2021 ISDA Definitions should instead be read as references to an "Interest Period" and "Administrator/Benchmark Event" in the 2021 ISDA Definitions shall be disappplied; and

"Reference Rate Determination Date" means the number of Applicable Business Days, Observation Period Shift Business Days or Lockout Period Business Days, as applicable, as specified in the applicable Final Terms prior to the Interest Reset Date.

Capitalised terms used but not otherwise defined in this provision shall bear the meaning given to them in the 2021 ISDA Definitions.

Term Rates:

For A CDs issued on a floating rate basis in respect of which the applicable Final Terms specify ISDA Determination and Term Rates as being applicable and the Reference Rate is either:

- (i) EUR-EURIBOR;
- (ii) AUD-BBSW;
- (iii) HKD-HIBOR;
- (iv) JPY-TIBOR;
- (v) SGD-SIBOR; or
- (vi) any other term reference rate selected by the Issuer that is designated a Term Rate in the Floating Rate Matrix,

(sub-paragraphs (i) to (vi) above as defined in the 2021 ISDA Definitions) the Interest Rate from time to time will be determined in accordance with the provisions below.

The Interest Rate for each Interest Period will be the rate determined by the Calculation Agent as the Reference Rate specified in the applicable Final Terms and determined in accordance with the following provisions plus or minus the spread (if any) specified in the applicable Final Terms:

- A. Where EUR-EURIBOR shall be determined by the Calculation Agent in accordance with the 2021 ISDA Definitions as if (i) the Reset Date was the first day of the relevant Interest Period and (ii) the Designated Maturity was the number of months equal to the Interest Period specified in the applicable Final Terms;
- B. Where AUD-BBSW shall be determined by the Calculation Agent in accordance with the 2021 ISDA Definitions as if (i) the Reset Date was the first day of the relevant Interest Period and (ii) the Designated Maturity was the number of months equal to the Interest Period specified in the applicable Final Terms;
- C. Where HKD-HIBOR shall be determined by the Calculation Agent in accordance with the 2021 ISDA Definitions as if (i) the Reset Date was the first day of the relevant Interest Period and (ii) the Designated Maturity was the number of months equal to the Interest Period specified in the applicable Final Terms;
- D. Where JPY-TIBOR shall be determined by the Calculation Agent in accordance with the 2021 ISDA Definitions as if (i) the Reset Date was the first day of the relevant Interest Period and (ii) the Designated Maturity was the number of months equal to the Interest Period specified in the applicable Final Terms;
- E. Where SGD-SIBOR shall be determined by the Calculation Agent in accordance with the 2021 ISDA Definitions as if (i) the Reset Date was the first day of the relevant Interest Period and (ii) the Designated Maturity was the number of months equal to the Interest Period specified in the applicable Final Terms; and
- F. Where any other term reference rate is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent in accordance with the 2021 ISDA Definitions as if (i) the Reset Date was the first day of the relevant Interest Period and (ii) the Designated Maturity was the number of months equal to the Interest Period specified in the applicable Final Terms,

provided that where a Temporary Non-Publication Trigger occurs in respect of the relevant above-mentioned Reference Rate, the Temporary Non-Publication Fallback for such rate as applicable under the Floating Rate Matrix shall be amended such that the reference to "Calculation Agent Alternative Rate Determination" shall be replaced by "Temporary Non-Publication Fallback – Previous Day's Rate".

The Issuer will procure that a notice specifying the Interest Rate payable in respect of each Interest Period be published as soon as practicable after the determination of the Interest Rate. Such notice shall be delivered to the Relevant Clearing Systems.

If, in respect of any Reference Rate specified above, a Temporary Non-Publication Trigger or a Permanent Cessation Trigger occurs in respect of such Reference Rate, the Calculation Agent shall, subject as provided immediately above, determine the applicable Reference Rate in accordance with the Temporary Non-Publication Fallback or the Permanent Cessation Fallback (as the case may be) specified in the Floating Rate Matrix to be applicable to such Reference Rate.

In this provision, "**2021 ISDA Definitions**" means the version of the 2021 ISDA Interest Rate Derivative Definitions, including each Matrix (and any successor matrix), as published by the International Swaps and Derivatives Association, Inc. (or any successor) on its website

(www.isda.org) as at the Issue Date provided that (i) references to a "Confirmation" in the 2021 ISDA Definitions should instead be read as references to the applicable Final Terms; and (ii) references to a "Calculation Period" in the 2021 ISDA Definitions should instead be read as references to an "Interest Period" and "Administrator/Benchmark Event" in the 2021 ISDA Definitions shall be disappplied.

Capitalised terms used but not otherwise defined in this provision shall bear the meaning given to them in the 2021 ISDA Definitions.

OIS Compounding Rates:

For A CDs issued on a floating rate basis in respect of which the applicable Final Terms specify ISDA Determination and OIS Compound Rates as being applicable and the Reference Rate is either:

- (i) AUD-AONIA-OIS Compound;
- (ii) CHF-SARON-OIS Compound;
- (iii) EUR-EuroSTR-OIS Compound;
- (iv) GBP-SONIA-OIS Compound;
- (v) HKD-HONIA-OIS Compound;
- (vi) JPY-TONA-OIS Compound;
- (vii) SGD-SORA-OIS Compound;
- (viii) USD-Federal Funds-OIS Compound;
- (ix) USD-SOFR-OIS Compound; or
- (x) any other OIS compounding reference rate selected by the Issuer and designated an OIS Compounding rate in the Floating Rate Matrix,

(sub-paragraphs (i) to (ix) above as defined in the 2021 ISDA Definitions) the Interest Rate from time to time will be calculated in accordance with the provisions below.

The Interest Rate for each Interest Period will be the rate determined by the Calculation Agent as the Reference Rate specified in the applicable Final Terms and determined in accordance with the following provisions plus or minus the spread (if any) specified in the applicable Final Terms:

- A. Where AUD-AONIA-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is AONIA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for AUD-AONIA-OIS Compound in the Compounding/Averaging Matrix;
- B. Where CHF-SARON-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the

Underlying Benchmark is SARON, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for CHF-SARON-OIS Compound in the Compounding/Averaging Matrix;

- C. Where EUR-EuroSTR-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is EuroSTR, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for EUR-EuroSTR-OIS Compound in the Compounding/Averaging Matrix;
- D. Where GBP-SONIA-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is SONIA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for GBP-SONIA-OIS Compound in the Compounding/Averaging Matrix;
- E. Where HKD-HONIA-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is HONIA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for HKD-HONIA-OIS Compound in the Compounding/Averaging Matrix;
- F. Where JPY-TONA-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is TONA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for JPY-TONA-OIS Compound in the Compounding/Averaging Matrix;
- G. Where SGD-SORA-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is SORA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for SGD-SORA-OIS Compound in the Compounding/Averaging Matrix;
- H. Where USD-Federal Funds-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is the EFFR, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for USD-Federal Funds-OIS Compound in the Compounding/Averaging Matrix;

- I. Where USD-SOFR-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is SOFR, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for USD-SOFR-OIS Compound in the Compounding/Averaging Matrix; and
- J. Where any other OIS compounding rate is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is the relevant overnight OIS compounding rate specified in the Floating Rate Matrix, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for such OIS compounding rate in the Compounding/Averaging Matrix.

The Issuer will procure that a notice specifying the Interest Rate payable in respect of each Interest Period be published as soon as practicable after the determination of the Interest Rate. Such notice shall be delivered to the Relevant Clearing Systems.

If, in respect of any Reference Rate specified above, a Temporary Non-Publication Trigger or a Permanent Cessation Trigger occurs in respect of such Reference Rate, the Calculation Agent shall determine the applicable Reference Rate in accordance with the Temporary Non-Publication Fallback or the Permanent Cessation Fallback (as the case may be) specified in the Floating Rate Matrix to be applicable to such Reference Rate.

In this provision:

"2021 ISDA Definitions" means the version of the 2021 ISDA Interest Rate Derivative Definitions, including each Matrix (and any successor matrix), as published by the International Swaps and Derivatives Association, Inc. (or any successor) on its website (www.isda.org) as at the Issue Date provided that (i) references to a "Confirmation" in the 2021 ISDA Definitions should instead be read as references to the applicable Final Terms; and (ii) references to a "Calculation Period" in the 2021 ISDA Definitions should instead be read as references to Calculation Period specified in the applicable Final Terms and "Administrator/Benchmark Event" in the 2021 ISDA Definitions shall be disappplied; and

"Reference Rate Determination Date" means the number of Applicable Business Days specified in the applicable Final Terms prior to the Interest Reset Date.

Capitalised terms used but not otherwise defined in this provision shall bear the meaning given to them in the 2021 ISDA Definitions.

Substitute or Successor Rate of Interest where the Reference Rate is EURIBOR

If, in respect of A CDs where the Reference Rate specified in the applicable Final Terms is EURIBOR and Screen Rate Determination applies, the Calculation Agent determines that the Reference Rate has been discontinued or has otherwise ceased to exist, the Calculation Agent shall, in its sole and absolute discretion, select a substitute or successor rate of interest that the Calculation Agent determines is most

comparable to the Reference Rate to replace the Reference Rate (provided that if the Calculation Agent determines that there is an industry-accepted substitute or successor rate of interest, then the Calculation Agent shall select such substitute or successor rate of interest), and shall replace the Reference Rate by such substitute or successor rate of interest with effect from such date as determined by the Calculation Agent, and such substitute or successor rate of interest will be deemed to be the Reference Rate with effect from such date. The Calculation Agent may make such adjustments that it determines to be appropriate, if any, to any one or more of the terms of the A CDs, including without limitation, any variable or term relevant to the settlement or payment under the A CDs, as the Calculation Agent determines appropriate to account for such replacement and make such substitute or successor rate of interest comparable to the Reference Rate, in a manner that is consistent with industry-accepted practices for such substitute or successor rate of interest.

Calculation Agent	Goldman Sachs International.
Interest Commencement Date	The Issue Date or as otherwise specified in the Final Terms.
Interest Period	The period from and including the Interest Commencement Date for the A CDs to but excluding the first Interest Payment Date for the A CDs, and each successive period from and including the first day following the end of the preceding Interest Period to but excluding the following Interest Payment Date until the principal of the A CDs is paid or made available for payment. An Interest Period may be adjusted or unadjusted.
Business Day	A day other than a Saturday, Sunday, or other day on which commercial banking institutions are authorised or required by law to close in London or such other business centre as the applicable Final Terms shall specify.
Day Count Fraction	<p>In respect of the calculation of an amount of interest for any Interest Period:</p> <ul style="list-style-type: none">(i) if "<i>I/I (ISDA)</i>" is specified in the applicable Final Terms, 1;(ii) if "<i>Actual/Actual (ISDA)</i>" is specified in the applicable Final Terms, the actual number of days in the Interest Period divided by 365 (or, if any portion of the Interest Period falls in a leap year, the sum of (A) the actual number of days in that portion of the Interest Period falling in a leap year divided by 366 and (B) the actual number of days in that portion of the Interest Period falling in a non-leap year divided by 365);(iii) if "<i>Actual/Actual (ICMA)</i>" is specified in the applicable Final Terms, the number of days in the Interest Period, including 29 February in a leap year, divided by the product of (1) the actual number of days in such Interest Period and (2) the number of Interest Periods in any year;(iv) if "<i>Actual/Actual (Bond)</i>" is specified in the applicable Final Terms, the number of calendar days in the Interest Period, divided by the number of calendar days in the Interest Period multiplied by the number of Interest Periods in the calendar year;

- (v) if "*Actual/Actual (Euro)*" is specified in the applicable Final Terms, the number of calendar days in the Interest Period divided by 365, or if the Interest Period includes 29 February, 366;
- (vi) if "*Actual/365 (Fixed)*" is specified in the applicable Final Terms, the actual number of days in the Interest Period divided by 365;
- (vii) if "*Actual/360 (ISMA)*" or "*Actual/360 (ICMA)*" is specified in the applicable Final Terms, the actual number of days in the Interest Period divided by 360;
- (viii) if "*30/360 (ISDA)*" is specified in the applicable Final Terms, the number of days in the Interest Period in respect of which payment is being made divided by 360, calculated on a formula basis as follows:

Day Count Fraction =

$$\frac{[360 \times (Y_2 - Y_1)] + [30 \times (M_2 - M_1)] + [D_2 - D_1]}{360}$$

where:

"*Y₁*" is the year, expressed as a number, in which the first day of the Interest Period falls;

"*Y₂*" is the year, expressed as a number, in which the day immediately following the last day included in the Interest Period falls;

"*M₁*" is the calendar month, expressed as a number, in which the day immediately following the last day included in the Interest Period falls;

"*M₂*" is the calendar month, expressed as a number, in which the day immediately following the last day included in the Interest Period falls;

"*D₁*" is the first calendar day, expressed as a number, immediately following the last day included in the Interest Period, unless such number would be 31 and *D₁* is greater than 29, in which case *D₂* will be 30.

Interest Amount Payable Interest due on each Interest Payment Date will be an amount equal to the product of (a) the aggregate nominal amount of A CDs outstanding on the first day of the Interest Period, (b) the Day Count Fraction, and (c) the Interest Rate as specified in the applicable Final Terms. Interest due will be rounded up or down as specified in the applicable Final Terms, in such units as specified in the applicable Final Terms.

Interest Payment Date Each date specified as such in the applicable Final Terms.

Business Day Convention If any Interest Payment Date is specified to be subject to adjustment in accordance with a Business Day Convention that would otherwise fall on a day that is not a Business Day, then, if the Business Day Convention specified in the applicable Final Terms is:

- (a) (in the case of A CDs issued on a floating rate basis only) the Floating Rate Business Day Convention, the Interest Payment Date will be postponed to the next day that is a Business Day

unless it would thereby fall into the next calendar month, in which event (x) such date will be brought forward to the immediately preceding Business Day and (y) each subsequent such date will be the last Business Day of the month in which such date would have fallen had it not been subject to adjustment;

- (b) the Following Business Day Convention, such Interest Payment Date will be postponed to the next day that is a Business Day;
- (c) the Modified Following Business Day Convention, such date will be postponed to the next day that is a Business Day unless it would thereby fall into the next calendar month, in which event such date shall be brought forward to the immediately preceding Business Day; or
- (d) the Preceding Business Day Convention, such date will be brought forward to the immediately preceding Business Day.

Payments on non-Business Days If any date for payment in respect of any A CD is not a Business Day, payment shall not be made until the next following Business Day and no interest or other sum in respect of such postponed payment shall be due to the investor.

Discount A CDs Fixed rate A CDs and floating rate A CDs may be original issue Discount A CDs. A CDs of this type are issued at a price lower than their principal amount and provide that, upon redemption, their principal amount will be payable. Original issue Discount A CDs may be zero coupon A CDs.

Premium A CDs Fixed rate A CDs and floating rate A CDs may be original issue Premium A CDs. A CDs of this type are issued at a price higher than their principal amount and provide that, upon redemption, their principal amount will be repayable. Original issue Premium A CDs may be zero coupon A CDs.

Nominal Amount The principal amount or the par value of an A CD, exclusive of premium or interest payable by the Issuer at the Maturity Date of such A CD..

Scheduled Redemption Unless previously redeemed, or purchased and cancelled or extended, each A CD will be redeemed by the Issuer at 100 per cent. of the Nominal Amount on the Maturity Date set out in the applicable Final Terms.

Redemption at the Option of the Issuer The Issuer will not be entitled to redeem an A CD before its Maturity Date, or in the case of Extendible A CDs, its Final Maturity Date, unless the applicable Final Terms specifies a redemption commencement date (the "**Redemption Commencement Date**"). If an A CD specifies a Redemption Commencement Date, it will also specify one or more redemption prices, which may be expressed as a percentage of the principal amount of the A CD. An A CD may also specify one or more redemption periods during which the specified redemption prices relating to a redemption of A CDs during those periods will apply. The minimum redemption price will be 100 per cent. of the Nominal Amount.

If an A CD specifies a Redemption Commencement Date, such A CD will be redeemable at the option of the Issuer, in whole or in part, at any time on or after that date or at a specified time or times. If the Issuer

redeems an A CD, it will do so at the specified redemption price, together with any interest accrued to the redemption date. If different prices are specified for different redemption periods, the price paid by the Issuer will be the price that applies to the redemption period during which such A CD is redeemed.

Redemption upon Change in Law The Issuer will have the option to redeem an A CD as a result of certain developments involving a change in law (including a change in tax law). The Issuer will have the option to redeem an A CD if, as a result of any change in UK tax treatment, the Issuer would be required to pay an additional amount as described in paragraph 6 of the Global A CD or it is or will become unlawful for the Issuer to perform any of its obligations under the A CDs. The redemption price in these circumstances will be 100 per cent. of the Nominal Amount.

If the Issuer exercises an option to redeem any A CD, it will give to the holder written notice of the principal amount of the A CD to be redeemed, not less than 35 days before the applicable redemption date. In addition, the Issuer will notify the Luxembourg Stock Exchange of any redemption of A CDs.

Purchase The Issuer or its affiliates may purchase A CDs from investors who are willing to sell from time to time, either in the open market at prevailing prices or in private transactions at negotiated prices, subject to the Secondary Market terms below. A CDs that the Issuer or its affiliates purchase may, at the Issuer's discretion, be held, resold or cancelled.

Secondary Market The Issuer and its affiliates will not make a market in the A CDs after the initial offering. Neither the Issuer nor any other affiliate of the Issuer will have any obligation to make a market in the A CDs after the initial offering and purchase and sell the A CDs as principal and any such market-making, if commenced, may be discontinued at any time without notice. There can be no assurance that the A CDs offered hereby will not be sold or that there will be a secondary market for the A CDs. Even if a secondary market develops, the secondary market price received in exchange for the A CDs may be less than the Issue Price for such A CDs. Any purchases or sales of A CDs by the Issuer will be as principal.

Prescription Claims for principal and interest shall become void unless the relevant A CDs are presented for payment within ten years of the appropriate maturity date.

Currencies of issue of the A CDs A CDs may be denominated in euro, Sterling, US dollars or any other currency subject to compliance with any applicable legal and regulatory requirements.

Maturity of the A CDs The tenor of the A CDs shall be 364 days or less from and including the date of issue to but excluding the Final Maturity Date, subject to compliance with any applicable legal and regulatory requirements.

Extendible A CDs The initial Maturity Date of the A CDs will be specified in the applicable Final Terms. The Final Terms may provide that on the initial Maturity Date and such other date or dates specified (each, an "*Extension Date*"), the Issuer has the option to extend the initial Maturity Date of the A CDs (the "*Issuer Extension Option*") to such date or dates as shall be provided in the applicable Final Terms (each, an "*Extended Maturity Date*") (such A CDs, "*Extendible A CDs*"). Any such Extended Maturity Date shall in no event exceed a maximum

maturity of 364 days from and including the date of issue (the "**Final Maturity Date**").

