

Structured Product - Summary of Terms

18-Month USD Bonus Certificate on VanEck Vectors Gold Miners ETF

Issued by Royal Bank of Canada, Toronto

Arranger: Banque Pictet & Cie SA | 11 August 2022 | Pictet ID: AB4TAX | ISIN: XS2497687744

This structured product is not a collective investment scheme and is not subject to the authorization of the FINMA (the Swiss Financial Markets Supervisory Authority).

This Summary of Terms does not constitute a Swiss Simplified Prospectus as per article 5 CISA.

This structured product is not issued by an entity of the Pictet Group. Please refer to the documentation of the Issuer (such as, but not limited to, the attached term-sheet and any other relevant documents including the issue prospectus, if available) which shall prevail in case of discrepancies with any information contained in this Summary of Terms. The information and data furnished in this material are for information purposes only.

The selling restrictions and tax treatment are set out in the documentation of the Issuer.

Issuer	Royal Bank of Canada, Toronto	Issue Date	17.08.2022
Issuer Rating	(Fitch / S&P / Moody's) - (NA/AA-/Aa2)	Final Valuation Date	12.02.2024
SVSP	1320	Maturity Date	20.02.2024
Currency	USD	Knock-In Type	European
Denomination	USD 1'000	Bonus Barrier Level	70% of Initial Level
Issuance Type	Note, unsecured, unsubordinated obligations of the Issuer	Redemption Type	Cash
Issue Price	100% of Denomination	Cap Level	130%
Underlying	Single (see below Component Information table)	Maximum Redemption	130%
Strike Level	100% of Initial Level	Bonus Level	21.5%
Launch Date	10.08.2022	Upside Participation	100%

Components Information

i	Name	Bloomberg Ticker	Currency	Initial Valuation Date	Initial Level	Fixing	Strike Level	Knock-In Barrier
1	VanEck Vectors Gold Miners ETF	GDX UP Equity	USD	10.08.2022	27.323	Live	27.323	19.1261

Product Mechanism

This structured product is denominated in US Dollars with a maturity of 18 months.

On Maturity Date, the investor will receive:

- 100% + Min{Maximum Redemption - 1 ; Max(Bonus Level; [Final Underlying Level / Initial Underlying Level - 1])} of the Denomination , if the Underlying is at or above its Protection Barrier on the Final Valuation Date.
- Otherwise, the investor receives a cash amount equal to 100% of the Denomination \times Final Level / Strike Level.

Key Risks

The value of the structured product may depend not only on the performance of the components and the specific mechanism of the structured product, but also, among others, on the credit rating of the Issuer. The investor is exposed to the risk of insolvency of the Issuer/guarantor of the structured product (counterparty risk).

On top of that, the investor may face the liquidity risk, meaning that they may not be able to instantly sell the product in the market or to obtain a price for the structured product due to the lack of demand on the relevant market.

Please refer to the documentation of the Issuer for additional specific risks pertaining to the structured product.

The Pictet **PRR** (Product Risk Ranking) is a measure that categorizes the intrinsic risk of a financial instrument in 5 levels (from 1 = "Very Low Risk" to 5 = "Very High Risk"). The methodology used to compute the PRR considers the risk of the underlying asset class, the risk derived from the specificities of the instrument but also the risk derived from the market conditions.

HISTORICAL GRAPH OF VANECK VECTORS GOLD MINERS ETF (BLOOMBERG TICKER: GDX UP EQUITY)



Source: Pictet

Past performance must not be considered an indicator or guarantee of future performance. No express or implied warranty is given as to future performance. Changes in foreign-exchange rates may also cause the value of the investment to go up or down. For illustration purpose only, the information and prices are indicative.

DISCLAIMER

This material (the "material") is not intended for and shall neither be provided to nor used by persons who are citizens of, domiciled or resident in, or entities registered in a country or a jurisdiction in which its distribution, publication, provision or use would violate current laws and regulations.