If the Final Terms provide that the relevant series of the A CDs are Extendible A CDs, such Extendible A CDs will be unlisted.

If the Final Terms provide that the relevant series of the A CDs are Extendible A CDs, each time the Issuer elects to exercise the Issuer Extension Option, the Issuer is required to deliver a notice of extension (an "**Extension Notice**") to the Relevant Clearing System (through the Agent) by no later than 5.00 p.m. (London time) on the date specified in the Final Terms (each, an "**Extension Notice Date**"), for communication by the Relevant Clearing System to the holders of the Extendible A CDs, informing holders of the A CDs that the Issuer will be exercising the Issuer Extension Option.

Each Extension Notice shall contain the following information:

- confirmation that the Issuer will be exercising the Issuer Extension Option;
- the applicable Extended Maturity Date;
- the applicable Exercise Deadline (as defined below);
- the applicable interest rate for the period between the initial Maturity Date and the applicable Extended Maturity Date (the "**Extended Interest Rate**"); and
- the form of Exercise Notice (as defined below).

If the Issuer does not exercise its Issuer Extension Option on any Extension Date, the Extendible A CDs will be redeemed on the then current Maturity Date.

If the Issuer fails to publish an Extension Notice on an Extension Notice Date, then each holder of Extendible A CDs will be deemed to have exercised its Non-Extension Option, the then current Maturity Date shall not be extended and the Extendible A CDs will be redeemed on the then current Maturity Date.

If the Issuer exercises its Issuer Extension Option, each holder of Extendible A CDs has the option not to extend the then current Maturity Date in respect of some or all of those Extendible A CDs (the "**Non-Extension Option**"), in which case the then current Maturity Date shall not be extended in respect of those Extendible A CDs the subject of the Non-Extension Option and the relevant Extendible A CDs shall be redeemed on the then current Maturity Date. In order to exercise its Non-Extension Option in respect of some or all of those Extendible A CDs, the holder of the Extendible A CDs must deliver a duly completed option exercise notice (the "**Exercise Notice**") in the form annexed to the applicable Extension Notice by no later than 5.00 p.m. (London time) on the date specified in the Final Terms (the "**Exercise Deadline**") to the Relevant Clearing System for communication by the Relevant Clearing System through the Agent to the Issuer.

There will be a minimum of 10 Business Days between each Extension Notice Date and applicable Exercise Deadline unless otherwise agreed with the Relevant Clearing System.

Upon delivery to the Relevant Clearing System, an Exercise Notice shall be revocable until the applicable Exercise Deadline, at which time

such notice will become irrevocable and binding upon the holder, or any transferee of such holder, of the Extendible A CDs.

If a holder of Extendible A CDs delivers an Exercise Notice in respect of part only of its holding of Extendible A CDs, the principal amount of such partial holding of Extendible A CDs (the "**Maturing A CDs**") will become due and payable on the then current Maturity Date. The aggregate principal amount of the Maturing A CDs will be represented by a new Global A CD to be issued on the applicable Extension Date, provided that any such principal amount of the Maturing A CDs will not be less than EUR 100,000 (or the equivalent in any other currency). The Maturing A CDs represented by the new Global A CD will be unlisted. The new Global A CD so issued will have the same terms as the A CDs, except that it will not be extendible, will have a separate International Securities Identification Number ("**ISIN**") and a separate Common Code and its maturity date will be the then current Maturity Date. The outstanding principal amount of such Extendible A CDs shall be reduced by the amount of the Maturing A CDs with effect from the applicable Extension Date, provided that any such principal amount of the outstanding Extendible A CDs will not be less than EUR 100,000 (or the equivalent in any other currency).

If a holder of Extendible A CDs does not deliver an Exercise Notice prior to the applicable Exercise Deadline, the then current Maturity Date shall be extended automatically to the next following Extended Maturity Date and interest from the then current Maturity Date will continue to accrue on the Extendible A CDs at the Extended Interest Rate and shall be payable on the applicable Extended Maturity Date.

If the Issuer exercises its Issuer Extension Option and the holder of Extendible A CDs exercises its Non-Extension Option, the relevant Extendible A CDs will be non-transferable in the period between the relevant Exercise Deadline and the relevant Extension Date. For the avoidance of doubt, no restrictions on transfer will exist during this period for the holders of the Extendible A CDs who have not exercised its Non-Extension Option.

Minimum Issuance Amount	At least EUR 100,000 (or the equivalent in any other currency).
Minimum denomination of the A CDs	The minimum denomination of each A CD will be EUR 100,000 (or the equivalent in any other currency) unless otherwise specified in the applicable Final Terms and integral multiples of amounts as specified in the applicable Final Terms (subject in each case to compliance with all applicable legal and regulatory requirements).
Status of the A CDs	The A CDs shall represent direct, unconditional, unsubordinated and unsecured obligations of the Issuer and shall at all times rank <i>pari passu</i> with all other present and future unsubordinated and unsecured obligations for funds borrowed or guaranteed by the Issuer (other than in the case of obligations preferred by mandatory provisions of law).
Governing law that applies to the A CDs	The A CDs, and any non-contractual obligations arising out of or in connection with the A CDs, will be governed by, and construed in accordance with, English law.

The Issuer has agreed for the exclusive benefit of the bearer of an A CD that the courts of England are to have jurisdiction to settle any disputes which may arise out of or in connection with an A CD (including a dispute relating to any non-contractual obligations arising out of or in connection with an A CD) and that accordingly any suit, action or

proceedings (together, "**Proceedings**") arising out of or in connection with an A CD (including Proceedings relating to any non-contractual obligations arising out of or in connection with an A CD) may be brought in such courts. The Issuer irrevocably waives any objection which it may have had or will have to the laying of the venue of any such Proceedings in any such court and any claim that any such Proceedings have been brought in an inconvenient forum and further irrevocably agrees that a judgment in any such proceedings brought in the English courts shall be conclusive and binding upon it and may be enforced in the courts of any other jurisdiction. This waiver has been made for the benefit of each of the holders of A CDs and shall not limit any right to take Proceedings against the Issuer in any other court of competent jurisdiction, nor shall the taking of Proceedings in one or more jurisdictions preclude the taking of Proceedings in any other jurisdiction, whether concurrently or not.

Issuing and Paying Agent Deutsche Bank AG, London Branch.

Notices

In relation to the A CDs which are admitted to listing on the Official List and to trading on the regulated market of the Luxembourg Stock Exchange as the rules of that stock exchange so require, notices to the holders of A CDs shall be validly given if published in the *Luxemburger Wort*, being a leading newspaper having general circulation in Luxembourg, or through publication on the website of the Luxembourg Stock Exchange (www.luxse.com).

Notices to the Issuer will be made to its office by mail or telefax and addressed for the attention of the person designated by it for that purpose as set out below:

Goldman Sachs International Bank
Plumtree Court
25 Shoe Lane
London, EC4A 4AU
United Kingdom

Attn: Chirag D. Patel

TERMS AND CONDITIONS OF THE B CDs

Each B CD issued under the Programme will be subject to the following terms and conditions that, subject to completion in accordance with the applicable Final Terms, shall be applicable to bearer B CDs in definitive form (if any) issued in exchange for a Global B CD representing the relevant issue of B CDs. The applicable Final Terms will be attached to each Global B CD and each bearer B CD in definitive form. The following terms and conditions of B CDs must be read in conjunction with this Base Prospectus and the relevant Global B CD and the Final Terms attached thereto:

Issue Price The Issue Price of each B CD will be specified in the applicable Final Terms.

The Issue Price in respect of other B CDs of a series might be different from the Issue Price set forth in the applicable Final Terms due to the prevailing market conditions or any other relevant factors.

Issue Date In relation to any B CDs, the Business Day on which such B CDs are issued under the Programme and on which cash payments are due to be made by the subscribers of the B CDs to the Issuer and, unless stated in the Final Terms (if applicable), on which a B CD starts to yield interest.

Interest Rate B CDs issued under the Programme may accrue interest on a fixed rate basis, a floating rate basis or be non-interest bearing B CDs.

Fixed Rate B CDs

The Interest Rate payable from time to time in respect of B CDs issued on a fixed rate basis will be specified in the applicable Final Terms.

Floating Rate B CDs

The Interest Rate payable from time to time in respect of B CDs issued on a floating rate basis will be determined in the manner specified in the applicable Final Terms and the provisions below.

Screen Rate Determination:

In respect of B CDs issued on a floating rate basis in respect of which Screen Rate Determination is specified in the applicable Final Terms, the Reference Rate shall be either:

- (i) the Euro Interbank Offered Rate ("EURIBOR");
- (ii) SOFR (as defined below);
- (iii) SONIA (as defined below); or
- (iv) €STR (as defined below),

The Interest Rate for each Interest Period will be the rate determined by the Calculation Agent and as specified in the applicable Final Terms for the Reference Rate (a) (in the case of B CDs where the Reference Rate is specified in the applicable Final Terms as EURIBOR) which appears on the Relevant Screen Page as at 11:00 a.m. (Brussels time) on the day that is two TARGET Banking Days preceding the Interest Reset Date; or (b) (in the case of B CDs where the Reference Rate is specified in the applicable Final Terms as SOFR, SONIA or €STR), as determined in accordance with the following provisions, in each case, plus or minus the spread (if any) specified in the applicable Final Terms.

If, in the case of B CDs where the Reference Rate is specified in the applicable Final Terms as EURIBOR, such rate does not appear on the

Relevant Screen Page, the Interest Rate will be the rate as determined by the Calculation Agent on the basis of the rates at which deposits in euro are offered by the Reference Banks at approximately 11:00 a.m. (Brussels time) on the day that is two TARGET Banking Days preceding the Interest Reset Date to prime banks in, the Euro-zone inter-bank market for a period equal to that which would have been used for the Reference Rate, commencing on the Interest Reset Date and in a Representative Amount. The Calculation Agent will request the principal Euro-zone office of each of the Reference Banks to provide a quotation of its rate. If at least two such quotations are provided, the Interest Rate for that Interest Reset Date will be the arithmetic mean of the quotations. If fewer than two quotations are provided as requested, the Interest Rate for that Interest Reset Date will be the arithmetic mean of the rates quoted by major banks in New York City, selected by the Calculation Agent, at approximately 11:00 a.m. (New York City time) on the Interest Reset Date for loans in euro to leading European banks for a period equal to that which would have been used for the Reference Rate, commencing on the Interest Reset Date and in a Representative Amount.

In respect of B CDs where the applicable Final Terms specify that the Reference Rate is SOFR, SONIA or €STR, the Interest Rate for each Interest Period will be the rate determined by the Calculation Agent and as specified in the applicable Final Terms as follows plus or minus the spread (if any) specified in the applicable Final Terms:

- A. Where the Calculation Method is specified in the applicable Final Terms as being "Compounded Daily (Non-Index Determination)", the Reference Rate for each Interest Period will, subject as provided below, be the Compounded Daily Reference Rate, as determined by the Calculation Agent.

As used in this provision:

"**Compounded Daily Reference Rate**" means, with respect to an Interest Period, the rate of return of a daily compound interest investment (with SOFR, SONIA or €STR as the Reference Rate for the calculation of interest as specified in the applicable Final Terms), which will be calculated by the Calculation Agent, as at the relevant Reference Rate Determination Date as follows, and the resulting percentage will be rounded, if necessary, (in the case of SONIA) to the fourth decimal place, with 0.00005 being rounded upwards and (in the case of SOFR or €STR) to the fifth decimal place, with 0.000005 being rounded upwards:

$$\left[\prod_{i=1}^{d_0} \left(1 + \frac{r_i - p^{BD} \times n_i}{D} \right) \right] \times \frac{D}{d}$$

where:

"**Business Day**" or "**BD**" means (i) where "SOFR" is specified as the Reference Rate in the applicable Final Terms, a US Government Securities Business Day; (ii) where "SONIA" is specified as the Reference Rate in the applicable Final Terms, a London Banking Day; and (iii) where "€STR" is specified as the Reference Rate in the applicable Final Terms, a TARGET Banking Day;

"**D**" is the number specified in the applicable Final Terms;

"*d*" means (where "Lag" or "Lock-out" is specified in the applicable Final Terms as the Observation Method) the number of calendar days in the relevant Interest Period or (where "Shift" is specified in the applicable Final Terms as the Observation Method) the number of calendar days in the relevant Observation Period;

"*d₀*" means (where "Lag" or "Lock-out" is specified in the applicable Final Terms as the Observation Method) the number of Business Days in the relevant Interest Period or (where "Shift" is specified in the applicable Final Terms as the Observation Method) the number of Business Days in the relevant Observation Period;

"*ECB's Website*" means the website of the European Central Bank currently at <http://www.ecb.europa.eu>, or any successor website officially designated by the European Central Bank (any information on the ECB's website does not form part of the Base Prospectus and has not been scrutinised or approved by the competent authority unless incorporated by reference into the Base Prospectus);

"*€STR*" means, in respect of any Business Day, a reference rate equal to the daily euro short-term rate as provided by the European Central Bank, as administrator of such rate (or any successor administrator of such rate), on the ECB's Website, in each case on or before 9:00 a.m. (Central European Time) on the Business Day immediately following such Business Day;

"*i*" means a series of whole numbers from one to *d₀*, each representing the relevant Business Day in chronological order from, and including, the first Business Day (where "Lag" or "Lock-out" is specified in the applicable Final Terms as the Observation Method) in the relevant Interest Period or (where "Shift" is specified in the applicable Final Terms as the Observation Method) in the relevant Observation Period;

"*London Banking Day*" means any day on which commercial banks are open for general business (including dealing in foreign exchange and foreign currency deposits) in London;

"*n_i*" means, for any Business Day "*i*", the number of calendar days from, and including, such Business Day "*i*" up to, but excluding, the following Business Day;

"*New York Fed's Website*" means the website of the Federal Reserve Bank of New York currently at <http://www.newyorkfed.org>, or any successor website officially designated by the Federal Reserve Bank of New York (any information on the New York Fed's website or any successor website does not form part of the Base Prospectus and has not been scrutinised or approved by the competent authority unless incorporated by reference into the Base Prospectus);

"*Observation Period*" means, in respect of an Interest Period, the period from, and including, the date which is "*p*" Business Days prior to the first day of the relevant Interest Period (and the first Interest Period shall begin on, and include, the Issue Date) and ending on, but excluding, the date which is "*p*" Business Days prior to the Interest Payment Date for such Interest Period (or the date falling "*p*" Business Days prior to such earlier date, if any, on which the applicable Global B CD becomes due and payable);

"*p*" means, for any Interest Period (unless otherwise specified in the applicable Final Terms):

- a) where "Lag" or "Shift" is specified as the Observation Method in the applicable Final Terms, the number of Business Days included in the Observation Look-back Period specified in the applicable Final Terms (or, if no such number is specified, five Business Days); or
- b) where "Lock-out" is specified as the Observation Method in the applicable Final Terms, zero;

"**Reference Rate Determination Date**" means the date falling "*p*" Business Days prior to each Interest Reset Date;

"*r*" means:

- a) where "Lag" or "Shift" is specified as the Observation Method in the applicable Final Terms, in respect of any Business Day, the Reference Rate in respect of such Business Day;
- b) where "Lock-out" is specified as the Observation Method in the applicable Final Terms, in respect of any Business Day "*i*" falling in the relevant Interest Period, the Reference Rate for the Business Day immediately preceding such day; and in respect of any Business Day "*i*" falling on or after the "Lock-out Date" specified in the applicable Final Terms (or, where no "Lock-out Date" is specified, five Business Days prior to each Interest Reset Date), the Reference Rate in respect of the Business Day immediately preceding the last Business Day in the relevant Interest Period (such last Business Day coinciding with the relevant Reference Rate Determination Date);

" r_{i-p}^{BD} " means in relation to any Interest Period, the applicable Reference Rate as set out in the definition of "*r*" above for, where "Lag" is specified as the Observation Method in the applicable Final Terms, the Business Day (being a Business Day falling in the relevant Observation Period) falling "*p*" Business Days prior to the relevant Business Day "*i*" or, where "Lock-out" or "Shift" is specified as the Observation Method in the applicable Final Terms, the relevant Business Day "*i*";

"**SOFR**" means, in respect of any Business Day, a reference rate equal to the daily Secured Overnight Financing Rate as provided by the Federal Reserve Bank of New York ("**New York Fed**"), as the administrator of such rate (or any successor administrator of such rate) on the New York Fed's Website, in each case on or about 5:00 p.m. (New York City Time) on the Business Day immediately following such Business Day;

"**SONIA**" means, in respect of any Business Day, a reference rate equal to the daily Sterling Overnight Index Average for such Business Day as provided by the administrator of SONIA to authorised distributors and as then published on the Relevant Screen Page or, if the Relevant Screen Page is unavailable, as otherwise published by such authorised distributors, in each case on the Business Day immediately following such Business Day; and

"**US Government Securities Business Day**" means any day except for a Saturday, Sunday or a day on which the Securities Industry

and Financial Markets Association recommends that the fixed income departments of its members be closed for the entire day for purposes of trading in U.S. government securities.

- B. Where the Calculation Method is specified in the applicable Final Terms as being "Weighted Average", the Reference Rate for each Interest Period will, subject as provided below, be the Weighted Average Reference Rate, as determined by the Calculation Agent.

As used in this provision:

"**Weighted Average Reference Rate**" means, with respect to any Interest Period, the arithmetic mean of SOFR, SONIA or €STR in effect during such Interest Period as specified in the applicable Final Terms, which will be calculated by the Calculation Agent as at the relevant Reference Rate Determination Date as follows, and the resulting percentage will be rounded, if necessary, (in the case of SONIA) to the fourth decimal place, with 0.00005 being rounded upwards and (in the case of SOFR or €STR) to the fifth decimal place, with 0.000005 being rounded upwards:

$$\left[\sum_{i=1}^{d_o} \left(\frac{r_i - p^{BD} \times n_i}{D} \right) \right] \times \frac{D}{d}$$

where:

"**Business Day**", "**BD**", "**D**", "**d**", "**d_o**", "**i**", "**n**" and "**p**" have the meanings given to them in the provision relating to "Compounded Daily Reference Rate" specified above;

"**r_i - p^{BD}**" means (unless specified in the applicable Final Terms):

- a) (where "Lag" is specified as the Observation Method in the applicable Final Terms) in respect of any Business Day "*i*" falling in the relevant Interest Period, the relevant Reference Rate for the Business Day falling "*p*" Business Days prior to such day "*i*";
- b) (where "Lock-out" is specified as the Observation Method in the applicable Final Terms) the Reference Rate determined in accordance with paragraph a) above, except that in respect of each Business Day "*i*" falling on or after the "Lock-out Date" specified in the applicable Final Terms (or, where no "Lock-out Date" is specified, five Business Days prior to each Interest Reset Date) until the end of each relevant Interest Period, the relevant Reference Rate determined in accordance with paragraph a) above in respect of such "Lock-out Date"; and
- c) (where "Shift" is specified as the Observation Method in the applicable Final Terms) in respect of any Business Day "*i*" falling in the relevant Observation Period, the relevant Reference Rate in respect of such day "*i*"; and

"**Reference Rate Determination Date**" means (unless otherwise defined in the applicable Final Terms) the date falling five Business Days prior to each Interest Payment Date.

- C. Where "SOFR" is specified as the Reference Rate in the applicable Final Terms and the Calculation Method is specified in the applicable Final Terms as being "Compounded Daily (Non-Index

Determination)", if, in respect of any Business Day, the Calculation Agent determines the Reference Rate is not available, such Reference Rate shall be SOFR for the first preceding Business Day on which SOFR was published on the Relevant Screen Page and "r" shall be interpreted accordingly.

D. Where "SONIA" is specified as the Reference Rate in the applicable Final Terms and the Calculation Method is specified in the applicable Final Terms as being "Compounded Daily (Non-Index Determination)", if, in respect of any Business Day in the relevant Interest Period or Observation Period, the Calculation Agent determines SONIA is not available on the Relevant Screen Page and has not otherwise been published by the relevant authorised distributors, such Reference Rate shall be:

- a) (i) the Bank of England's Bank Rate (the "**Bank Rate**") prevailing at 5:00 p.m. (London time) on the relevant Business Day; plus (ii) the mean of the spread of SONIA to the Bank Rate over the previous five days on which SONIA has been published, excluding the highest spread (or, if there is more than one highest spread, one only of those highest spreads) and lowest spread (or, if there is more than one lowest spread, one only of those lowest spreads) to the Bank Rate; or
- b) if such Bank Rate is not available, SONIA published on the Relevant Screen Page (or otherwise published by the relevant authorised distributors) for the first preceding Business Day on which SONIA was published on the Relevant Screen Page (or otherwise published by the relevant authorised distributors),

and, in each case, "r" shall be interpreted accordingly.

E. Where "€STR" is specified as the Reference Rate in the applicable Final Terms and the Calculation Method is specified in the applicable Final Terms as being "Compounded Daily (Non-Index Determination)", if, in respect of any Business Day, the Calculation Agent determines the Reference Rate is not available, such Reference Rate shall be €STR for the first preceding Business Day on which €STR was published on the Relevant Screen Page and "r" shall be interpreted accordingly.

F. In the event that the Reference Rate cannot be determined in accordance with the foregoing provisions, the Reference Rate shall be (i) that determined as at the last preceding Reference Rate Determination Date to which the foregoing provisions shall have applied or (ii) if there is no such preceding Reference Rate Determination Date, the initial Reference Rate which would have been applicable to the relevant B CDs for the first Interest Period had the relevant B CDs been in issue for a period equal in duration to the scheduled first Interest Period but ending on (and excluding) the Issue Date.

G. Where the Calculation Method is specified in the applicable Final Terms as being "Compounded Daily (Index Determination)", the Reference Rate for each Interest Period will, subject as provided below, be the Compounded Daily Reference Rate, as determined by the Calculation Agent.

As used in this provision:

"**Compounded Daily Reference Rate**" means, with respect to an Interest Period, the rate of return of a daily compound interest investment (with SOFR or SONIA as the Reference Rate for the calculation of interest as specified in the applicable Final Terms), which will be calculated by the Calculation Agent, as at the relevant Reference Rate Determination Date as follows, and the resulting percentage will be rounded, if necessary, (in the case of SONIA) to the fourth decimal place, with 0.00005 being rounded upwards and (in the case of SOFR) to the fifth decimal place, with 0.000005 being rounded upwards:

$$\left(\frac{\text{Reference Rate Compounded Index}_{\text{End}}}{\text{Reference Rate Compounded Index}_{\text{Start}}} - 1 \right) \times \frac{D}{d}$$

where:

"**Business Day**" or "**BD**" means (i) where "SOFR" is specified as the Reference Rate in the applicable Final Terms, a US Government Securities Business Day; and (ii) where "SONIA" is specified as the Reference Rate in the applicable Final Terms, a London Banking Day;

"**D**" is the number specified in the applicable Final Terms;

"**d**" means the number of calendar days from (and including) the day in relation to which Reference Rate Compounded Index_{Start} is determined to (but excluding) the day in relation to which Reference Rate Compounded Index_{End} is determined;

"**London Banking Day**" means any day on which commercial banks are open for general business (including dealing in foreign exchange and foreign currency deposits) in London;

"**p**" means, for any Interest Period (unless otherwise specified in the applicable Final Terms) five Business Days;

"**Reference Rate Compounded Index**" means:

- (i) where "SONIA" is specified as the Reference Rate and the Calculation Method is specified as "Compounded Daily (Index Determination)" in the applicable Final Terms, the screen rate or index for compounded daily SONIA rates administered by the administrator of the SONIA reference rate that is published or displayed by such administrator or other information service from time to time on the relevant Reference Rate Determination Date, as further specified in the applicable Final Terms; and
- (ii) where "SOFR" is specified as the Reference Rate and the Calculation Method is specified as "Compounded Daily (Index Determination)" in the applicable Final Terms, with respect to any U.S. Government Securities Business Day, the SOFR index value as published by the administrator of the SOFR reference rate as such index appears on the New York Fed's Website at or around 3.00 p.m. (New York time) on such US Government Securities Business Day;

"**Reference Rate Compounded Index_{Start}**" means, with respect to an Interest Period, the Reference Rate Compounded Index

determined in relation to the day falling the Relevant Number of Business Days prior to the first day of such Interest Period;

"Reference Rate Compounded Index_{End}" means, with respect to an Interest Period, the Reference Rate Compounded Index determined in relation to the day falling the Relevant Number of Business Days prior to (A) the Interest Payment Date for such Interest Period, or (B) such other date on which the relevant payment of interest falls due (but which by its definition or the operation of the relevant provisions is excluded from such Interest Period);

"Reference Rate Determination Date" means the date falling "p" Business Days prior to each Interest Reset Date;

"Relevant Number" means the number specified as such in the applicable Final Terms (or, if no such number is specified, five); and

"US Government Securities Business Day" means any day except for a Saturday, Sunday or a day on which the Securities Industry and Financial Markets Association recommends that the fixed income departments of its members be closed for the entire day for purposes of trading in U.S. government securities.

If the relevant Reference Rate Compounded Index is not published or displayed by the administrator of the Reference Rate or other information service by i) in respect of the SONIA reference rate, 5.00 p.m. (London time); or ii) in respect of the SOFR reference rate, 3.00 p.m. (New York time) (or, in each case, if later, by the time falling one hour after the customary or scheduled time for publication thereof in accordance with the then-prevailing operational procedures of the administrator of the Reference Rate or of such other information service, as the case may be) on the relevant Reference Rate Determination Date, the Compounded Daily Reference Rate for the applicable Interest Period for which the Reference Rate Compounded Index is not available shall be "Compounded Daily Reference Rate" determined as set out under the section entitled "Compounded Daily Reference Rate (Non-Index Determination)" above and as if "Compounded Daily (Non-Index Determination)" were specified in the applicable Final Terms as the Calculation Method, and for these purposes: (i) the "Observation Method" shall be deemed to be "Shift" and (ii) the "Observation Look-Back Period" shall be deemed to be equal to the Relevant Number of Business Days, as if those alternative elections had been made in the applicable Final Terms.

If the Global B CD becomes due and payable prior to their Maturity Date, the final Reference Rate Determination Date shall be deemed to be the date on which the relevant Global B CD became due and payable and the Reference Rate on such Global B CD shall, for so long as such Global B CD remains outstanding, be that determined on such date.

For the purposes of this provision, unless the context otherwise requires, the following defined terms shall have the meanings set out below:

"TARGET Banking Day" means any day on which TARGET2 (the Trans-European Automated Real-time Gross Settlement Express Transfer system) (or any successor or replacement transfer system, as determined by the Issuer) is open for the settlement of payments in Euro.

"Interest Reset Date" means, with respect to an Interest Period, the first day of that Interest Period as specified in the applicable Final Terms.

"London Banking Day" means any day on which commercial banks are open for general business (including dealings in foreign exchange and foreign currency deposits) in London, England.

"Reference Banks" means, in the case of a determination of EURIBOR, the principal Euro-zone office of four major banks in the Euro-zone inter-bank market, in each case selected by the Calculation Agent or as specified in the applicable Final Terms.

"Relevant Screen Page" means such page, section, caption, column or other part of a particular information service as may be specified in the applicable Final Terms, including any successor or replacement page, section, caption, column or other part of a particular information service.

"Representative Amount" means an amount that is representative for a single transaction in the relevant market at the relevant time.

"Specified Currency" means the currency specified as such in the applicable Final Terms.

The Issuer will procure that a notice specifying the Interest Rate payable in respect of each Interest Period be published as soon as practicable after the determination of the Interest Rate. Such notice will be delivered to the clearing systems.

ISDA Determination:

Overnight Rates:

For B CDs issued on a floating rate basis in respect of which the applicable Final Terms specify ISDA Determination and Overnight Rates as being applicable and the Reference Rate is either:

- (i) GBP-SONIA;
- (ii) USD-SOFR;
- (iii) EUR-EuroSTR;
- (iv) CHF-SARON;
- (v) HKD-HONIA;
- (vi) JPY-TONA;
- (vii) SGD-SORA;
- (viii) AUD-AONIA; or
- (ix) USD-Federal Funds,

(sub-paragraphs (i) to (ix) above as defined in the 2021 ISDA Definitions) the Interest Rate from time to time will be determined in accordance with the provisions below.

The Interest Rate for each Interest Period will be the rate determined by the Calculation Agent as the Reference Rate specified in the applicable Final Terms and determined in accordance with the following

provisions plus or minus the spread (if any) specified in the applicable Final Terms:

- A. Where GBP-SONIA is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is SONIA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for GBP-SONIA in the Compounding/Averaging Matrix;
- B. Where USD-SOFR is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is SOFR, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for USD-SOFR in the Compounding/Averaging Matrix;
- C. Where CHF-SARON is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is SARON, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for CHF-SARON in the Compounding/Averaging Matrix;
- D. Where EUR-EuroSTR is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is EuroSTR, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for EUR-EuroSTR in the Compounding/Averaging Matrix;
- E. Where HKD-HONIA is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is HONIA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for HKD-HONIA in the Compounding/Averaging Matrix;
- F. Where JPY-TONA is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as

applicable, where the Underlying Benchmark is TONA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for JPY-TONA in the Compounding/Averaging Matrix;

- G. Where SGD-SORA is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is SORA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for SGD-SORA in the Compounding/Averaging Matrix;
- H. Where AUD-AONIA is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is AONIA and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for AUD-AONIA in the Compounding/Averaging Matrix; and
- I. Where USD-Federal Funds is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the formula set out in the specified Overnight Rate Compounding Method or Overnight Rate Averaging Method, as applicable, where the Underlying Benchmark is the EFFR, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for USD-Federal Funds in the Compounding/Averaging Matrix.

The Issuer will procure that a notice specifying the Interest Rate payable in respect of each Interest Period be published as soon as practicable after the determination of the Interest Rate. Such notice shall be delivered to the Relevant Clearing Systems.

If, in respect of any Reference Rate specified above, a Temporary Non-Publication Trigger or a Permanent Cessation Trigger occurs in respect of such Reference Rate, the Calculation Agent shall determine the applicable Reference Rate in accordance with the Temporary Non-Publication Fallback or the Permanent Cessation Fallback (as the case may be) specified in the Floating Rate Matrix to be applicable to such Reference Rate.

In this provision:

"2021 ISDA Definitions" means the version of the 2021 ISDA Interest Rate Derivative Definitions, including each Matrix (and any successor matrix), as published by the International Swaps and Derivatives Association, Inc. (or any successor) on its website (www.isda.org) as at the Issue Date provided that (i) references to a "Confirmation" in the 2021 ISDA Definitions should instead be read as references to the applicable Final Terms; and (ii) references to a "Calculation Period" in the 2021 ISDA Definitions should instead be read as references to an

"Interest Period" and "Administrator/Benchmark Event" in the 2021 ISDA Definitions shall be disappplied; and

"Reference Rate Determination Date" means the number of Applicable Business Days, Observation Period Shift Business Days or Lockout Period Business Days, as applicable, as specified in the applicable Final Terms prior to the Interest Reset Date.

Capitalised terms used but not otherwise defined in this provision shall bear the meaning given to them in the 2021 ISDA Definitions.

Term Rates:

For B CDs issued on a floating rate basis in respect of which the applicable Final Terms specify ISDA Determination and Term Rates as being applicable and the Reference Rate is either:

- (i) EUR-EURIBOR;
- (ii) AUD-BBSW;
- (iii) HKD-HIBOR;
- (iv) JPY-TIBOR; or
- (v) SGD-SIBOR;

(sub-paragraphs (i) to (v) above as defined in the 2021 ISDA Definitions (as defined below)) the Interest Rate from time to time will be determined in accordance with the provisions below.

The Interest Rate for each Interest Period will be the rate determined by the Calculation Agent as the Reference Rate specified in the applicable Final Terms and determined in accordance with the following provisions plus or minus the spread (if any) specified in the applicable Final Terms:

- A. Where EUR-EURIBOR shall be determined by the Calculation Agent in accordance with the 2021 ISDA Definitions as if (i) the Reset Date was the first day of the relevant Interest Period and (ii) the Designated Maturity was the number of months equal to the Interest Period specified in the applicable Final Terms;
- B. Where AUD-BBSW shall be determined by the Calculation Agent in accordance with the 2021 ISDA Definitions as if (i) the Reset Date was the first day of the relevant Interest Period and (ii) the Designated Maturity was the number of months equal to the Interest Period specified in the applicable Final Terms;
- C. Where HKD-HIBOR shall be determined by the Calculation Agent in accordance with the 2021 ISDA Definitions as if (i) the Reset Date was the first day of the relevant Interest Period and (ii) the Designated Maturity was the number of months equal to the Interest Period specified in the applicable Final Terms;
- D. Where JPY-TIBOR shall be determined by the Calculation Agent in accordance with the 2021 ISDA Definitions as if (i) the Reset Date was the first day of the relevant Interest Period and (ii) the Designated Maturity was the number of months equal to the Interest Period specified in the applicable Final Terms; and

E. Where SGD-SIBOR shall be determined by the Calculation Agent in accordance with the 2021 ISDA Definitions as if (i) the Reset Date was the first day of the relevant Interest Period and (ii) the Designated Maturity was the number of months equal to the Interest Period specified in the applicable Final Terms,

provided that where a Temporary Non-Publication Trigger occurs in respect of the relevant above-mentioned Reference Rate, the Temporary Non-Publication Fallback for such rate as applicable under the Floating Rate Matrix shall be amended such that the reference to "Calculation Agent Alternative Rate Determination" shall be replaced by "Temporary Non-Publication Fallback – Previous Day's Rate".

If, in respect of any Reference Rate specified above, a Temporary Non-Publication Trigger or a Permanent Cessation Trigger occurs in respect of such Reference Rate, the Calculation Agent shall, subject as provided immediately above, determine the applicable Reference Rate in accordance with the Temporary Non-Publication Fallback or the Permanent Cessation Fallback (as the case may be) specified in the Floating Rate Matrix to be applicable to such Reference Rate.

The Issuer will procure that a notice specifying the Interest Rate payable in respect of each Interest Period be published as soon as practicable after the determination of the Interest Rate. Such notice shall be delivered to the Relevant Clearing Systems.

In this provision, "**2021 ISDA Definitions**" means the version of the 2021 ISDA Interest Rate Derivative Definitions, including each Matrix (and any successor matrix), as published by the International Swaps and Derivatives Association, Inc. (or any successor) on its website (www.isda.org) as at the Issue Date provided that (i) references to a "Confirmation" in the 2021 ISDA Definitions should instead be read as references to the applicable Final Terms; and (ii) references to a "Calculation Period" in the 2021 ISDA Definitions should instead be read as references to an "Interest Period" and "Administrator/Benchmark Event" in the 2021 ISDA Definitions shall be disappplied.

Capitalised terms used but not otherwise defined in this provision shall bear the meaning given to them in the 2021 ISDA Definitions.

OIS Compounding Rates:

For B CDs issued on a floating rate basis in respect of which the applicable Final Terms specify ISDA Determination and OIS Compounding Rates as being applicable and the Reference Rate is either:

- (i) AUD-AONIA-OIS Compound;
- (ii) CHF-SARON-OIS Compound;
- (iii) EUR-EuroSTR-OIS Compound;
- (iv) GBP-SONIA-OIS Compound;
- (v) HKD-HONIA-OIS Compound;
- (vi) JPY-TONA-OIS Compound;
- (vii) SGD-SORA-OIS Compound;

(viii) USD-Federal Funds-OIS Compound; or

(ix) USD-SOFR-OIS Compound,

(sub-paragraphs (i) to (ix) above as defined in the 2021 ISDA Definitions (as defined below)) the Interest Rate from time to time will be calculated in accordance with the provisions below.

The Interest Rate for each Interest Period will be the rate determined by the Calculation Agent as the Reference Rate specified in the applicable Final Terms and determined in accordance with the following provisions plus or minus the spread (if any) specified in the applicable Final Terms:

- A. Where AUD-AONIA-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is AONIA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for AUD-AONIA-OIS Compound in the Compounding/Averaging Matrix;
- B. Where CHF-SARON-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is SARON, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for CHF-SARON-OIS Compound in the Compounding/Averaging Matrix;
- C. Where EUR-EuroSTR-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is EuroSTR, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for EUR-EuroSTR-OIS Compound in the Compounding/Averaging Matrix;
- D. Where GBP-SONIA-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is SONIA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for GBP-SONIA-OIS Compound in the Compounding/Averaging Matrix;
- E. Where HKD-HONIA-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is HONIA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for HKD-HONIA-OIS Compound in the Compounding/Averaging Matrix;

- F. Where JPY-TONA-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is TONA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for JPY-TONA-OIS Compound in the Compounding/Averaging Matrix;
- G. Where SGD-SORA-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is SORA, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for SGD-SORA-OIS Compound in the Compounding/Averaging Matrix;
- H. Where USD-Federal Funds-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is the EFFR, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for USD-Federal Funds-OIS Compound in the Compounding/Averaging Matrix; and
- I. Where USD-SOFR-OIS Compound is specified as the Reference Rate in the applicable Final Terms, the rate determined by the Calculation Agent on the relevant Reference Rate Determination Date by applying the OIS compounding formula, where the Underlying Benchmark is SOFR, and the resulting percentage is rounded, if necessary, in accordance with the 2021 ISDA Definitions, but to the nearest percentage point specified for USD-SOFR-OIS Compound in the Compounding/Averaging Matrix.