The financial products mentioned in this material might not be registered with or approved by the relevant regulatory authority. Public distribution may therefore not be permitted and private placements may be restricted to specific type of clients.

Offerings are only allowed in accordance with the applicable local laws and regulations. Detailed selling restrictions of the relevant financial products may apply and need to be considered.

The content of this material has been prepared without taking into account your particular objectives, needs, financial situation, knowledge or experience. This material and/or the financial products mentioned herein might not be suitable for you.

Therefore, you should consider the suitability of the transaction to individual circumstances and objectives and independently assess, with a professional advisor, the specific financial risks as well as any legal, regulatory, credit, tax and accounting consequences. You are fully responsible for your investments.

The information and data furnished in this material are for information purposes only. Banque Pictet & Cie SA or any other entity of the Pictet Group (hereinafter, "the Bank") is not liable for them nor do they constitute advice, an offer, an invitation or recommendation to make, hold or terminate an investment. The information contained herein is not the result of independent financial analysis and does therefore not qualify as financial research. All information and opinions expressed in this material were obtained in good faith from sources believed to be reliable. Prices, values or returns of any investment mentioned in this material are based on the Bank's customary sources of financial data.

Unless specifically stated otherwise, such information is indicative only and may change without notice. The Bank is under no obligation to update the information contained in this material and no representation or warranty, express or implied, is made as to its accuracy or completeness.

The market value of financial products may vary on the basis of economic, financial or political changes, the remaining term, market conditions, the volatility and solvency of the issuer or the benchmark issuer. Some investments may not be readily realizable as the relevant market may be illiquid. Moreover, exchange rates may have a positive or negative effect on the value, the price or the return of the respective product. The political and economic situation in emerging countries is significantly less stable than in industrialized countries and related investments are exposed to higher risks and volatility. Forecasts and past performance are not reliable indicators or guarantees of future results. No express or implied warranty is given as to future performance. Any performance shown does not take into account commissions and costs (which negatively impact the performance).

You shall only take investment decisions when you fully understand the relevant financial product and the involved risks. In particular, the relevant product documentation (such as the issuance program, final terms, prospectus, simplified prospectus and key (investor) information document) as well as the brochure "Special Risks in Securities Trading" of the Swiss Bankers Association shall be read. Structured products are complex financial products and involve a high degree of risk. In Switzerland, they do not qualify as collective investment schemes within the meaning of the Swiss Federal Act on Collective Investment Schemes (CISA), and are therefore not subject to the regulations of the CISA or the supervision of the Swiss Financial Market Supervisory Authority (FINMA). The value of structured products depends not only on the performance of the underlying asset(s), but also on the credit rating of the issuer. Furthermore, the investor is exposed to the risk of default of the issuer/guarantor.

If this material contains a link to a key Information Document of a Package Retail and Insurance-based Investment Product ("KID") or an Undertaking for Collective Investment in Transferable Securities ("KIID"), please note that the respective KID/KIID may change without notice. In order to access the most recent version of the respective KID/KIID, click on the link immediately before confirming to the Bank your decision to invest.

If the Bank is not the manufacturer of the product(s), the KID/KIID is provided by a third party (the "Third Party Document"). The Third Party Document is obtained from sources believed to be reliable. The Bank does not make any guaranty or warranty as to the correctness and accuracy of the data contained in the Third Party Document. The Bank may not be held liable for an investment decision or other transaction made based on reliance on, or use of, the data contained in the Third Party Document.

By subscribing to the product(s) proposed herein, you acknowledge that you have (i) received, in good time, read and understood any relevant documentation linked to the product(s), including, as the case may be, the respective KID/KIID; (ii) taken note of the product(s) restrictions; and (iii) met the applicable subjective and objective eligibility conditions to invest in the product(s).

The Bank may rely on these acknowledgements and sign, on your behalf, any documents or certificates needed to subscribe to the product(s). Further, by subscribing to the product(s), you agree to indemnify and hold harmless the Bank for any and all claims, losses and damages it may incur in connection with the investment in the product(s).