The Issuer will procure that a notice specifying the Interest Rate payable in respect of each Interest Period be published as soon as practicable after the determination of the Interest Rate. Such notice shall be delivered to the Relevant Clearing Systems.

If, in respect of any Reference Rate specified above, a Temporary Non-Publication Trigger or a Permanent Cessation Trigger occurs in respect of such Reference Rate, the Calculation Agent shall determine the applicable Reference Rate in accordance with the Temporary Non-Publication Fallback or the Permanent Cessation Fallback (as the case may be) specified in the Floating Rate Matrix to be applicable to such Reference Rate.

In this provision:

"2021 ISDA Definitions" means the version of the 2021 ISDA Interest Rate Derivative Definitions, including each Matrix (and any successor matrix), as published by the International Swaps and Derivatives Association, Inc. (or any successor) on its website (www.isda.org) as at the Issue Date provided that (i) references to a "Confirmation" in the 2021 ISDA Definitions should instead be read as references to the applicable Final Terms; and (ii) references to a "Calculation Period" in the 2021 ISDA Definitions should instead be read as references to the Calculation Period specified in the applicable Final Terms and

"Administrator/Benchmark Event" in the 2021 ISDA Definitions shall be disapplied; and

"Reference Rate Determination Date" means the number of Applicable Business Days specified in the applicable Final Terms prior to the Interest Reset Date.

Capitalised terms used but not otherwise defined in this provision shall bear the meaning given to them in the 2021 ISDA Definitions.

Substitute or Successor Rate of Interest where the Reference Rate is EURIBOR

If, in respect of B CDs where the Reference Rate specified in the applicable Final Terms is EURIBOR and Screen Rate Determination applies, the Calculation Agent determines that the Reference Rate has been discontinued or has otherwise ceased to exist, the Calculation Agent shall, in its sole and absolute discretion, select a substitute or successor rate of interest that the Calculation Agent determines is most comparable to the Reference Rate to replace the Reference Rate (provided that if the Calculation Agent determines that there is an industry-accepted substitute or successor rate of interest, then the Calculation Agent shall select such substitute or successor rate of interest), and shall replace the Reference Rate by such substitute or successor rate of interest with effect from such date as determined by the Calculation Agent, and such substitute or successor rate of interest will be deemed to be the Reference Rate with effect from such date. The Calculation Agent may make such adjustments that it determines to be appropriate, if any, to any one or more of the terms of the B CDs, including without limitation, any variable or term relevant to the settlement or payment under the B CDs, as the Calculation Agent determines appropriate to account for such replacement and make such substitute or successor rate of interest comparable to the Reference Rate, in a manner that is consistent with industry-accepted practices for such substitute or successor rate of interest.

Calculation Agent

Goldman Sachs International.

Interest Commencement Date

The Issue Date or as otherwise specified in the Final Terms.

Interest Period

The period from and including the Interest Commencement Date for the B CDs to but excluding the first Interest Payment Date for the B CDs, and each successive period from and including the first day following the end of the preceding Interest Period to but excluding the following Interest Payment Date until the principal of the B CDs is paid or made available for payment. An Interest Period may be adjusted or unadjusted.

Step-Up B CDs / Step-Down B CDs

The B CDs may include an interest step-up provision whereby the Interest Rate payable increases at pre-determined periods, as indicated in the applicable Final Terms. The B CDs may also indicate an interest step-down provision whereby the Interest Rate payable decreases at pre-determined periods, as indicated in the applicable Final Terms.

Business Day

A day other than a Saturday, Sunday, or other day on which commercial banking institutions are authorised or required by law to close in London or such other business centre as the applicable Final Terms shall specify.

Day Count Fraction

In respect of the calculation of an amount of interest for any Interest Period:

- (i) if "*1/1 (ISDA)*" is specified in the applicable Final Terms, 1;

- (ii) if "**Actual/Actual (ISDA)**" is specified in the applicable Final Terms, the actual number of days in the Interest Period divided by 365 (or, if any portion of the Interest Period falls in a leap year, the sum of (A) the actual number of days in that portion of the Interest Period falling in a leap year divided by 366 and (B) the actual number of days in that portion of the Interest Period falling in a non-leap year divided by 365);
- (iii) if "**Actual/Actual (ICMA)**" is specified in the applicable Final Terms, the number of days in the Interest Period, including 29 February in a leap year, divided by the product of (1) the actual number of days in such Interest Period and (2) the number of Interest Periods in any year;
- (iv) if "**Actual/Actual (Bond)**" is specified in the applicable Final Terms, the number of calendar days in the Interest Period, divided by the number of calendar days in the Interest Period multiplied by the number of Interest Periods in the calendar year;
- (v) if "**Actual/Actual (Euro)**" is specified in the applicable Final Terms, the number of calendar days in the Interest Period divided by 365, or if the Interest Period includes 29 February, 366;
- (vi) if "**Actual/365 (Fixed)**" is specified in the applicable Final Terms, the actual number of days in the Interest Period divided by 365;
- (vii) if "**Actual/360 (ISMA)**" or "**Actual/360 (ICMA)**" is specified in the applicable Final Terms, the actual number of days in the Interest Period divided by 360;
- (viii) if "**30/360 (ISDA)**" is specified in the applicable Final Terms, the number of days in the Interest Period in respect of which payment is being made divided by 360, calculated on a formula basis as follows:

Day Count Fraction =

$$\frac{[360 \times (Y_2 - Y_1)] + [30 \times (M_2 - M_1)] + [D_2 - D_1]}{360}$$

where:

"**Y₁**" is the year, expressed as a number, in which the first day of the Interest Period falls;

"**Y₂**" is the year, expressed as a number, in which the day immediately following the last day included in the Interest Period falls;

"**M₁**" is the calendar month, expressed as a number, in which the day immediately following the last day included in the Interest Period falls;

"**M₂**" is the calendar month, expressed as a number, in which the day immediately following the last day included in the Interest Period falls;

"**D₁**" is the first calendar day, expressed as a number, immediately following the last day included in the Interest

Period, unless such number would be 31 and D1 is greater than 29, in which case D2 will be 30.

Interest Amount Payable	Interest due on each Interest Payment Date will be an amount equal to the product of (a) the aggregate nominal amount of B CDs outstanding on the first day of the Interest Period, (b) the Day Count Fraction, and (c) the Interest Rate as specified in the applicable Final Terms. Interest due will be rounded up or down as specified in the applicable Final Terms, in such units as specified in the applicable Final Terms.
Interest Payment Date	Each date specified as such in the applicable Final Terms.
Business Day Convention	<p>If any Interest Payment Date is specified to be subject to adjustment in accordance with a Business Day Convention that would otherwise fall on a day that is not a Business Day, then, if the Business Day Convention specified in the applicable Final Terms is:</p> <ul style="list-style-type: none">(a) (in the case of B CDs issued on a floating rate basis only) the Floating Rate Business Day Convention, the Interest Payment Date will be postponed to the next day that is a Business Day unless it would thereby fall into the next calendar month, in which event (x) such date will be brought forward to the immediately preceding Business Day and (y) each subsequent such date will be the last Business Day of the month in which such date would have fallen had it not been subject to adjustment;(b) the Following Business Day Convention, such Interest Payment Date will be postponed to the next day that is a Business Day;(c) the Modified Following Business Day Convention, such date will be postponed to the next day that is a Business Day unless it would thereby fall into the next calendar month, in which event such date shall be brought forward to the immediately preceding Business Day; or(d) the Preceding Business Day Convention, such date will be brought forward to the immediately preceding Business Day.
Payments on non-Business Days	If any date for payment in respect of any B CD is not a Business Day, payment shall not be made until the next following Business Day and no interest or other sum in respect of such postponed payment shall be due to the investor.
Discount B CDs	Fixed rate B CDs and floating rate B CDs may be original issue Discount B CDs. B CDs of this type are issued at a price lower than their principal amount and provide that, upon redemption, their principal amount will be payable. Original issue Discount B CDs may be zero coupon B CDs.
Premium B CDs	Fixed rate B CDs and floating rate B CDs may be original issue Premium B CDs. B CDs of this type are issued at a price higher than their principal amount and provide that, upon redemption, their principal amount will be repayable. Original issue Premium B CDs may be zero coupon B CDs.
Nominal Amount	The principal amount or the par value of a B CD, exclusive of premium or interest payable by the Issuer at the Maturity Date of such B CD.
Scheduled Redemption	Unless previously redeemed, or purchased and cancelled or extended, each B CD will be redeemed by the Issuer at 100 per cent. of the

Nominal Amount on the Maturity Date set out in the applicable Final Terms.

Redemption at the Option of the Issuer The Issuer will not be entitled to redeem a B CD before its Maturity Date, or in the case of Extendible B CDs, its Final Maturity Date, unless the applicable Final Terms specifies a redemption commencement date (the "*Redemption Commencement Date*"). If a B CD specifies a Redemption Commencement Date, it will also specify one or more redemption prices, which may be expressed as a percentage of the principal amount of the B CD. A B CD may also specify one or more redemption periods during which the specified redemption prices relating to a redemption of B CDs during those periods will apply. The minimum redemption price will be 100 per cent. of the Nominal Amount.

If a B CD specifies a Redemption Commencement Date, such B CD will be redeemable at the option of the Issuer, in whole or in part, at any time on or after that date or at a specified time or times. If the Issuer redeems a B CD, it will do so at the specified redemption price, together with any interest accrued to the redemption date. If different prices are specified for different redemption periods, the price paid by the Issuer will be the price that applies to the redemption period during which such B CD is redeemed.

Redemption upon Change in Law The Issuer will have the option to redeem a B CD as a result of certain developments involving a change in law (including a change in tax law). The Issuer will have the option to redeem a B CD if, as a result of any change in UK tax treatment, the Issuer would be required to pay an additional amount as described in paragraph 6 of the Global B CD or it is or will become unlawful for the Issuer to perform any of its obligations under the B CDs. The redemption price in these circumstances will be 100 per cent. of the Nominal Amount.

If the Issuer exercises an option to redeem any B CD, it will give to the holder written notice of the principal amount of the B CD to be redeemed, not less than 35 days before the applicable redemption date. In addition, the Issuer will notify the Luxembourg Stock Exchange of any redemption of B CDs.

Purchase The Issuer or its affiliates may purchase B CDs from investors who are willing to sell from time to time, either in the open market at prevailing prices or in private transactions at negotiated prices, subject to the Secondary Market terms below. B CDs that the Issuer or its affiliates purchase may, at the Issuer's discretion, be held, resold or cancelled.

Secondary Market Goldman Sachs International or any other affiliate of the Issuer may use this Base Prospectus to resell B CDs in market-making transactions from time to time but neither the Issuer nor Goldman Sachs International nor any other affiliate of the Issuer will have any obligation to make a market in the B CDs after the initial offering and purchase and any such market-making, if commenced, may be discontinued at any time without notice.

Prescription Claims for principal and interest shall become void unless the relevant B CDs are presented for payment within ten years of the appropriate maturity date.

Currencies of issue of the B CDs B CDs may be denominated in euro, Sterling, US dollars or any other currency subject to compliance with any applicable legal and regulatory requirements.

Maturity of the B CDs

The tenor of the B CDs shall be more than 364 days from and including the date of issue to but excluding the Final Maturity Date, subject to compliance with any applicable legal and regulatory requirements.

Extendible B CDs

The initial Maturity Date of the B CDs will be specified in the applicable Final Terms. The Final Terms may provide that on the initial Maturity Date and such other date or dates specified (each, an "**Extension Date**"), the Issuer has the option to extend the initial Maturity Date of the B CDs (the "**Issuer Extension Option**") to such date or dates as shall be provided in the applicable Final Terms (each, an "**Extended Maturity Date**"), (such B CDs, "**Extendible B CDs**"). Any such Extended Maturity Date shall in no event exceed the maximum maturity from and including the date of issue as specified in the applicable Final Terms (the "**Final Maturity Date**").

If the Final Terms provide that the relevant series of the B CDs are Extendible B CDs, each time the Issuer elects to exercise the Issuer Extension Option, the Issuer is required to deliver a notice of extension (an "**Extension Notice**") to the Relevant Clearing System (through the Agent) by no later than 5.00 p.m. (London time) on the date specified in the Final Terms (each, an "**Extension Notice Date**"), for communication by the Relevant Clearing System to the holders of the Extendible B CDs, informing holders of the B CDs that the Issuer will be exercising the Issuer Extension Option.

Each Extension Notice shall contain the following information:

- confirmation that the Issuer will be exercising the Issuer Extension Option;
- the applicable Extended Maturity Date;
- the applicable Exercise Deadline (as defined below);
- the applicable interest rate for the period between the initial Maturity Date and the applicable Extended Maturity Date (the "**Extended Interest Rate**"); and
- the form of Exercise Notice (as defined below).

If the Issuer does not exercise its Issuer Extension Option on any Extension Date, the Extendible B CDs will be redeemed on the then current Maturity Date.

If the Issuer fails to publish an Extension Notice on an Extension Notice Date, then each holder of Extendible B CDs will be deemed to have exercised its Non-Extension Option, the then current Maturity Date shall not be extended and the Extendible B CDs will be redeemed on the then current Maturity Date.

If the Issuer exercises its Issuer Extension Option, each holder of Extendible B CDs has the option not to extend the then current Maturity Date in respect of some or all of those Extendible B CDs (the "**Non-Extension Option**"), in which case the then current Maturity Date shall not be extended in respect of those Extendible B CDs the subject of the Non-Extension Option and the relevant Extendible B CDs shall be redeemed on the then current Maturity Date. In order to exercise its Non-Extension Option in respect of some or all of those Extendible B CDs, the holder of the Extendible B CDs must deliver a duly completed option exercise notice (the "**Exercise Notice**") in the form annexed to the applicable Extension Notice by no later than 5.00 p.m. (London

time) on the date specified in the Final Terms (the "**Exercise Deadline**") to the Relevant Clearing System for communication by the Relevant Clearing System through the Agent to the Issuer.

There will be a minimum of 10 Business Days between each Extension Notice Date and applicable Exercise Deadline unless otherwise agreed with the Relevant Clearing System.

Upon delivery to the Relevant Clearing System, an Exercise Notice shall be revocable until the applicable Exercise Deadline, at which time such notice will become irrevocable and binding upon the holder, or any transferee of such holder, of the Extendible B CDs.

If a holder of Extendible B CDs delivers an Exercise Notice in respect of part only of its holding of Extendible B CDs, the principal amount of such partial holding of Extendible B CDs (the "**Maturing B CDs**") will become due and payable on the then current Maturity Date. The aggregate principal amount of the Maturing B CDs will be represented by a new Global B CD to be issued on the applicable Extension Date, provided that any such principal amount of the Maturing B CDs will not be less than EUR 100,000 (or the equivalent in any other currency). The Maturing B CDs represented by the new Global CD will be unlisted. The new Global CD so issued will have the same terms as the B CDs, except that it will not be extendible, will have a separate ISIN and a separate Common Code and its maturity date will be the then current Maturity Date. The outstanding principal amount of such Extendible B CDs shall be reduced by the amount of the Maturing B CDs with effect from the applicable Extension Date, provided that any such principal amount of the outstanding Extendible B CDs will not be less than EUR 100,000 (or the equivalent in any other currency).

If a holder of Extendible B CDs does not deliver an Exercise Notice prior to the applicable Exercise Deadline, the then current Maturity Date shall be extended automatically to the next following Extended Maturity Date and interest from the then current Maturity Date will continue to accrue on the Extendible B CDs at the Extended Interest Rate and shall be payable on the applicable Extended Maturity Date.

If the Issuer exercises its Issuer Extension Option and the holder of Extendible B CDs exercises its Non-Extension Option, the relevant Extendible B CDs will be non-transferable in the period between the relevant Exercise Deadline and the relevant Extension Date. For the avoidance of doubt, no restrictions on transfer will exist during this period for the holders of the Extendible B CDs who have not exercised its Non-Extension Option.

Minimum Issuance Amount	At least EUR 100,000 (or the equivalent in any other currency).
Minimum denomination of the B CDs	The minimum denomination of each B CD will be EUR 100,000 (or the equivalent in any other currency) unless otherwise specified in the applicable Final Terms and integral multiples of amounts as specified in the applicable Final Terms (subject in each case to compliance with all applicable legal and regulatory requirements). For any B CDs admitted to trading on the regulated market on Luxembourg Stock Exchange, the minimum denomination of each CD will not be less than EUR 100,000 (or the equivalent in any other currency).
Status of the B CDs	The B CDs shall represent direct, unconditional, unsubordinated and unsecured obligations of the Issuer and shall at all times rank <i>pari passu</i> with all other present and future unsubordinated and unsecured

obligations for funds borrowed or guaranteed by the Issuer (other than in the case of obligations preferred by mandatory provisions of law).

Governing law that applies to the B CDs The B CDs, and any non-contractual obligations arising out of or in connection with the B CDs, will be governed by, and construed in accordance with, English law.

The Issuer has agreed for the exclusive benefit of the bearer of a B CD that the courts of England are to have jurisdiction to settle any disputes which may arise out of or in connection with a B CD (including a dispute relating to any non-contractual obligations arising out of or in connection with a B CD) and that accordingly any suit, action or proceedings (together, "*Proceedings*") arising out of or in connection with a B CD (including Proceedings relating to any non-contractual obligations arising out of or in connection with a B CD) may be brought in such courts. The Issuer irrevocably waives any objection which it may have had or will have to the laying of the venue of any such Proceedings in any such court and any claim that any such Proceedings have been brought in an inconvenient forum and further irrevocably agrees that a judgment in any such proceedings brought in the English courts shall be conclusive and binding upon it and may be enforced in the courts of any other jurisdiction. This waiver has been made for the benefit of each of the holders of B CDs and shall not limit any right to take Proceedings against the Issuer in any other court of competent jurisdiction, nor shall the taking of Proceedings in one or more jurisdictions preclude the taking of Proceedings in any other jurisdiction, whether concurrently or not.

Issuing and Paying Agent Deutsche Bank AG, London Branch.

Notices In relation to the B CDs which are admitted to listing on the Official List and to trading on the regulated market of the Luxembourg Stock Exchange as the rules of that stock exchange so require, notices to the holders of B CDs shall be validly given if published in the *Luxemburger Wort*, being a leading newspaper having general circulation in Luxembourg, or through publication on the website of the Luxembourg Stock Exchange (www.luxse.com).

Notices to the Issuer will be made to its office by mail or telefax and addressed for the attention of the person designated by it for that purpose as set out below:

Goldman Sachs International Bank
Plumtree Court
25 Shoe Lane
London, EC4A 4AU
United Kingdom

Attn: Chirag D. Patel

FORM OF FINAL TERMS – A CDS

GOLDMAN SACHS INTERNATIONAL BANK (LEI: N9FYJ29MC81JI74MJE92)

Issue of [Aggregate Nominal Amount of Tranche] [Title of A CDs] under the Certificate of Deposit Programme

Terms used herein shall be deemed to be defined as such in the Terms and Conditions of the A CDs set forth in the base prospectus dated 9 March 2023 (the "**Base Prospectus**") [and the supplement[s] to the Base Prospectus dated 9 March 2023. This document constitutes the Final Terms of the A CDs described herein and must be read in conjunction with such Base Prospectus [as so supplemented].

Full information on the Issuer and the Programme is only available on the basis of the combination of these Final Terms and the Base Prospectus [as so supplemented]. The Base Prospectus [and the supplement[s] to the Base Prospectus] [is] [are] available for viewing at www.luxse.com and during normal business hours at [address] [and copies may be obtained from [address]].

Series Number:	[●]
Specified Currency:	[●]
Nominal Amount of A CDs:	[●]
Issue Price:	[●] [Premium] [Discount]
Specified Denomination(s):	[●]
Issue Date:	[●]
Interest Commencement Date:	[●]/[Issue Date]
Maturity Date:	[●]
Interest Basis:	[[●] per cent. Fixed Rate] [[specify reference rate] +/- [●] per cent. Floating Rate] [Zero Coupon]
Day Count Fraction:	[[1/1 (ISDA)] [Actual/Actual (ISDA)] [Actual/Actual (ICMA)] [Actual/Actual (Bond)] [Actual/Actual (Euro)] [Actual/365 (Fixed)] [Actual/360 (ISDA)] [Actual/360 (ICMA)] [30/360 (ISDA)]]
Business Day:	[London]/[specify].
Interest Amount Payable:	Interest due on the Interest Payment Date will be an amount equal to the product of (a) the aggregate nominal amount of A CDs outstanding on the first day of the Interest Period, (b) the Day Count Fraction, and (c) the Interest Rate. Interest due will be rounded [up][down] to the nearest whole [●].
Interest Period:	The period from and including the Interest Commencement Date for the A CDs to but excluding the first Interest Payment Date for the A CDs and each successive period from and including the first day following the end of the preceding Interest Period to but excluding the following Interest Payment Date, until the principal of the A CDs is paid or made available for payment. [Adjusted] [Unadjusted]

Provisions relating to interest (if any) payable

Fixed rate provisions	[Applicable/Not Applicable]
Interest Rate:	[●] per cent. per annum
Interest Payment Date[s]:	[●]
Business Day Convention:	[Not Applicable/Following Business Day Convention/Modified Business Day Convention/Preceding Business Day Convention]
Floating rate provisions	[Applicable/Not Applicable]
Interest Rate:	The rate per annum equal to the Reference Rate for such Interest Period [plus]/[minus] <i>spread</i> per cent.
Interest Period:	[●]
Interest Payment Date[s]:	[●]
Business Day Convention:	[Not Applicable/Floating Rate Business Day Convention/Following Business Day Convention/Modified Business Day Convention/Preceding Business Day Convention]
Interest Reset Date[s]:	[●]
Reference Rate:	[●]-month [EURIBOR] / [SOFR] / [SONIA] / [€STR] / [GBP-SONIA] / [USD-SOFR] / [EUR-EuroSTR] / [CHF-SARON] / [HKD-HONIA] / [JPY-TONA] / [SGD-SORA] / [AUD-AONIA] / [USD-Federal Funds] / [EUR-EURIBOR] / [AUD-BBSW] / [HKD-HIBOR] / [JPY-TIBOR] / [SGD-SIBOR] / [AUD-AONIA-OIS Compound] / [CHF-SARON-OIS Compound] / [EUR-EuroSTR-OIS Compound] / [GBP-SONIA-OIS Compound] / [HKD-HONIA-OIS Compound] / [JPY-TONA-OIS Compound] / [SGD-SORA-OIS Compound] / [USD-Federal Funds-OIS Compound] / [USD-SOFR-OIS Compound] / [●] <i>[The Issuer may select an alternative reference rate in respect of floating rate interest bearing A CDs. If so, the Interest Rate should be determined in accordance with the applicable provisions as set out in the section entitled "Floating Rate Interest" in "Terms and Conditions of the A CDs".]</i>
Manner in which the Rate of Interest is to be determined:	[Screen Rate Determination/ISDA Determination]
Calculation Agent:	[Goldman Sachs International]/[●]
Screen Rate Determination	[Applicable/Not Applicable]
Reference Banks:	[●]/Not Applicable
Relevant Screen Page:	[●]/Not Applicable
Calculation Method:	[Compounded Daily (Non-Index Determination)/Weighted Average/Compounded Daily (Index Determination)/Not Applicable]

[Delete as appropriate. Complete for floating rate interest bearing A CDs only where the Reference Rate is specified as SONIA, SOFR or €STR. Compounded Daily (Index Determination) only available where the Reference Rate is specified as SONIA or SOFR.]

Relevant Number: [●]/Not Applicable

[Complete for floating rate interest bearing A CDs only where the Calculation Method is specified as Compounded Daily (Index Determination)]

Observation Method: [Lag/Lock-out/Shift/Not Applicable]

[Delete as appropriate. Complete for floating rate interest bearing A CDs only where the Reference Rate is specified as SONIA, SOFR or €STR]

Observation Look-back Period: [●]/Not Applicable

[Complete for floating rate interest bearing A CDs only where the Reference Rate is specified as SONIA, SOFR or €STR and the Observation Method is specified as Lag or Shift. Cannot be less than five Business Days prior to the relevant Interest Payment Date.]

Lock-out Date: [●]/Not Applicable

[Complete for floating rate interest bearing A CDs only where the Reference Rate is specified as SONIA, SOFR or €STR and the Observation Method is specified as Lock-out]

p: [●]/Not Applicable

[Cannot be less than five Business Days prior to the relevant Interest Payment Date.]

D: [●]/Not Applicable

[Complete for floating rate interest bearing A CDs only where the Reference Rate is specified as SONIA, SOFR or €STR]

ISDA Determination [Applicable/Not Applicable]

Overnight Rates: [Applicable/Not Applicable]

[Include Applicable for floating rate interest bearing A CDs only and where the Reference Rate is GBP-SONIA, USD-SOFR, EUR-EuroSTR, CHF-SARON, HKD-HONIA, JPY TONA, SGD-SORA, AUD-AONIA or USD-Federal Funds and complete the line items in the rest of this section, otherwise include Not Applicable]

Compounding/Averaging: [Applicable/Not Applicable]

Compounding: [Compounding with Lookback / Compounding with Observation Period Shift / Compounding with Lockout] / [Not Applicable]

Averaging:	[Averaging with Lookback / Averaging with Observation Period Shift / Averaging with Lockout] / [Not Applicable]
	[
Lookback:	[5] Applicable Business Days / [Not Applicable]
	<i>[Delete this field if Compounding with Lookback or Averaging with Lookback is not selected or Compounding/Averaging is specified as Not Applicable.]</i>
Observation Period Shift:	[5] Observation Period Shift Business Days] / [Not Applicable]
	<i>[Delete this field and the "Observation Period Shift Additional Business Days" field if Compounding with Observation Period Shift or Averaging with Observation Period Shift is not selected or Compounding/Averaging is specified as Not Applicable.]</i>
Lockout:	[5] Lockout Period Shift Business Days / [Not Applicable]
	<i>[Delete this field and "Lockout Period Business Days" field if Compounding with Lockout or Averaging with Lockout is not selected or Compounding/Averaging is specified as Not Applicable.]</i>
Observation Period Shift Additional Business Days:	[●] / [Not Applicable]
Lockout Period Business Days:	[●] / [Not Applicable]
	<i>[This field is to specify the financial centre(s) for the purposes of the Lockout Business Days. If none are specified and Not Applicable is selected, the Lockout Business Days will be the Applicable Business Days (i.e. the rate business days). This field should be completed and the parties may wish to refer to the Compounding/Averaging Matrix. As at December 2021 the number of Lockout Period Business Days for Compounding with Lockout and Averaging with Lockout in the Compounding/Averaging Matrix has not yet been populated for any of GBP-SONIA, USD-SOFR, EUR-EuroSTR, CHF-SARON, HKD-HONIA, JPY TONA, SGD-SORA, AUD-AONIA or USD-Federal Funds. However, the default designation is 5 Lockout Period Business Days in accordance with the 2021 ISDA Definitions. Note that when populated the Compounding/Averaging Matrix may not reflect the default designation]</i>
Term Rates:	[Applicable/Not Applicable]
	<i>[Include Applicable for floating rate interest bearing A CDs only and where the Reference Rate is EUR-EURIBOR, AUD-BBSW, HKD-HIBOR, JPY-TIBOR, SGD-SIBOR, otherwise include Not Applicable]</i>
OIS Compounding Rates:	[Applicable/Not Applicable]

[Include Applicable for floating rate interest bearing A CDs only where the Reference Rate is AUD-AONIA-OIS Compound, CHF-SARON-OIS Compound, EUR-EuroSTR-OIS Compound, GBP-SONIA-OIS Compound, HKD-HONIA-OIS Compound, JPY-TONA-OIS Compound, SGD-SORA-OIS Compound, USD-Federal Funds-OIS Compound or USD-SOFR-OIS Compound and complete the line items in the rest of this section, otherwise include Not Applicable]

Calculation Period: / [Not Applicable]
[Needs to take into account the Fixing Date for the relevant Reference Rate specified in the Floating Rate Matrix]

Reference Rate Determination Date: [5] Applicable Business Days / [Not Applicable]
[This should be no less than 3 Business Days and no more than 5 Business Days prior to the relevant Interest Reset Date (taking into account the Fixing Day for the relevant Reference Rate, which may be the day after the relevant date in a Calculation Period)]

Zero Coupon [Applicable/Not Applicable]

Provisions relating to redemption

Redemption at the option of the Issuer: [Applicable/Not Applicable]

Redemption Commencement Date: / Not Applicable

Redemption price(s): / Not Applicable

Redemption period: / Not Applicable

Provisions relating to Extendible A CDs

Extendible A CDs: [Applicable/Not Applicable]
[If the Issuer Extension Option is to apply more than once, each relevant Extension Date should be included below]

[First] Extension Date:

[First] Extended Maturity Date: [date or period]

[First] Extension Notice Date:

[First] Exercise Deadline

Final Maturity Date: / Not Applicable

General provisions

New global form: [Yes/No]

Intended to be held in a manner which would allow Eurosystem eligibility: [Yes/No]
[Yes. Note that the designation "yes" simply means that the CDs are intended upon issue to be deposited with one of the ICSDs as common safekeeper and does not necessarily mean that the CDs will be recognised as eligible collateral for Eurosystem monetary policy and intra day credit operations by the Eurosystem either upon issue or at any or all times during their life. Such recognition will depend upon the ECB

being satisfied that Eurosystem eligibility criteria have been met.] [include this text if "Yes" selected in which case the A CDs must be issued in new global form].

[No. Whilst the designation is specified as "no" at the date of these Final Terms, should the Eurosystem eligibility criteria be amended in the future such that the A CDs are capable of meeting them the A CDs may then be deposited with one of the ICSDs as common safekeeper. Note that this does not necessarily mean that the A CDs will then be recognised as eligible collateral for Eurosystem monetary policy and intra day credit operations by the Eurosystem at any time during their life. Such recognition will depend upon the ECB being satisfied that Eurosystem eligibility criteria have been met.]

Distribution

Method of Distribution: [Syndicated/Non-syndicated]
Name of the relevant Dealer: [●]/[Goldman Sachs International]/[Goldman Sachs Bank Europe SE]

Listing and admission to trading

Listing: [Official List of the Luxembourg Stock Exchange]/[Not Applicable]

Admission to trading: [Application has been made for the A CDs to be admitted to trading on the regulated market of the Luxembourg Stock Exchange with effect from [●].] [Not Applicable.]

Estimate of total expenses related to admission to trading: [●]/Not Applicable

Ratings: The A CDs to be issued have been rated:
[Fitch:[●]]
[S&P: [●]]
[Moody's: [●]]
[[Other]: [●]]

Yield: Indication of yield [Fixed rate A CDs only: [●] per annum]
[Zero coupon A CDs only: [●] per annum]

The yield is calculated at the Issue Date on the basis of the issue price. It is not an indication of future yield.

Interests of natural and legal persons involved in the Programme: [So far as the Issuer is aware, no person involved in the Programme has an interest material to the Programme.]/[●]

Historical interest rates: (Floating rate A CDs only)

Details of historical Reference Rate can be found: [●]

Operational Information

ISIN Code: [●]
Common Code: [●]

Any clearing system(s) other than Euroclear Bank S.A./N.V. and Clearstream Banking S.A. and the relevant identification number(s): [Not Applicable/[●]].

Delivery: Delivery [against/free of] payment.

Names and addresses of additional Paying Agent(s) (if any): [Not Applicable/[●] (*specify*)].

Prohibition of Offer to Private Clients in Switzerland: [Applicable/Not Applicable]

Relevant Benchmark[s]

[Include if applicable: *Specify benchmark*] is provided by [*administrator legal name*] [*repeat as necessary*]. [As at the date of these Final Terms, [*administrator legal name*] [appears]/[does not appear] [*repeat as necessary*] in the register of administrators and benchmarks established and maintained by ESMA pursuant to Article 36 of the EU Benchmarks Regulation.] [As far as the Issuer is aware, the transitional provisions in Article 51 of the EU Benchmarks Regulation apply, such that [*administrator legal name*] is not currently required to obtain authorisation or registration (or, if located outside the European Union, recognition, endorsement or equivalence).] / [As at the date of these Final Terms, [*administrator legal name*] [appears]/[does not appear] [*repeat as necessary*] in the register of administrators and benchmarks established and maintained by the FCA pursuant to Article 36 of the UK Benchmarks Regulation.] [As far as the Issuer is aware, the transitional provisions in Article 51 of the UK Benchmarks Regulation apply, such that [*administrator legal name*] is not currently required to obtain authorisation or registration (or, if located outside the United Kingdom, recognition, endorsement or equivalence).] / [Not Applicable]

FORM OF FINAL TERMS – B CDs

GOLDMAN SACHS INTERNATIONAL BANK

(LEI: N9FYJ29MC81JI74MJE92)

Issue of [Aggregate Nominal Amount of Tranche] [Title of B CDs] under the Certificate of Deposit Programme

Terms used herein shall be deemed to be defined as such in the Terms and Conditions of the B CDs set forth in the base prospectus dated 9 March 2023 (the "**Base Prospectus**") [and the supplement[s] to the Base Prospectus dated 9 March 2023] which [together] constitute[s] a base prospectus for the purposes of Regulation (EU) 2017/1129 (as amended or superseded, the "**EU Prospectus Regulation**"). This document constitutes the Final Terms of the B CDs described herein for the purposes of Article 8 of the EU Prospectus Regulation and must be read in conjunction with such Base Prospectus [as so supplemented] in order to obtain all the relevant information.

Full information on the Issuer and the Programme is only available on the basis of the combination of these Final Terms and the Base Prospectus [as so supplemented]. The Base Prospectus [and the supplement[s] to the Base Prospectus] [is] [are] available for viewing at www.luxse.com and during normal business hours at [address] [and copies may be obtained from [address]].

Series Number:	[●]
Specified Currency:	[●]
Nominal Amount of B CDs:	[●]
Issue Price:	[●] [Premium] [Discount]
Specified Denomination(s):	[●]
Issue Date:	[●]
Interest Commencement Date:	[●]/[Issue Date]
Maturity Date:	[●]
Interest Basis:	[[●] per cent. Fixed Rate] [[specify reference rate] +/- [●] per cent. Floating Rate] [Zero Coupon]
Day Count Fraction:	[[1/1 (ISDA)] [Actual/Actual (ISDA)] [Actual/Actual (ICMA)] [Actual/Actual (Bond)] [Actual/Actual (Euro)] [Actual/365 (Fixed)] [Actual/360 (ISDA)] [Actual/360 (ICMA)] [30/360 (ISDA)]]
Business Day:	[London]/[specify]
Interest Amount Payable:	Interest due on the Interest Payment Date will be an amount equal to the product of (a) the aggregate nominal amount of B CDs outstanding on the first day of the Interest Period, (b) the Day Count Fraction, and (c) the Interest Rate. Interest due will be rounded [up][down] to the nearest whole [●].
Interest Period:	The period from and including the Interest Commencement Date for the B CDs to but excluding the first Interest Payment Date for the B CDs and each successive period from and including the first day following the end of the preceding Interest Period to but excluding the following Interest Payment Date, until the principal of the B CDs is paid or made available for payment.