The Bank and its affiliates (or employees thereof) may or may not have long or short positions in, and buy or sell, any of the commodities, futures, securities or other instruments and investment mentioned herein, or derivatives on any of the same.

As arranger, the Bank may acquire this product at a discount. Further information is available from the Bank upon request.

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FINAL SIMPLIFIED PROSPECTUS as of 10/08/2022

USD Capped Bonus Notes linked to VanEck Gold Miners ETF/USA due 20 February 2024

A structured product is not a collective investment scheme as per the Swiss Federal Act on Collective Investment Schemes ("CISA") and is not subject to the authorization or supervision by the Swiss Financial Market Supervisory Authority (FINMA). Therefore, investors in this product are not eligible for the specific investor protection under the Swiss Collective Investment Schemes Act. Investors are exposed to the credit risk of the issuer

This document is provided for discussion and/or information purposes only and it does not constitute either an offer or the solicitation of an offer to enter into a securities or any other transaction. It is not intended to set forth a final expression of the terms and conditions of any transaction and it may be amended, superseded or replaced in its entirety by subsequent documents or other summaries of terms and conditions. This document does not purport to identify or suggest all of the risks (direct or indirect) which may be associated with the proposed investment.

This document must be read in conjunction with the Prospectus (as supplemented or updated) for the Royal Bank of Canada Programme for the Issuance of Securities, current as of the issue date of the Notes (the "Base Prospectus"). The Base Prospectus can be obtained from <http://rbcnnotes.co.uk/Legal> or such other successor display page that has been designated by the Issuer or provided by Royal Bank of Canada upon request. Terms used but not defined herein are as defined in the Base Prospectus and in particular the Terms and Conditions of the Notes (the "Conditions") set out therein.

Information with regard to the Offering of the Notes in Switzerland

This document shall include the information required for a (indicative or definitive) Simplified Prospectus pursuant to Article 5 CISA (Status as of 1 March 2013) and serves as a substitute for a key information document under article 58 of the Swiss Federal Financial Services Act ("FinSA") based on the transitory provision of article 111 para. 1 of the Swiss Financial Services Ordinance ("FinSO"). The definitive Simplified Prospectus will be available no later than on the Issue Date. The Simplified Prospectus shall inform the average investor in short and understandable form about the key data of structured products.

These Notes may be, subject to the applicable selling restrictions outlined below, publicly offered to investors in Switzerland but can only be offered on a Private Placement basis in any Member State of the European Economic Area as per below or elsewhere.

This document in English is not available in one of the official Swiss languages.

I. PRODUCT DESCRIPTION

Overview

USD Capped Bonus Notes linked to VanEck Gold Miners ETF/USA due 20 February 2024 offer investors an opportunity to receive at maturity: (1) a cash payment in an amount equal to (a) 100% of the Calculation Amount *plus* (b) the greater of (i) the Bonus Amount of 21.50%; and (ii) the Performance of the Reference Item *minus* 1, subject to the maximum return at maturity of 130.00%, if no Barrier Event has occurred; or (2) otherwise, a cash payment in an amount that will be worth less, and could be worth substantially less, than the Calculation Amount. The performance of the Reference Item will be calculated as follows: (1) Final Price *divided by* Initial Price (2) *minus* 1. **The securities are not principal protected.**

Market Expectations

The Reference Item will rise

Market volatility is rising

The Reference Item will not close below the Put Barrier Price on the Final Valuation Date

SSPA Classification/Product Type

Bonus Certificates (1320; European Barrier)

PRODUCT DETAILS

Issuer	Royal Bank of Canada (Toronto Branch) Main Toronto Branch located at 200 Bay Street, Toronto, Ontario, Canada
Rating	Aa1 (Stable outlook) by Moody's and AA- (Stable outlook) by Standard and Poor's
Prudential Supervision of the Issuer	RBC is a schedule 1 bank under the Canadian Bank Act, subject to supervision by the Office of the Superintendent for Financial Institutions of Canada and by the Prudential Regulation Authority, United Kingdom

Currency	USD
Issue Size	USD 1,000,000
Specified Denomination	USD 1,000
Calculation Amount	USD 1,000
Minimum Trading Size	USD 1,000
Settlement Method	Cash Settlement*
ISIN	XS2497687744
RBC Code	GDX-BARX-12FEB24
RIC Code	XS2497687744=RBCN
Valoren	117260689
Issue Price	100.00% of the Calculation Amount
Listing	None

* Please refer to the section "Redemption at Maturity"

REFERENCE ITEM						
Reference Item	Identifier	Exchange	Initial Price	Put Strike Price (Initial Price × 100.00%)	Upper Cap (Initial Price × 130.00%)	Put Barrier Price (Initial Price × 70.00%)
VanEck Gold Miners ETF/USA	Bloomberg: GDX UP Equity ISIN: US92189F1066	NYSE Arca	USD 27.323	USD 27.323	USD 35.5199	USD 19.1261

DATES	
Trade Date	10 August 2022
Initial Valuation Date	10 August 2022
Issue Date	17 August 2022
Final Valuation Date	12 February 2024
Maturity Date	20 February 2024

REDEMPTION AT MATURITY	
Barrier Type	European
Barrier Event	A Barrier Event occurs if the Final Price is less than the Put Barrier Price.
Barrier Observation Period	The Final Valuation Date
Settlement Method	The Settlement will be Cash Settlement and the Securities shall be redeemed by payment of the Final Redemption Amount .
Final Redemption Amount	<p>The Final Redemption Amount shall be determined in accordance with the following provisions:</p> <p>(a) If the Final Price is equal to or greater than the Put Barrier Price, the Final Redemption Amount shall be calculated in accordance with the following formula:</p> <p>Calculation Amount × MAX[121.50%; MIN(130.00%; Final Price / Initial Price)]</p>

	(b) Otherwise, if the Final Price is less than the Put Barrier Price, then the Final Redemption Amount shall be calculated in accordance with the following formula: Calculation Amount × (Final Price / Put Strike Price)
Call Strike Price	121.50%
Initial Price	The price as set out in the table above.
Final Price	The Reference Price on the Final Valuation Date.
Reference Price	The official closing price of the Reference Item quoted on the Relevant Exchange as determined by or on behalf of the Calculation Agent (or if, in the opinion of the Calculation Agent, no such official closing price can be determined at such time and the relevant day is not a Disrupted Day, the Calculation Agent's good faith estimate of the price of the Reference Item as of the actual closing time of the Exchange on the relevant date), or as otherwise determined by the Calculation Agent pursuant to the Conditions.

GENERAL INFORMATION	
Calculation Agent	Royal Bank of Canada, London Branch
Paying Agent	The Bank of New York Mellon, London Branch, One Canada Square, London, E14 5AL, England
Secondary Market	Under normal market conditions, the Dealer intends to maintain a secondary market throughout the lifetime of the Securities with an indicative market making spread of 1.00%. However, the Dealer is not obliged to do so and may stop providing liquidity at the secondary market at any time without notice. For further information please refer to the section "Liquidity Risk" below.
Business Days	For payment: London and New York For Determination of the Reference Item(s): Scheduled Trading Days
Business Day Convention	Following
Form of Notes	Global Registered Notes
Registrar	The Bank of New York Mellon SA/NV, Luxembourg Branch
Settlement	Euroclear or Clearstream on a delivery against payment basis
Status	Direct, unsecured and unsubordinated obligations of the Issuer
Documentation	Under the existing Programme for the Issuance of Securities
Dealer (non-syndicated)	RBC Europe Limited
Prohibition of Sales to EEA Retail Investors	Applicable, other than with respect to offers of the Notes for which a PRIIPs KID is being prepared.
Prohibition of Sales to UK Retail Investors	Applicable, other than with respect to offers of the Notes for which a PRIIPs KID is being prepared.
Prohibition of Offer to Private Clients in Switzerland	Applicable, other than with respect to offers of the Notes for which a PRIIPs KID is being prepared.
Distribution Fees	The payment of any fee or commission by the Dealer is subject to the relevant regulatory requirements, including those applicable in the jurisdiction(s) that the Dealer and distributor operate in, as well as the jurisdiction(s) into which the Notes are distributed, if different. The Issue Price may include a fee or commission payable by the Dealer to a distributor or third party, such a fee or commission will be determined by a number of factors including but not limited to the maturity of the Security, hedging costs and legal fees. This fee will not exceed 0.50% of the Issue Price. Any fee or commission received by