[Adjusted] [Unadjusted]

Provisions relating to interest (if any) payable

Fixed rate provisions	[Applicable/Not Applicable]
Interest Rate:	[[●] per cent. per annum] [For Step-Up B CDs / Step-Down B CDs: [●] per cent. per annum commencing on (and including) [date] until (but not including) [date] [●] per cent. per annum commencing on (and including) [date] until (but not including) [date] [●] per cent. per annum commencing on (and including) [date] until (but not including) the Maturity Date]]
Interest Payment Date[s]:	[●]
Business Day Convention:	[Not Applicable/Following Business Day Convention/Modified Business Day Convention/Preceding Business Day Convention]
Floating rate provisions	[Applicable/Not Applicable]
Interest Rate:	[The rate per annum equal to the Reference Rate for such Interest Period [plus]/[minus] [spread] per cent.] [For Step-Up B CDs / Step-Down B CDs: The rate per annum equal to the Reference Rate for such Interest Period [plus]/[minus] [spread] per cent. commencing on (and including) [date] until (but not including) [date] The rate per annum equal to the Reference Rate for such Interest Period [plus]/[minus] [spread] per cent. commencing on (and including) [date] until (but not including) [date] The rate per annum equal to the Reference Rate for such Interest Period [plus]/[minus] [spread] per cent. commencing on (and including) [date] until (but not including) Maturity Date]]
Interest Period:	[●]
Interest Payment Date[s]:	[●]
Business Day Convention:	[Not Applicable/Floating Rate Business Day Convention/Following Business Day Convention/Modified Business Day Convention/Preceding Business Day Convention]
Interest Reset Date[s]:	[●]
Reference Rate:	[●]-month [EURIBOR] / [SOFR] / [SONIA] / [€STR] / [GBP-SONIA] / [USD-SOFR] / [EUR-EuroSTR] / [CHF-SARON] / [HKD-HONIA] / [JPY-TONA] / [SGD-SORA] / [AUD-AONIA] / [USD-Federal Funds] / [EUR-EURIBOR] / [AUD-BBSW] / [HKD-HIBOR] / [JPY-TIBOR] / [SGD-SIBOR] / [AUD-AONIA-OIS Compound] / [CHF-SARON-OIS Compound] / [EUR-EuroSTR-OIS Compound] / [GBP-SONIA-OIS Compound] / [HKD-HONIA-OIS Compound] / [JPY-TONA-OIS Compound] / [SGD-SORA-OIS Compound] / [USD-Federal Funds-OIS Compound] / [USD-SOFR-OIS Compound]

Manner in which the Rate of Interest is to be determined:	[Screen Rate Determination/ISDA Determination]
Calculation Agent:	[Goldman Sachs International]/[●]
Screen Rate Determination	[Applicable/Not Applicable]
Reference Banks:	[●]/Not Applicable
Relevant Screen Page:	[●]/Not Applicable
Calculation Method:	[Compounded Daily (Non-Index Determination)/Weighted Average/Compounded Daily (Index Determination)/Not Applicable] <i>[Delete as appropriate. Complete for floating rate interest bearing B CDs only where the Reference Rate is specified as SONIA, SOFR or €STR. Compounded Daily (Index Determination) only available where the Reference Rate is specified as SONIA or SOFR.]</i>
Relevant Number:	[●]/Not Applicable <i>[Complete for floating rate interest bearing B CDs only where the Calculation Method is specified as Compounded Daily (Index Determination)]</i>
Observation Method:	[Lag/Lock-out/Shift/Not Applicable] <i>[Delete as appropriate. Complete for floating rate interest bearing B CDs only where the Reference Rate is specified as SONIA, SOFR or €STR]</i>
Observation Look-back Period:	[●]/Not Applicable <i>[Complete for floating rate interest bearing B CDs only where the Reference Rate is specified as SONIA, SOFR or €STR and the Observation Method is specified as Lag or Shift. Cannot be less than five Business Days prior to the relevant Interest Payment Date.]</i>
Lock-out Date:	[●]/Not Applicable <i>[Complete for floating rate interest bearing B CDs only where the Reference Rate is specified as SONIA, SOFR or €STR and the Observation Method is specified as Lock-out]</i>
p:	[●]/Not Applicable <i>[Cannot be less than five Business Days prior to the relevant Interest Payment Date.]</i>
D:	[●]/Not Applicable <i>[Complete for floating rate interest bearing B CDs only where the Reference Rate is specified as SONIA, SOFR or €STR]</i>
ISDA Determination	[Applicable/Not Applicable]
Overnight Rates:	[Applicable/Not Applicable] <i>[Include Applicable for floating rate interest bearing B CDs only and where the Reference Rate is GBP-SONIA, USD-SOFR, EUR-EuroSTR, CHF-SARON, HKD-HONIA, JPY TONA, SGD-SORA, AUD-AONIA or USD-Federal Funds and complete the line items in the rest of this section, otherwise include Not Applicable]</i>
Compounding/Averaging:	[Applicable/Not Applicable]
Compounding:	[Compounding with Lookback / Compounding with Observation Period Shift / Compounding with Lockout] [Not Applicable]

Averaging: [Averaging with Lookback / Averaging with Observation Period Shift / Averaging with Lockout]/[Not Applicable]

Lookback: [5] Applicable Business Days / [Not Applicable]

[Delete this field if Compounding with Lookback or Averaging with Lookback is not selected or Compounding/Averaging is specified as Not Applicable.]

Observation Period Shift: [5] Observation Period Shift Business Days] / [Not Applicable]

[Delete this field and the "Observation Period Shift Additional Business Days" field if Compounding with Observation Period Shift or Averaging with Observation Period Shift is not selected or Compounding/Averaging is specified as Not Applicable.]

Lockout: [5] Lockout Period Shift Business Days / [Not Applicable]

[Delete this field and "Lockout Period Business Days" field if Compounding with Lockout or Averaging with Lockout is not selected or Compounding/ Averaging is specified as Not Applicable.]

Observation Period Shift Additional Business Days: [●] / [Not Applicable]

Lockout Period Business Days: [●] / [Not Applicable]

[This field is to specify the financial centre(s) for the purposes of the Lockout Business Days. If none are specified and Not Applicable is selected, the Lockout Business Days will be the Applicable Business Days (i.e. the rate business days). This field should be completed and the parties may wish to refer to the Compounding/Averaging Matrix. As at December 2021 the number of Lockout Period Business Days for Compounding with Lockout and Averaging with Lockout in the Compounding/Averaging Matrix has not yet been populated for any of GBP-SONIA, USD-SOFR, EUR-EuroSTR, CHF-SARON, HKD-HONIA, JPY TONA, SGD-SORA, AUD-AONIA or USD-Federal Funds. However, the default designation is 5 Lockout Period Business Days in accordance with the 2021 ISDA Definitions. Note that when populated the Compounding/Averaging Matrix may not reflect the default designation]

Term Rates: [Applicable/Not Applicable]

[Include Applicable for floating rate interest bearing B CDs only and where the Reference Rate is EUR-EURIBOR, AUD-BBSW, HKD-HIBOR, JPY-TIBOR, SGD-SIBOR, otherwise include Not Applicable]

OIS Compounding Rates: [Applicable/Not Applicable]
[Include Applicable for floating rate interest bearing B CDs only where the Reference Rate is AUD-AONIA-OIS Compound, CHF-SARON-OIS Compound, EUR-EuroSTR-OIS Compound, GBP-SONIA-OIS Compound, HKD-HONIA-OIS Compound, JPY-TONA-OIS Compound, SGD-SORA-OIS Compound, USD-Federal Funds-OIS Compound or USD-SOFR-OIS Compound and complete the line items in the rest of this section, otherwise include Not Applicable]

Calculation Period: [●] / [Not Applicable]
[Needs to take into account the Fixing Date for the relevant Reference Rate specified in the Floating Rate Matrix]

Reference Rate Determination Date: [5] Applicable Business Days / [Not Applicable]
[This should be no less than 3 Business Days and no more than 5 Business Days prior to the relevant Interest Reset Date (taking into account the Fixing Day for the relevant Reference Rate, which may be the day after the relevant date in a Calculation Period)]

Zero Coupon [Applicable/Not Applicable]

Provisions relating to redemption

Redemption at the option of the Issuer: [Applicable/Not Applicable]

Redemption Commencement Date: [●]/Not Applicable

Redemption price(s): [●]/Not Applicable

Redemption period: [●]/Not Applicable

Provisions relating to Extendible B CDs

Extendible B CDs: [Applicable/Not Applicable] *[If the Issuer Extension Option is to apply more than once, each relevant Extension Date should be included below]*

[First] Extension Date: [●]

[First] Extended Maturity Date: [●] *[date or period]*

[First] Extension Notice Date: [●]

[First] Exercise Deadline [●]

Final Maturity Date: [●]/Not Applicable

General provisions

New global form: [Yes/No]

Intended to be held in a manner which would allow Eurosystem eligibility: [Yes/No]
[Yes. Note that the designation "yes" simply means that the B CDs are intended upon issue to be deposited with one of the ICSDs as common safekeeper and does not necessarily mean that the B CDs will be recognised as eligible collateral for Eurosystem monetary policy and intra day credit operations by

the Eurosystem either upon issue or at any or all times during their life. Such recognition will depend upon the ECB being satisfied that Eurosystem eligibility criteria have been met.] *[include this text if "Yes" selected in which case the B CDs must be issued in new global form].*

[No. Whilst the designation is specified as "no" at the date of these Final Terms, should the Eurosystem eligibility criteria be amended in the future such that the B CDs are capable of meeting them the B CDs may then be deposited with one of the ICSDs as common safekeeper. Note that this does not necessarily mean that the B CDs will then be recognised as eligible collateral for Eurosystem monetary policy and intra day credit operations by the Eurosystem at any time during their life. Such recognition will depend upon the ECB being satisfied that Eurosystem eligibility criteria have been met.]

Distribution

Method of Distribution: [Syndicated/Non-syndicated]

Name of the relevant Dealer: [●]/[Goldman Sachs International]/[Goldman Sachs Bank Europe SE]

Listing and admission to trading

Listing: [Official List of the Luxembourg Stock Exchange]/[Not Applicable]

Admission to trading: [Application has been made for the B CDs to be admitted to trading on the regulated market of the Luxembourg Stock Exchange with effect from [●]] [Not Applicable.]

Estimate of total expenses related to admission to trading: [●]/Not Applicable

Ratings: The B CDs to be issued have been rated:

[Fitch:[●]] *(Include a brief explanation of the meaning of the rating, if published)*

[S&P: [●]] *(Include a brief explanation of the meaning of the rating, if published)*

[Moody's: [●]] *(Include a brief explanation of the meaning of the rating, if published)*

[[Other]: [●]] *(Include a brief explanation of the meaning of the rating, if published)*

Indication of yield *[fixed rate/zero coupon B CDs only]*: [●] per annum

Historical interest rates: (Floating rate B CDs only)

Details of historical Reference Rate can be found: [●]

Interests of natural and legal persons involved in the Programme: [So far as the Issuer is aware, no person involved in the Programme has an interest material to the Programme.]/[●]

Use of Proceeds, estimated net proceeds

Use of Proceeds [●] [See ["*Use of Proceeds*"] in Base Prospectus / Give Details] (See "*Use of Proceeds*" wording in Base Prospectus – if use of proceeds differs from what is disclosed in the Base Prospectus, give details here.)

Estimated net proceeds: [●]

Operational Information

ISIN Code: [●]

Common Code: [●]

Any clearing system(s) other than Euroclear Bank S.A./N.V. and Clearstream Banking S.A. and the relevant identification number(s): [Not Applicable/[●]].

Delivery: Delivery [against/free of] payment.

Names and addresses of additional Paying Agent(s) (if any): [Not Applicable/[●] (*specify*)].

Prohibition of offer to Private Clients in Switzerland: [Applicable/Not Applicable]

Relevant Benchmark[s]

[*Include if applicable: [Specify benchmark] is provided by [administrator legal name] [repeat as necessary]. [As at the date of these Final Terms, [administrator legal name] [appears]/[does not appear] [repeat as necessary] in the register of administrators and benchmarks established and maintained by ESMA pursuant to Article 36 of the EU Benchmarks Regulation.] [As far as the Issuer is aware, the transitional provisions in Article 51 of the EU Benchmarks Regulation apply, such that [administrator legal name] is not currently required to obtain authorisation or registration (or, if located outside the European Union, recognition, endorsement or equivalence).] / [As at the date of these Final Terms, [administrator legal name] [appears]/[does not appear] [repeat as necessary] in the register of administrators and benchmarks established and maintained by the FCA pursuant to Article 36 of the UK Benchmarks Regulation.] [As far as the Issuer is aware, the transitional provisions in Article 51 of the UK Benchmarks Regulation apply, such that [administrator legal name] is not currently required to obtain authorisation or registration (or, if located outside the United Kingdom, recognition, endorsement or equivalence).] / [Not Applicable]*

USE OF PROCEEDS

Unless otherwise specified in the relevant Final Terms, the net proceeds from each issue of CDs will be used by the Issuer for its general banking purposes.

TAXATION

The following is an overview of certain United Kingdom and Foreign Account Tax Compliance Act tax considerations relating to the CDs. It does not constitute legal or tax advice. It does not purport to be a complete analysis of all tax considerations relating to the CDs, whether in the United Kingdom, United States or elsewhere. The summaries below are based on current UK and United States tax law and what is understood to be the published practice of HM Revenue & Customs ("HMRC") and the United States Internal Revenue Service at the date hereof, all of which are subject to change, possibly with retroactive effect. The UK tax comments below relate only to persons who are the absolute beneficial owners of CDs and may not apply to certain classes of holders, such as dealers in securities and holders who are connected with the Issuer for UK tax purposes, and do not necessarily apply where the income in respect of the CDs is deemed for UK tax purposes to be the income of any person other than the holder of the CDs. Special rules may apply to persons who carry on a trade of dealing in or developing UK land or carry on a UK property business or have other UK property income. Prospective purchasers of CDs under the Programme should be aware that ownership of the CDs, and any transactions involving the CDs, including the issue of any CDs, any purchase, disposal, lapse or redemption of, or other dealings in, the CDs and any transaction involved in the exercise and settlement of the CDs, may have tax consequences (including but not limited to withholding taxes and possible liabilities to stamp duties, transfer and registration taxes). The tax consequences may depend, amongst other things, upon the status and circumstances of the prospective purchaser, the terms and conditions of the particular CDs specified by the relevant Final Terms, and the applicable law and practice of taxation authorities in relevant jurisdictions. The following is a general guide and should be treated with appropriate caution. Prospective purchasers of any CDs should consult their own tax advisers in relevant jurisdictions about the tax implications of holding any CDs and of any transaction involving any CDs.

United Kingdom Tax Considerations

References to "interest" in this section mean interest as understood in UK tax law, which may include a premium but does not normally include original issue discount.

There is no UK withholding tax in respect of any payments on the CDs which constitute original issue discount. Payments of interest on the CDs issued by the Issuer will not be subject to withholding or deduction for or on account of UK taxation so long as the Issuer is a "bank" as defined by section 991 of the Income Tax Act 2007 ("ITA 2007") and the payment of interest is made in the ordinary course of the Issuer's business.

Even if payments of interest on the CDs do not fall to be exempt from UK withholding tax pursuant to the paragraph above, no withholding is required (subject to contrary direction from HMRC) in respect of payments to a holder whom the Issuer reasonably believes is the beneficial owner of the interest payable on the CDs and is either a company resident for tax purposes in the United Kingdom, or a company resident for tax purposes outside the United Kingdom carrying on a trade, profession or vocation in the United Kingdom through a UK permanent establishment where the payment is required to be brought into account in calculating the chargeable profits of that company for the purposes of UK corporation tax, or falls within various categories enjoying a special tax status (including charities and certain pension funds), or is a partnership consisting of such persons.

Furthermore, no withholding is required in the case of interest ("short interest") on CDs with a maturity date of less than one year from the date of issue (and where the borrowing under the CDs at no time forms part of a borrowing which has, or is intended to have, a total term of one year or more).

In all other cases, payments of interest will generally be subject to deduction of tax at the basic rate, which is currently 20 per cent. Holders of CDs who are resident for tax purposes in jurisdictions outside the United Kingdom may also be able to receive payment free of deductions or subject to a lower rate of deduction under an appropriate double taxation treaty and HMRC may issue a direction to that effect. However, any such direction will, in any case, be issued only on prior application to HMRC by the holder in question. If such a direction is not in place at the time a payment of interest is made, the Issuer may be required to withhold tax, although a holder of CDs resident in another jurisdiction who is entitled to such relief may subsequently claim from HMRC the amount, or a proportion of the amount, withheld.

The return on the CDs issued by the Issuer (whether interest or original issue discount) will have a UK source for tax purposes and, as such, may be subject to income tax by direct assessment even where paid

without withholding. However, interest or discount with a UK source received without deduction or withholding on account of UK tax will not generally be chargeable to UK income tax or corporation tax in the hands of a person who is not resident for tax purposes in the United Kingdom unless that person carries on a trade, profession or vocation in the United Kingdom through a branch or agency (or, for holders who are companies, through a permanent establishment) in the United Kingdom in connection with which the interest or discount is received or to which the CDs are attributable, in which case (subject to exemptions for interest or discount received by certain categories of agent) income tax or corporation tax may be levied on the UK branch, agency or permanent establishment.

Foreign Account Tax Compliance Withholding

The following overview of FATCA (as defined below) is for general information purposes only. Prospective purchasers of CDs should consult their own tax advisers regarding FATCA.

A US law commonly known as the Foreign Account Tax Compliance Act ("**FATCA**") could impose a withholding tax of 30 per cent. on payments on CDs paid to you or any non-US person or entity that receives such income (a "non-US payee") on your behalf, unless you and each non-US payee in the payment chain comply with the applicable information reporting, account identification, withholding, certification and other FATCA-related requirements. This withholding tax could apply to payments on the CDs no earlier than the date that is two years after the date on which final regulations defining "foreign passthru payments" are published by the US Treasury Department. However, this withholding tax will generally not apply to CDs unless they are treated as giving rise to "foreign passthru payments" and are issued after the date that is six months after the US Treasury Department issues final regulations defining "foreign passthru payments," (the "grandfathering deadline"). There are currently no rules regarding what constitutes a "foreign passthru payment" or specifying when the defining regulations will be issued.

Notwithstanding the above, if the terms of the CDs are modified after the grandfathering deadline in a way that would cause the CDs to be treated as reissued for US tax purposes, the CDs would cease to be exempt from the withholding tax described above after the modification. Changes related to an extension to the maturity date of your CDs may, depending on the terms of your CDs and the extension, cause your CDs to be treated as reissued for US tax purposes. In addition, the effective date for withholding discussed above reflects proposed regulations by the US Treasury Department which delay the effective date for withholding. The US Treasury Department have indicated that taxpayers may rely on the proposed regulations until final regulations are issued and the discussion above assumes that the proposed regulations will be finalised in their current form.

Even if this withholding tax were to apply to payments on any CDs, in the case of a payee that is a non-US financial institution (for example, a clearing system, custodian, nominee or broker), withholding generally will not be imposed if the financial institution complies with the requirements imposed by FATCA to collect and report (to the US or another relevant taxing authority) substantial information regarding such institution's US account holders (which would include some account holders that are non-US entities but have US owners). Other payees, including individuals, may be required to provide proof of tax residence or waivers of confidentiality laws and/or, in the case of non-US entities, certification or information relating to their US ownership.

Under this withholding regime, withholding may be imposed at any point in a chain of payments if the payee is not compliant. A chain may work as follows, for example: the payment is transferred through the Paying Agent to a clearing system, the clearing system makes a payment to each of the clearing system's participants, and finally the clearing system participant makes a payment to a non-US bank or broker through which you hold the CDs, who credits the payment to your account. Accordingly, if you receive payments through a chain that includes one or more non-US payees, such as a non-US bank or broker, the payment could be subject to withholding if, for example, your non-US bank or broker through which you hold the CDs fails to comply with the FATCA requirements and is subject to withholding. This would be the case even if you would not otherwise have been directly subject to withholding.

A number of countries have entered into, and other countries are expected to enter into, agreements with the US to facilitate the type of information reporting required under FATCA. While the existence of such agreements will not eliminate the risk that CDs will be subject to the withholding described above, these agreements are expected to reduce the risk of the withholding for investors in (or investors that indirectly hold CDs through financial institutions in) those countries. The US and the United Kingdom have entered

into such an agreement. Under this agreement, a financial institution that is resident in the United Kingdom and meets the requirements of the agreement will not be subject to the withholding described above on payments it receives and generally will not be required to withhold from non-US source income payments that it makes, including payments on the CDs.

The Issuer will not pay any additional amounts in respect of this withholding tax, so if this withholding applies, you will receive less than the amount that you would have otherwise received.