	the distributor or third party may be in addition to the fee normally charged by that party in connection with an investment in the Security. Further details in respect of the fee or commission are available upon request.
Pricing	This Security is quoted dirty in the secondary market.
Website	www.rbcnotes.ch
TEFRA Rules	TEFRA rules not applicable
Availability of Documentation	Investors may obtain copies of the Base Prospectus, the Base Prospectus Supplements and the Final Terms free of charge on request from offices of the Distributors or the Issuer's registered office. This Simplified Prospectus compliant document is available, in electronic form, in printed form free of charge and upon request from swiss@rbccm.com or from RBC Europe Limited, London, Representative Office Lausanne, Rue de Bourg 20 / 2nd floor, P.O. Box 7249, 1002 Lausanne, Switzerland
Adjustments	For modifications to the Terms and Conditions during the term of the Notes as a result of corporate actions or similar events and any other notices to Investors, please refer to the Swiss Simplified Prospectus published on the Internet page www.rbcnotes.ch
Governing Law	Province of Ontario and the laws of Canada applicable therein
Jurisdiction	Courts of Ontario and Canada

SWISS TAX INFORMATION

Swiss Tax Treatment of the Securities

The following is a summary only of the Issuer's understanding of current law and practice in Switzerland relating to the taxation of the Notes. This summary does not address the tax consequences of an investment in the Notes in any other jurisdiction than Switzerland. Because this summary does not address all tax considerations under Swiss law and does not consider the specific tax situation of an investor, prospective investors are recommended to consult its personal tax advisors as to the tax consequences of the purchase, ownership, sale or redemption of the Notes including, in particular, the effect of tax laws of any other jurisdiction.

An investor shall be liable for all current and future taxes and duties resulting from an investment in the Notes.

A) Swiss Income Taxation

Please note that the following income tax treatment is only applicable for private investors with tax residence in Switzerland, holding the Notes as their private assets in a tax perspective.

The Interest rate component of the Interest Amount is subject to income tax on the relevant Payment Date. However, the Option premium component is in principle not subject to income tax.

B) Swiss Withholding Tax

The Notes are not subject to Swiss withholding tax.

C) Swiss Stamp Taxes

For Swiss stamp duty purpose, the Notes are treated as analogous to a foreign bond. Therefore, the issuance (primary market) is not subject to Swiss stamp duty. However, secondary market transactions are in principle subject to Swiss stamp duty (TK 22).

The before mentioned tax treatment applies at the Issue Date. The relevant tax laws and/or the regulation and practice of the tax authorities may change at any time. Please note that this tax information does not replace professional tax advice from a personal tax advisor considering the particular circumstances of a holder or a prospective holder.

Therefore, Royal Bank of Canada highly recommends consulting the personal tax advisor as to the tax consequences of the purchase, ownership, sale or exercise of these Notes. Royal Bank of Canada hereby expressly excludes any liabilities in respect of any tax implications arising thereof.

Automatic Exchange of Information in Tax Matters

Switzerland has implemented the Automatic Exchange of Information in Tax Matters ("AEOI") as of 1st January 2017 with the EU and various other countries and is negotiating the introduction of the AEOI with further countries. The website "www.sif.admin.ch" provides an overview of all partner states Switzerland has signed an agreement for the introduction of the AEOI.

II. PROFIT AND LOSS

PROFIT AND LOSS

This security falls in the category "participation".

There is however an upper limit to the profit investors may realize. The maximum amount investors may receive over the term of the security is their invested capital, excluding any transaction or other costs, *plus* participation in the performance of the Reference Item, subject to a maximum return at maturity of 130.00%.

On the downside, investors are exposed to the negative development of the Reference Item. This could lead to a partial or even a total loss of investment.

Please refer to the section "Product Description".

Effect of the performance of the Reference Item on the redemption amount:

Positive performance:

If the Reference Item performs positively, the investor realises a positive return.

Sideways to slightly negative performance:

If the Reference Item performs sideways to slightly negative, the investor realises no return or a slightly negative return.

Pronounced negative performance:

If the Reference Item performs negatively, the investor realises negative return.

III. SIGNIFICANT RISKS FOR INVESTORS

RISKS

Product Risk

These Securities are capital at risk. This means there is a risk that you could lose your entire investment or part of it. These Securities are not guaranteed against losses by the Issuer, Dealer, their affiliates, the UK Financial Services Compensation Scheme or any equivalent European deposit guarantee scheme.

U.S. Withholding Tax on Dividend Equivalent Payments

The United States Internal Revenue Code of 1986, as amended, treats a "dividend equivalent" payment as a dividend from sources within the United States. Unless reduced by an applicable tax treaty with the United States, such payments generally would be subject to U.S. withholding tax of 30% if paid to a non-U.S. holder. A non-U.S. holder is a beneficial owner of a Note that, for U.S. federal income tax purposes, is a non-resident alien individual, a foreign corporation, or a foreign estate or trust. Under recently finalized U.S. Treasury Department regulations, payments on certain equity-linked instruments (including deemed payments) that are contingent upon or determined by Reference to actual or estimated U.S. source dividends, (regardless of whether such contingency or determination is explicitly stated or implicitly taken into account in computing one or more of the terms of such instruments) may be treated as dividend equivalents subject to withholding tax. Withholding tax will apply to dividend

	<p>equivalent payments on Notes issued or materially modified on or after January 1, 2017. If any payments are treated as dividend equivalent subject to withholding, we (or the applicable paying agent) would be required to withhold taxes and would not be required to pay any additional amounts with respect to amounts so withheld. Prospective investors of the Notes should consult their own tax advisers regarding the application of the U.S. rules for withholding on dividend equivalents.</p>
Issuer Risk	<p>Investors bear the issuer risk. The Security's value and the payment of any income or bonus amount (where one is payable) are dependent not only on the development of the Reference Item, but also on the creditworthiness of the Issuer, which may vary over the term of the Security. The ratings of the Issuer noted above reflect the independent opinion of the rating agencies as to the safety of payments of principal and interest. These ratings are not a guarantee of credit quality. The ratings do not take into consideration any risk associated with fluctuations in the market value of this Security, or where factors other than the Issuer's credit quality determine the level of principal and interest payments.</p>
Reference Item	<p>The value of the Security is linked to the Reference Item(s). The past performance of the Reference Item(s) is not an indication or guarantee of future performance. Any decision to invest in the Securities should not be based solely or primarily on the past performance of the Reference Item(s). The performance of the Reference Item(s) may be volatile and subject to unpredictable changes over the term of the Security. The investor should be prepared to assume this risk, including the potential risk of insolvency of the Reference Item(s) issuer(s). Fluctuations in price of the Reference Item(s) may result in the investor losing the entire investment or a substantial part of it.</p> <p>An investment in the Securities does not create a direct investment in the underlying Reference Item(s). Where the Reference Item(s) is an equity/basket of equities, the investor will not be eligible to receive dividend payments or any voting rights associated with a direct investment in the Reference Item(s).</p>
FX Risk	N/A
Cap on Return	<p>The Securities' maximum possible return is limited as described. The return does not increase if the Reference Item(s) outperform(s) the stated maximum return. If the Reference Item(s) substantially outperform(s) the stated maximum return, an investment in the Securities may not be as attractive as a direct investment in the Reference Item(s), where this is possible.</p>
Liquidity Risk	<p>The investor should be prepared to hold this Security until maturity should it not be called or terminated early, if such option exists, by the Issuer. The Dealer will, however, use its reasonable endeavours to provide liquidity to the Security (either directly or through an affiliate) but is not obliged to do so and may stop providing liquidity at any time without notice. This means an investor should not rely on having the ability to redeem the Security at a particular time or for a certain price. If the Security is redeemed early, the investor may get back less than the stated redemption amount. The Issue Price is not a direct reflection of the market value of the Security. The level at which the investor purchases the Security includes hedging costs and profits that the Dealer or its affiliates expect to incur or realize. The Issue Price may also include selling commissions paid by the Dealer to distributors and/or intermediaries. Any selling commissions, costs and profits will reduce the secondary market level, if any secondary market develops, for the Security. As a result, the investor may experience an immediate and substantial decline in the value of the Securities on the Issue Date.</p>
Suitability	<p>This termsheet is provided for information purposes only and should not be used as the sole or primary basis of any investment decision. Transactions of a type described herein, may involve a high degree of risk and may not be suitable for all investors. Transactions in the Securities should not be undertaken unless the prospective investor understands and is capable of bearing all of the risks associated with an investment in the Securities. Before entering into any transaction, potential investors should take steps to ensure they understand the transaction and have assessed the appropriateness of the transaction in light of their own objectives and circumstances, including the possible risks, benefits and also the tax implications of entering into this</p>