Depending on your circumstances, in the event the Issuer is required to withhold any amounts in respect of this withholding tax, you may be entitled to a refund or credit in respect of some or all of this withholding. However, even if you are entitled to have any such withholding refunded, the required procedures could be cumbersome and significantly delay your receipt of any withheld amounts. You should consult your own tax advisors regarding FATCA. You should also consult your bank or broker through which you would hold the CDs about the likelihood that payments to it (for credit to you) may become subject to withholding in the payment chain.

FORM OF THE GLOBAL A CDS

The securities covered hereby have not been registered under the US Securities Act of 1933, as amended (the "Securities Act") and may not be offered or sold within the United States or to, or for the account or benefit of, US persons. Terms used above have the meanings given to them by Regulation S under the Securities Act.

GOLDMAN SACHS INTERNATIONAL BANK A CERTIFICATE OF DEPOSIT

1. Goldman Sachs International Bank (the "**Issuer**") certifies that a sum has been deposited with it upon terms that on the Maturity Date as set out in the final terms attached hereto (the "**Final Terms**"), or such earlier date or dates as the same may become payable in accordance with paragraph 6 below, the Nominal Amount set out in the Final Terms is payable to the bearer together with interest thereon at the rate and at the times (if any) specified in the Final Terms. Terms defined in the Final Terms attached hereto but not otherwise defined in this Global A Certificate of Deposit ("**A CD**") shall have the same meaning in this Global A CD. If the Final Terms specify that the A CDs are Extendible A CDs and the Issuer Extension Option is applicable, the references herein to Maturity Date shall be to the then current Maturity Date as further provided in the Final Terms.
2. All such payments shall be made in accordance with an issue and paying agency agreement dated 9 March 2020 (as supplement on or around 7 March 2023) (and as further amended and restated or supplemented from time to time) between the Issuer and Deutsche Bank AG, London Branch as issue and paying agent (the "**Agent**"), a copy of which is available for inspection at the offices of the Agent, and subject to and in accordance with the terms and conditions set forth below. All such payments shall be made upon presentation and surrender of this Global A CD to or to the order of the Agent referred to above by transfer to an account denominated in the Specified Currency set out in the Final Terms maintained by the bearer with a bank in the principal financial centre in the country of that currency or, in the case of a Global A CD denominated or payable in euro by transfer to a euro account (or any other account to which euro may be credited or transferred) maintained by the payee with a bank in the principal financial centre of any member state of the European Union. If the Final Terms specify that the new global form is applicable, the Issuer shall procure that details of each payment of the Nominal Amount and interest shall be entered *pro rata* in the records of the Relevant Clearing Systems (as defined below) and in the case of any payment of principal, and upon any such entry being made, the nominal amount of the A CDs recorded in the records of the Relevant Clearing Systems and represented by this Global A CD shall be reduced by the aggregate nominal amount of the A CDs so redeemed. The Issuer shall maintain an Agent in Luxembourg for as long as the A CDs are admitted to listing on the Official List of the Luxembourg Stock Exchange and to trading on the regulated market of the Luxembourg Stock Exchange.
3. If the Final Terms specify that the new global form is applicable, the Nominal Amount of CDs represented by this Global A CD shall be the aggregate amount from time to time entered in the records of each of Euroclear Bank S.A./N.V., Clearstream Banking, S.A. and/or any such other securities clearance and/or settlement system as agreed between the Issuer and the relevant Dealer(s) (each a "**Relevant Clearing System**" and together, the "**Relevant Clearing Systems**"). The records of the Relevant Clearing Systems (which expression in this Global A CD means the records that each Relevant Clearing System holds for its customers which reflect the amount of such customer's interest in the A CDs (but excluding any interest in the A CDs of one clearing system shown in the records of the other clearing systems)) shall be conclusive evidence of the nominal amount of A CDs represented by the Global A CD and, for these purposes, a statement issued by a Relevant Clearing System (which statement shall be made available to the bearer of this Global A CD upon request) stating the Nominal Amount of A CDs represented by this Global A CD at any time shall be conclusive evidence of the records of such Relevant Clearing System at that time.
4. If the Final Terms specify that the new global form is not applicable, the Nominal Amount of the A CDs shall be the amount stated as the Nominal Amount in the Final Terms.

5. If the Final Terms specify that the A CDs represented by this Global A CD are Extendible A CDs, the Maturity Date will be extended at the option of the Issuer as specified in the Final Terms, unless a holder exercises its option not to extend the then current Maturity Date (a "**Non-Extension Option**") in respect of all or part of its holding of the A CDs represented by this Global A CD. On any valid exercise by a holder of its Non-Extension Option in respect of part of its holding of the A CDs represented by this Global A CD, the Issuer shall procure that the outstanding Nominal Amount of the A CDs represented by this Global A CD shall be reduced by the aggregate Nominal Amount of the A CDs so maturing.
6. Subject to paragraph 7 below, payments in respect of this Global A CD by or on behalf of the Issuer shall be made without set-off, counterclaim, fees, liabilities or similar deductions and free and clear of, and without deduction or withholding for or on account of, taxes, levies, duties, assessments or charges of any nature now or hereafter imposed, levied, collected, withheld or assessed ("**Taxes**") by or on behalf of the jurisdiction of incorporation of the Issuer (being, as of the date hereof, the United Kingdom) or any other jurisdiction through or from which payments by or on behalf of the Issuer are made, unless a deduction or withholding for or on account of Taxes is required by law. If the Issuer or any agent thereof is required by law to make any deduction or withholding for or on account of Taxes, the Issuer shall, to the extent permitted by applicable law, pay such additional amounts as shall be necessary in order that the net amounts received by the bearer of this Global A CD after such deduction or withholding shall equal the amount which would have been receivable hereunder in the absence of such deduction or withholding, except that no such additional amounts shall be payable where this Global A CD is presented for payment:
 - (a) by or on behalf of a holder which is liable to such Taxes by reason of its having some connection with the jurisdiction imposing the Taxes other than the mere holding of this Global A CD; or
 - (b) more than 15 days after the Maturity Date or, if applicable, the relevant Interest Payment Date or (in either case) the date on which payment hereof is duly provided for, whichever occurs later, except to the extent that the holder would have been entitled to such additional amounts if it had presented this Global A CD on the last day of such period of 15 days.
7. Any amounts to be paid on this A CD will be paid net of any deduction or withholding imposed or required pursuant to Sections 1471 through 1474 of the US Internal Revenue Code (the "**Code**"), any current or future regulations or official interpretations thereof, any agreement entered into pursuant to Section 1471(b) of the Code, or any fiscal or regulatory legislation, rules or practices adopted pursuant to any intergovernmental agreement entered into in connection with the implementation of such Sections of the Code, and no additional amounts will be required to be paid on account of any such deduction or withholding.
8. The A CDs may be redeemed at the option of the Issuer in whole or in part at any time on or after the redemption commencement date if specified in the Final Terms and, in the event of certain developments involving a change in law (including a change in tax law as a result of which the Issuer would be required to pay an additional amount as described in paragraph 6 above) or if it is or will become unlawful for the Issuer to perform any of its obligations under the A CDs, on giving not less than 35 days' notice to the holders, at their Nominal Amount (as specified in the Final Terms). If the Final Terms specify a redemption commencement date, they will also specify one or more redemption prices, which may be expressed as a percentage of the Nominal Amount of the A CD specified in the Final Terms. The Final Terms may also specify one or more redemption periods during which the specified redemption prices relating to a redemption of A CDs during those periods will apply.
9. The payment obligation of the Issuer represented by this Global A CD constitutes and at all times shall constitute a direct unsecured obligation of the Issuer ranking at least pari passu with all present and future unsecured and unsubordinated indebtedness of the Issuer other than obligations preferred by mandatory provisions of law applying to companies generally.
10. This Global A CD is negotiable and, accordingly, title hereto shall pass by delivery and the bearer shall be treated as being absolutely entitled to receive payment upon due presentation

hereof free and clear of any equity, set-off or counterclaim on the part of the Issuer against any previous bearer hereof.

11. This Global A CD is issued in respect of an issue of A CDs of the Issuer and is exchangeable in whole (but not in part only) for duly executed and authenticated bearer A CDs in definitive form (whether before, on or, subject as provided below, after the Maturity Date) if the clearing system(s) in which this Global A CD is held at the relevant time terminates its business without a successor.
12. If the Final Terms indicate that this is an interest bearing Global A CD, then upon each payment of interest (if any) prior to the Maturity Date in respect of this Global A CD:
 - (a) if the Final Terms indicate that the new global form is applicable, details of such payment shall be entered pro rata in the records of the Relevant Clearing Systems; or
 - (b) if the Final Terms indicate that the new global form is not applicable, Schedule 1 hereto shall be duly completed by the Paying Agent to reflect such payment;

and payments due in respect of A CDs for the time being represented by this Global A CD shall be made to the bearer of this Global A CD and each payment so made will discharge the Issuer's obligation in respect thereof. Any failure to make the entries referred to above shall not affect such discharge.

13. On any payment of interest being made in respect of, or purchase and cancellation of, any of the A CDs represented by this Global A CD, the Issuer shall procure that:
 - (a) if the Final Terms indicate that the new global form is applicable, details of such payment or purchase and cancellation (as the case may be) shall be entered pro rata in the records of each Relevant Clearing System and, upon any such entry being made in the case of a purchase and cancellation, the aggregate nominal amount of the A CDs recorded in the records of the Relevant Clearing System and represented by this Global A CD shall be reduced by the aggregate nominal amount of the A CDs so purchased and cancelled; or
 - (b) if the Final Terms indicate that the new global form is not applicable, details of such payment or purchase and cancellation (as the case may be) shall be entered by or on behalf of the Issuer in Schedule 2 hereto (such entry being prima facie evidence that the payment or, as the case may be, relevant purchase and cancellation in question has been made) and the relevant notation in Schedule 2 hereto recording any such payment or, as the case may be, purchase and cancellation shall be signed by or on behalf of the Issuer. Upon any such purchase and cancellation, the aggregate nominal amount of the A CDs represented by this Global A CD shall be reduced by the aggregate nominal amount of the A CDs so purchased and cancelled.

14. This Global A CD shall not be validly issued unless manually authenticated by Deutsche Bank AG, London Branch as Agent, and if the Final Terms indicate that the new global form is applicable and/or if it is delivered by Deutsche Bank AG, London Branch as Agent to the entity appointed as common safekeeper for the Relevant Clearing System(s) (the "**Common Safekeeper**") by electronic means, effectuated by the Common Safekeeper.

15. Except as other stated in this Global A CD, this Global A CD is subject to the Terms and Conditions of the A CDs set forth in the base prospectus dated on or around 7 March 2023 and, until this Global A CD is exchanged for duly executed and authenticated A CDs in definitive form as provided herein, the holder of this Global A CD shall be entitled to the same benefits as if it were the holder of A CDs in definitive form for which it may be exchanged and as if such A CDs in definitive form had been issued on the Issue Date specified in the Final Terms.

16. This Global A CD and any non-contractual obligations arising out of or in connection with it are governed by, and shall be construed in accordance with, English law.

17. The English courts have exclusive jurisdiction to settle any dispute arising out of or in connection with this Global A CD (including a dispute regarding the existence, validity or termination of this Global A CD). The parties to this Global A CD agree that the English courts

are the most appropriate and convenient courts to settle any such dispute and accordingly no such party will argue to the contrary.

- 18.** No person shall have any right to enforce any provision of this Global A CD under the Contracts (Rights of Third Parties) Act 1999 but this does not affect any right or remedy of any person which exists or is available apart from that Act.

AUTHENTICATED as Issuing
and Paying Agent by
**DEUTSCHE BANK AG,
LONDON BRANCH**

without recourse, warranty or liability and for
authentication purposes only

By: _____
(*Authorised Signatory*)

Signed on behalf of:

**GOLDMAN SACHS INTERNATIONAL
BANK**

By: _____
(*Authorised Signatory*)

[EFFECTUATED by or on behalf of the Common
Safekeeper]

[COMMON SAFEKEEPER]

as Common Safekeeper

By: _____
(*Authorised Signatory*)

[For the purposes of effectuation only]

SCHEDULE 1

FIXED RATE INTEREST PAYMENTS

Date Made	Payment From	Payment To	Amount Paid	Notation on behalf of Paying Agent

FLOATING RATE INTEREST PAYMENTS

(First two columns to be completed at time of issue.)

Period From	To	Date of Payment	Interest Rate per annum	Amount of Interest	Notation on behalf of Paying Agent

SCHEDULE 2

PRINCIPAL AMOUNT OF THIS GLOBAL A CD

Reductions in the principal amount of this Global A CD following redemption or the purchase and cancellation or the exercise of a Non-Extension Option of A CDs are entered in the second and third columns below:

Date	Reason for the reduction in the principal amount of this Global A CD¹	Amount of such reduction	Principal amount of this Global A CD following such reduction	Notation on behalf of Paying Agent

¹ State whether reduction following (1) redemption of CDs (2) purchase and cancellation of CDs or (3) valid exercise of a Non-Extension Option

FORM OF THE GLOBAL B CDS

The securities covered hereby have not been registered under the US Securities Act of 1933, as amended (the "**Securities Act**") and may not be offered or sold within the United States or to, or for the account or benefit of, US persons. Terms used above have the meanings given to them by Regulation S under the Securities Act.

GOLDMAN SACHS INTERNATIONAL BANK B CERTIFICATE OF DEPOSIT

1. Goldman Sachs International Bank (the "**Issuer**") certifies that a sum has been deposited with it upon terms that on the Maturity Date as set out in the final terms attached hereto (the "Final Terms"), or such earlier date or dates as the same may become payable in accordance with paragraph 6 below, the Nominal Amount set out in the Final Terms is payable to the bearer together with interest thereon at the rate and at the times (if any) specified in the Final Terms. Terms defined in the Final Terms attached hereto but not otherwise defined in this Global B Certificate of Deposit ("**B CD**") shall have the same meaning in this Global B CD. If the Final Terms specify that the B CDs are Extendible B CDs and the Issuer Extension Option is applicable, the references herein to Maturity Date shall be to the then current Maturity Date as further provided in the Final Terms.
2. All such payments shall be made in accordance with an issue and paying agency agreement dated 9 March 2020 (as supplement on or around 7 March 2023 (and as further amended and restated or supplemented from time to time) between the Issuer and Deutsche Bank AG, London Branch as issue and paying agent (the "**Agent**"), a copy of which is available for inspection at the offices of the Agent, and subject to and in accordance with the terms and conditions set forth below. All such payments shall be made upon presentation and surrender of this Global B CD to or to the order of the Agent referred to above by transfer to an account denominated in the Specified Currency set out in the Final Terms maintained by the bearer with a bank in the principal financial centre in the country of that currency or, in the case of a Global B CD denominated or payable in euro by transfer to a euro account (or any other account to which euro may be credited or transferred) maintained by the payee with a bank in the principal financial centre of any member state of the European Union. If the Final Terms specify that the new global form is applicable, the Issuer shall procure that details of each payment of the Nominal Amount and interest shall be entered pro rata in the records of the Relevant Clearing Systems (as defined below) and in the case of any payment of principal, and upon any such entry being made, the nominal amount of the B CDs recorded in the records of the Relevant Clearing Systems and represented by this Global B CD shall be reduced by the aggregate nominal amount of the B CDs so redeemed. The Issuer shall maintain an Agent in Luxembourg for as long as the B CDs are admitted to listing on the Official List of the Luxembourg Stock Exchange and to trading on the regulated market of the Luxembourg Stock Exchange.
3. If the Final Terms specify that the new global form is applicable, the Nominal Amount of B CDs represented by this Global B CD shall be the aggregate amount from time to time entered in the records of each of Euroclear Bank S.A./N.V., Clearstream Banking, S.A. and/or any such other securities clearance and/or settlement as agreed between the Issuer and the relevant Dealer(s) (each a "**Relevant Clearing System**" and together, the "**Relevant Clearing Systems**"). The records of the Relevant Clearing Systems (which expression in this Global B CD means the records that each Relevant Clearing System holds for its customers which reflect the amount of such customer's interest in the B CDs (but excluding any interest in the B CDs of one clearing system shown in the records of the other clearing systems)) shall be conclusive evidence of the nominal amount of B CDs represented by the Global B CD and, for these purposes, a statement issued by a Relevant Clearing System (which statement shall be made available to the bearer of this Global B CD upon request) stating the Nominal Amount of B CDs represented by this Global B CD at any time shall be conclusive evidence of the records of such Relevant Clearing System at that time.
4. If the Final Terms specify that the new global form is not applicable, the Nominal Amount of the B CDs shall be the amount stated as the Nominal Amount in the Final Terms.
5. If the Final Terms specify that the B CDs represented by this Global B CD are Extendible B CDs, the Maturity Date will be extended at the option of the Issuer as specified in the Final

Terms unless a holder exercises its option not to extend the then current Maturity Date (a "**Non-Extension Option**") in respect of all or part of its holding of the B CDs represented by this Global B CD. On any valid exercise by a holder of its Non-Extension Option in respect of part of its holding of the B CDs represented by this Global B CD, the Issuer shall procure that the outstanding Nominal Amount of the B CDs represented by this Global B CD shall be reduced by the aggregate Nominal Amount of the B CDs so maturing.

6. Subject to paragraph 7 below, payments in respect of this Global B CD by or on behalf of the Issuer shall be made without set-off, counterclaim, fees, liabilities or similar deductions and free and clear of, and without deduction or withholding for or on account of, taxes, levies, duties, assessments or charges of any nature now or hereafter imposed, levied, collected, withheld or assessed ("**Taxes**") by or on behalf of the jurisdiction of incorporation of the Issuer (being, as of the date hereof, the United Kingdom) or any other jurisdiction through or from which payments by or on behalf of the Issuer are made, unless a deduction or withholding for or on account of Taxes is required by law. If the Issuer or any agent thereof is required by law to make any deduction or withholding for or on account of Taxes, the Issuer shall, to the extent permitted by applicable law, pay such additional amounts as shall be necessary in order that the net amounts received by the bearer of this Global B CD after such deduction or withholding shall equal the amount which would have been receivable hereunder in the absence of such deduction or withholding, except that no such additional amounts shall be payable where this Global B CD is presented for payment:
 - (a) by or on behalf of a holder which is liable to such Taxes by reason of its having some connection with the jurisdiction imposing the Taxes other than the mere holding of this Global B CD; or
 - (b) more than 15 days after the Maturity Date or, if applicable, the relevant Interest Payment Date or (in either case) the date on which payment hereof is duly provided for, whichever occurs later, except to the extent that the holder would have been entitled to such additional amounts if it had presented this Global B CD on the last day of such period of 15 days.
7. Any amounts to be paid on this B CD will be paid net of any deduction or withholding imposed or required pursuant to Sections 1471 through 1474 of the US Internal Revenue Code (the "**Code**"), any current or future regulations or official interpretations thereof, any agreement entered into pursuant to Section 1471(b) of the Code, or any fiscal or regulatory legislation, rules or practices adopted pursuant to any intergovernmental agreement entered into in connection with the implementation of such Sections of the Code, and no additional amounts will be required to be paid on account of any such deduction or withholding.
8. The B CDs may be redeemed at the option of the Issuer in whole or in part at any time on or after the redemption commencement date if specified in the Final Terms and, in the event of certain developments involving a change in law (including a change in tax law as a result of which the Issuer would be required to pay an additional amount as described in paragraph 6 above) or if it is or will become unlawful for the Issuer to perform any of its obligations under the B CDs, on giving not less than 35 days' notice to the holders, at their Nominal Amount (as specified in the Final Terms). If the Final Terms specify a redemption commencement date, they will also specify one or more redemption prices, which may be expressed as a percentage of the Nominal Amount of the B CD specified in the Final Terms. The Final Terms may also specify one or more redemption periods during which the specified redemption prices relating to a redemption of B CDs during those periods will apply.
9. The payment obligation of the Issuer represented by this Global B CD constitutes and at all times shall constitute a direct unsecured obligation of the Issuer ranking at least pari passu with all present and future unsecured and unsubordinated indebtedness of the Issuer other than obligations preferred by mandatory provisions of law applying to companies generally.
10. This Global B CD is negotiable and, accordingly, title hereto shall pass by delivery and the bearer shall be treated as being absolutely entitled to receive payment upon due presentation hereof free and clear of any equity, set-off or counterclaim on the part of the Issuer against any previous bearer hereof.