proposed transaction. The information in this termsheet does not constitute financial, tax or legal advice and should not be used as a substitute for seeking professional advice. The Dealer is acting as an arm's length counterparty and not as an advisor or fiduciary. It is strongly recommended that potential investors consult their own professional advisers.

Institutions referencing this termsheet or extracting information from this termsheet to provide to their clients should ensure that the information satisfies their local jurisdictional requirements and applicable securities laws for conducting business, including any applicable suitability and appropriateness assessment. Investments of a type described herein should only be sold to investors that have the necessary knowledge and experience to fully understand the related risks and are able to bear such risks.

Conflicts of Interest Disclosure	RBC Europe Limited ("RBCEL") forms part of a major banking group. It is therefore possible that RBCEL or one of its subsidiaries, or affiliates, or one of their officers, employees, representatives or agents (together "the Bank Group") or another client of the Bank Group may have interests, relationships and/or arrangements that give rise to conflicts of interest in relation to business that is transacted with you. Members of the Bank Group may perform a variety of roles in connection with the issuance. The Issuer, Dealer, or their affiliates may act as the Calculation Agent and may enter into positions in connection with the issuance. The Issuer, Dealer, or their affiliates may undertake hedging activity including trading in the Reference Item(s) or instruments related to the Reference Item(s), which may have an adverse impact on the value of the Securities. The Issuer, Dealer, or their affiliates may from time-to-time possess or have access to information concerning the Reference Item(s) and are under no obligation to disclose this information to investors. Any conflicts of interest will be managed in accordance with the Bank Group's established policies and procedures.
Tax Risk	An investment in the Securities may give rise to tax consequences. Any tax liability is dependent on the taxpayer's personal circumstances. The basis and level of any taxes may change during the term of the Security.
On-sale of Securities	It is strongly recommended that investors seek independent tax advice prior to an investment in the Securities. The Issuer, Dealer and members of the Bank Group do not provide tax advice. To the extent that any general information is provided with regard to tax, this is for information purposes only and should neither be construed as tax advice nor should it be relied on, or treated as a substitute for seeking independent tax advice.
Media Distribution	NO