11. This Global B CD is issued in respect of an issue of B CDs of the Issuer and is exchangeable in whole (but not in part only) for duly executed and authenticated bearer B CDs in definitive form (whether before, on or, subject as provided below, after the Maturity Date) if the clearing system(s) in which this Global B CD is held at the relevant time terminates its business without a successor.
12. If the Final Terms indicate that this is an interest bearing Global B CD, then upon each payment of interest (if any) prior to the Maturity Date in respect of this Global B CD:
 - (a) if the Final Terms indicate that the new global form is applicable, details of such payment shall be entered pro rata in the records of the Relevant Clearing Systems; or
 - (b) if the Final Terms indicate that the new global form is not applicable, Schedule 1 hereto shall be duly completed by the Paying Agent to reflect such payment;and payments due in respect of B CDs for the time being represented by this Global B CD shall be made to the bearer of this Global B CD and each payment so made will discharge the Issuer's obligation in respect thereof. Any failure to make the entries referred to above shall not affect such discharge.
13. On any payment of interest being made in respect of, or purchase and cancellation of, any of the B CDs represented by this Global B CD, the Issuer shall procure that:
 - (a) if the Final Terms indicate that the new global form is applicable, details of such payment or purchase and cancellation (as the case may be) shall be entered pro rata in the records of each Relevant Clearing System and, upon any such entry being made in the case of a purchase and cancellation, the aggregate nominal amount of the B CDs recorded in the records of the Relevant Clearing System and represented by this Global B CD shall be reduced by the aggregate nominal amount of the B CDs so purchased and cancelled; or
 - (b) if the Final Terms indicate that the new global form is not applicable, details of such payment or purchase and cancellation (as the case may be) shall be entered by or on behalf of the Issuer in Schedule 2 hereto (such entry being prima facie evidence that the payment or, as the case may be, relevant purchase and cancellation in question has been made) and the relevant notation in Schedule 2 hereto recording any such payment or, as the case may be, purchase and cancellation shall be signed by or on behalf of the Issuer. Upon any such purchase and cancellation, the aggregate nominal amount of the B CDs represented by this Global B CD shall be reduced by the aggregate nominal amount of the B CDs so purchased and cancelled.
14. This Global B CD shall not be validly issued unless manually authenticated by Deutsche Bank AG, London Branch as Agent, and if the Final Terms indicate that the new global form is applicable and/or if it is delivered by Deutsche Bank AG, London Branch as Agent to the entity appointed as common safekeeper for the Relevant Clearing System(s) (the "**Common Safekeeper**") by electronic means, effectuated by the Common Safekeeper.
15. Except as other stated in this Global B CD, this Global B CD is subject to the Terms and Conditions of the B CDs set forth in the base prospectus dated on or around 7 March 2023 and, until this Global B CD is exchanged for duly executed and authenticated B CDs in definitive form as provided herein, the holder of this Global B CD shall be entitled to the same benefits as if it were the holder of B CDs in definitive form for which it may be exchanged and as if such B CDs in definitive form had been issued on the Issue Date specified in the Final Terms.
16. This Global B CD and any non-contractual obligations arising out of or in connection with it are governed by, and shall be construed in accordance with, English law.
17. The English courts have exclusive jurisdiction to settle any dispute arising out of or in connection with this Global B CD (including a dispute regarding the existence, validity or termination of this Global B CD). The parties to this Global B CD agree that the English courts are the most appropriate and convenient courts to settle any such dispute and accordingly no such party will argue to the contrary.

- 18.** No person shall have any right to enforce any provision of this Global B CD under the Contracts (Rights of Third Parties) Act 1999 but this does not affect any right or remedy of any person which exists or is available apart from that Act.

AUTHENTICATED as Issuing
and Paying Agent by
**DEUTSCHE BANK AG,
LONDON BRANCH**

without recourse, warranty or liability and for
authentication purposes only

By: _____
(*Authorised Signatory*)

Signed on behalf of:

**GOLDMAN SACHS INTERNATIONAL
BANK**

By: _____
(*Authorised Signatory*)

[EFFECTUATED by or on behalf of the Common
Safekeeper]

[COMMON SAFEKEEPER]

as Common Safekeeper

By: _____
(*Authorised Signatory*)

[For the purposes of effectuation only]

SCHEDULE 1

FIXED RATE INTEREST PAYMENTS

Date Made	Payment From	Payment To	Amount Paid	Notation on behalf of Paying Agent

FLOATING RATE INTEREST PAYMENTS

(First two columns to be completed at time of issue.)

Period From	To	Date of Payment	Interest Rate per annum	Amount of Interest	Notation on behalf of Paying Agent

SCHEDULE 2

PRINCIPAL AMOUNT OF THIS GLOBAL B CD

Reductions in the principal amount of this Global B CD following redemption or the purchase and cancellation or the exercise of a Non-Extension Option of B CDs are entered in the second and third columns below:

Date	Reason for the reduction in the principal amount of this Global B CD²	Amount of such reduction	Principal amount of this Global B CD following such reduction	Notation on behalf of Paying Agent

² State whether reduction following (1) redemption of CDs (2) purchase and cancellation of CDs or (3) valid exercise of a Non-Extension Option

SUBSCRIPTION AND SALE

Save for the approval of this Base Prospectus as a Base Prospectus for the purpose of Article 8 of the EU Prospectus Regulation by the CSSF, no action has been or will be taken by the Issuer that would permit a public offering of the CDs or possession or distribution of any offering material in relation to the CDs in any jurisdiction where action for that purpose is required. No offers or sales of any CDs, or distribution of any offering material relating to the CDs, may be made in or from any jurisdiction except in circumstances, which will result in compliance with any applicable laws and regulations and will not impose any obligation on the Issuer.

The United States of America

The CDs have not been nor will be registered under the Securities Act and the CDs may not be offered or sold within the United States or to, or for the account or benefit of, US persons except in certain transactions exempt from the registration requirements of the Securities Act. Each Dealer has represented and agreed, and each further Dealer appointed under the Programme will be required to represent and agree, that it has offered and sold, and will offer and sell, CDs only outside the United States to non-US persons in accordance with Rule 903 of Regulation S under the Securities Act ("**Regulation S**"). Accordingly, each Dealer has represented and agreed that neither it, nor its affiliates nor any person acting on its or their behalf has engaged or will engage in any directed selling efforts with respect to the CDs and that it and they have complied and will comply with the offering restrictions requirement of Regulation S. Each Dealer has also each agreed that, at or prior to confirmation of sale of CDs, it will have sent to each distributor, dealer or person receiving a selling commission, fee or other remuneration that purchases CDs from it a confirmation or notice to substantially the following effect:

"The Securities covered hereby have not been registered under the United States Securities Act of 1933, as amended (the "**Securities Act**") and may not be offered or sold within the United States or to, or for the account or benefit of, US persons. Terms used above have the meanings given to them by Regulation S under the Securities Act."

Terms used in this paragraph have the meanings given to them by Regulation S.

Prohibition of sales to EEA Retail Investors

Each Dealer has represented and agreed, and each further Dealer appointed under the Programme will be required to represent and agree, that it has not offered, sold or otherwise made available and will not offer, sell or otherwise make available any CDs which are the subject of the offering contemplated by this Base Prospectus as completed by the Final Terms in relation thereto to any retail investor in the European Economic Area. For the purposes of this provision:

- (a) the expression retail investor means a person who is one (or more) of the following:
 - (i) a retail client as defined in point (11) of Article 4(1) of Directive 2014/65/EU (as amended or superseded, "**MiFID II**"); or
 - (ii) a customer within the meaning of Directive (EU) 2016/97 (as amended or superseded, the "**Insurance Distribution Directive**"), where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or
 - (iii) not a qualified investor as defined in Regulation (EU) 2017/1129 (as amended or superseded, the "**EU Prospectus Regulation**"); and
- (b) the expression an "**offer**" includes the communication in any form and by any means of sufficient information on the terms of the offer and the CDs to be offered so as to enable an investor to decide to purchase or subscribe for the CDs.

This Base Prospectus has been prepared on the basis that any offer of the CDs in any member state of the European Economic Area will be made pursuant to an exemption under the EU Prospectus Regulation from the requirement to publish a prospectus for offers of the CDs. Accordingly, any person making or intending to make an offer in any such member state of the CDs which are the subject of the offering contemplated in this Base Prospectus as completed by Final Terms in relation to the offer of those CDs may only do so in circumstances in which no obligation arises for the Issuer or any Dealer to publish a

prospectus pursuant to Article 3 of the EU Prospectus Regulation or supplement a prospectus pursuant to Article 23 of the EU Prospectus Regulation, in each case, in relation to such offer. Neither the Issuer nor the Dealers have authorised, nor do they authorise, the making of any offer of CDs in circumstances in which an obligation arises for the Issuer or the Dealers to publish a prospectus for such offer.

Prohibition of sales to UK Retail Investors

Each Dealer has represented and agreed, and each further Dealer appointed under the Programme will be required to represent and agree, that it has not offered, sold or otherwise made available and will not offer, sell or otherwise make available any CDs which are the subject of the offering contemplated by this Base Prospectus as completed by the Final Terms in relation thereto to any retail investor in the United Kingdom. For the purposes of this provision:

- (a) the expression retail investor means a person who is one (or more) of the following:
 - (i) a retail client, as defined in point (8) of Article 2 of Regulation (EU) No 2017/565 as it forms part of United Kingdom domestic law by virtue of the European Union (Withdrawal) Act 2018 (the "EUWA") and the regulations made under the EUWA; or
 - (ii) a customer within the meaning of the provisions of the Financial Services and Markets Act 2000 (as amended, the "FSMA") and any rules or regulations made under the FSMA to implement Directive (EU) 2016/97, where that customer would not qualify as a professional client, as defined in point (8) of Article 2(1) of Regulation (EU) No 600/2014 as it forms part of United Kingdom domestic law by virtue of the EUWA and the regulations made under the EUWA; or
 - (iii) not a qualified investor as defined in Article 2 of Regulation (EU) 2017/1129 as it forms part of United Kingdom domestic law by virtue the EUWA and the regulations made under the EUWA (the "**UK Prospectus Regulation**"); and
- (b) the expression an "**offer**" includes the communication in any form and by any means of sufficient information on the terms of the offer and the CDs to be offered so as to enable an investor to decide to purchase or subscribe for the CDs.

This Base Prospectus has been prepared on the basis that any offer of the CDs in the United Kingdom will be made pursuant to an exemption under the UK Prospectus Regulation from the requirement to publish a prospectus for offers of the CDs. Accordingly, any person making or intending to make an offer in the United Kingdom of the CDs which are the subject of the offering contemplated in this Base Prospectus as completed by Final Terms in relation to the offer of those CDs may only do so in circumstances in which no obligation arises for the Issuer or any Dealer to publish a prospectus pursuant to section 85 of the FSMA or supplement a prospectus pursuant to Article 23 of the UK Prospectus Regulation, in each case, in relation to such offer. Neither the Issuer nor the Dealers have authorised, nor do they authorise, the making of any offer of CDs in circumstances in which an obligation arises for the Issuer or the Dealers to publish a prospectus for such offer.

The United Kingdom

Each Dealer has represented and agreed, and each further Dealer appointed under the Programme will be required to represent and agree, that:

- (a) in relation to any CDs which have a maturity of less than one year, (i) it is a person whose ordinary activities involve it in acquiring, holding, managing or disposing of investments (as principal or agent) for the purposes of its business and (ii) it has not offered or sold and will not offer or sell any CDs other than to persons whose ordinary activities involve them in acquiring, holding, managing or disposing of investments (as principal or as agent) for the purposes of their businesses or who it is reasonable to expect will acquire, hold, manage or dispose of investments (as principal or agent) for the purposes of their businesses where the issue of the CDs would otherwise constitute a contravention of Section 19 of the FSMA by the Issuer;
- (b) it has only communicated or caused to be communicated and will only communicate or cause to be communicated an invitation or inducement to engage in investment activity (within the

meaning of Section 21 of the FSMA) received by it in connection with the issue or sale of any CDs in circumstances in which Section 21(1) of the FSMA does not apply to the Issuer; and

- (c) it has complied and will comply with all applicable provisions of the FSMA with respect to anything done by it in relation to such CDs in, from or otherwise involving the United Kingdom.

Switzerland

Each Dealer has represented and agreed, and each further Dealer appointed under the Programme will be required to represent and agree, that it has not made and will not make a public offer of CDs to private clients in Switzerland. The Issuer has not authorised and does not authorise any offer of CDs which would require the Issuer or any Dealer to publish a prospectus pursuant to article 35 of the Swiss Federal Financial Services Act ("**FinSA**") in respect of such offer. For the purposes of this provision, the expression "public offer" refers to the respective definitions in article 3 lit. g and h FinSA and as further detailed in the implementing Financial Services Ordinance ("**FinSO**").

GENERAL INFORMATION

Corporate Authorisation

The establishment of the Programme and the issue of the CDs has been authorised pursuant to a resolution of the board of directors of the Issuer dated 25 February 2014.

Clearing Systems

The CDs have been accepted for clearance through Euroclear and Clearstream, Luxembourg. The common code and the ISIN for each Series of CDs will be specified in the Final Terms relating thereto. The address of Euroclear is Euroclear Bank S.A./N.V., 1 Boulevard Du Roi Albert II, 1210 Brussels, Belgium and the address of Clearstream, Luxembourg is Clearstream Banking, S.A. 42 Avenue J. F. Kennedy, L-1855, Luxembourg.

Documents on Display

The following documents may be inspected on the website set out next to their description below:

- (a) the Articles of Association and other relevant constitutional documents of the Issuer at <https://beta.companieshouse.gov.uk/company/01122503>;
- (b) the audited financial statements of the Issuer for the period ended 31 December 2020 and for the year ended 31 December 2021 together with the notes thereto and the auditors' report thereof at the following links respectively:
 - (i) <https://www.goldmansachs.com/investor-relations/financials/current/subsidiary-financial-info/gsib/gsib-12-31-2020-financial-statements.pdf>; and
 - (ii) <https://www.goldmansachs.com/investor-relations/financials/subsidiary-financial-info/gsib/2021/gsib-12-31-2021-financial-statements.pdf>;
- (c) the Base Prospectus and any supplements thereto at www.luxse.com;
- (d) any Final Terms relating to the CDs which are listed on any stock exchange at www.luxse.com; and
- (e) all other reports, letters and other documents, valuations and statements prepared by any expert at the Issuer's request any part of which is included or referred to in this Base Prospectus at <https://www.goldmansachs.com/investor-relations/index.html>.

A copy of this Base Prospectus and any supplements thereto will be available for inspection for a period of 10 years following the date of this Base Prospectus at <https://www.luxse.com/issuer/GoldmaSachIntBk/71091>.

Any information on the Issuer's website does not form part of the Base Prospectus and has not been scrutinised or approved by the competent authority unless incorporated by reference into the Base Prospectus.

Legal Entity Identifier (LEI) of the Issuer

The LEI of the Issuer is N9FYJ29MC81JI74MJE92.

Listing and Admission to Trading

If indicated in the applicable Final Terms, application has been made to list the CDs issued under this Base Prospectus on the official list of the Luxembourg Stock Exchange and to be admitted to trading on the regulated market of the Luxembourg Stock Exchange, which is a regulated market for the purposes of MiFID II.

As long as any CDs are listed on the official list of the Luxembourg Stock Exchange and admitted to trading on the regulated market of the Luxembourg Stock Exchange, the Issuer will maintain a paying

agent in Luxembourg. The paying agent and listing agent in Luxembourg is Banque Internationale à Luxembourg, *société anonyme*.

No Material Adverse or Significant Change

There has been no material adverse change in the prospects of the Issuer since 31 December 2021.

There has been no significant change in the financial position or financial performance of the Issuer since 31 December 2021.

In the foregoing statements required by the EU Prospectus Regulation, references to the "prospects" and "financial position or financial performance" of the Issuer, are specifically to the ability of the Issuer to meet its full payment obligations under the CDs in a timely manner. Material information about the Issuer's financial condition and prospects are included in the audited financial statements of the Issuer for the year ended 31 December 2021 and the period ended 31 December 2020, which are incorporated by reference into this Base Prospectus.

Yield

In relation to any series of fixed rate CDs, an indication of yield in respect of such CDs will be specified in the applicable Final Terms. The yield is calculated as the issue date of the CDs on the basis of the relevant Issue Price. The yield indicated will be calculated as the yield to maturity as at the issue date of the CDs and will not be an indication of future yield.

REGISTERED OFFICE OF THE ISSUER

Goldman Sachs International Bank

Plumtree Court
25 Shoe Lane
London EC4A 4AU
United Kingdom

Issuing and Paying Agent

Deutsche Bank AG, London Branch

1 Great Winchester St
London EC2N 2DB
United Kingdom

Dealers

Goldman Sachs International

Plumtree Court
25 Shoe Lane
London EC4A 4AU
United Kingdom

Goldman Sachs Bank Europe SE

Messe-Turm
Friedrich-Ebert-Anlage 49
60308 Frankfurt am Main
Germany

LEGAL ADVISER TO THE ISSUER

Ashurst LLP

London Fruit & Wool Exchange
1 Duval Square
London E1 6PW
United Kingdom

AUDITORS

Independent Auditors of the Issuer

In respect of the period ended 30 December 2020:

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In respect of the financial year ended 31 December 2021:

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