IV. OTHER INFORMATION

SALES RESTRICTION

EEA Retail Investor Offering Information

The Base Prospectus (as contemplated by the Final Terms of the Notes) has been prepared on the basis that any offer of Notes in any Member State of the European Economic Area ("EEA") which has implemented Regulation (EU) 2017/1129 (the "Prospectus Regulation") will be made pursuant to an exemption under the Prospectus Regulation, as implemented in the Relevant State, from the requirement to publish a prospectus for offers of Notes. Accordingly, the Notes should not be sold or offered, directly or indirectly, to persons in any Relevant State except in circumstances which would not require the publication of a prospectus and any person making or intending to make an offer in that Relevant State of Notes should only do so in circumstances in which no obligation arises for the Issuer or RBC Europe Limited to publish a prospectus pursuant to Article 3 of the Prospectus Regulation or supplement a prospectus pursuant to Article 23 of the Prospectus Regulation in relation to such offer. No recipient of this termsheet is authorized by any person to act in a way which would result in an offer to it being considered to be a placement through an intermediary for the purposes of the Prospectus Regulation.

UK Retail Investor Offering Information	<p>The Securities are not intended to be offered, sold or otherwise made available to and should not be offered, sold or otherwise made available to any retail investor in the United Kingdom ("UK") without an up-to-date UK PRIIPS KID being in place with the prior written consent of RBC Europe Limited and provided in accordance with the UK PRIIPS Regulation. For these purposes, a retail investor means a person who is one (or more) of: (i) a retail client as defined in point (8) of Article 2 of Regulation (EU) No 2017/565 as it forms part of domestic law by virtue of the European Union (Withdrawal) Act 2018 ("EUWA"); or (ii) a customer within the meaning of provisions of the FSMA and any rules or regulations made under the Financial Services and Markets Act 2000 (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 domestic law by virtue of the EUWA; or (iii) as defined in Article 2 of Regulation (EU) 2017/1129 as it forms part of domestic law by virtue of the EUWA. If the aforementioned consent of RBC Europe Limited has not been received then no key information document ("KID") required by Regulation (EU) No 1286/2014 as it forms part of domestic law by virtue of the EUWA (the "UK PRIIPs Regulation") for offering or selling the Securities or otherwise making them available to retail investors in the UK has been prepared and therefore offering or selling the Securities or otherwise making them available to any retail investor in the UK may be unlawful under the UK PRIIPs Regulation.</p>
Additional UK Offering Information	<p>Each Dealer has represented, warranted and agreed, and each further Dealer appointed under the Programme will be required to represent and agree, that:</p> <p>(a) 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 Securities in circumstances in which Section 21(1) of the FSMA would not, if the Issuer was not an authorized person, apply to the Issuer; and</p> <p>(b) it has complied and will comply with all applicable provisions of the FSMA with respect to anything done by it in relation to any Securities in, from or otherwise involving the United Kingdom.</p>
US Offering Information	<p>This document is not an offer of securities for sale in the United States. The Notes have not been and will not be registered under the US Securities Act of 1933, as amended (the "Securities Act") or any state securities laws, and may not at any time be offered, pledged, sold or otherwise transferred, directly or indirectly, in the United States or to, or for the account or benefit of, US Persons (as such term is defined in Regulation S under the Securities Act) unless registered under the Securities Act or pursuant to an exemption from such registration.</p>
Swiss Offering Information	<p>Each offeror of Notes represents and agrees that it has not made and will not make an offer of Notes to the public in Switzerland prior to the publication of a prospectus in relation to the Notes which has been approved by a Swiss prospectus office, all in accordance with the Swiss Federal Financial Services Act ("FinSA"), except that it may make an offer of such Notes to the public in Switzerland in any circumstances falling within the exemptions listed in article 36 para. 1 FinSA, provided that no such offer of Notes shall require the Issuer or any offeror to publish a prospectus pursuant to article 35 of the FinSA. The Issuer has neither authorized, nor does authorize any offer of Notes which would require the Issuer or any offeror to publish a prospectus pursuant to article 35 of the FinSA in respect of such offer. For the purposes of this provision, the expression "offer to the public" refers to the respective definitions in article 3 lit. g and h of the FinSA and as further detailed in the FinSO.</p>
Canadian Offering Information	<p>The Notes have not been and will not be qualified for sale under the securities laws of any province or territory of Canada. Each Dealer has represented and agreed that it has not offered, sold or distributed and will not offer, sell or distribute any securities, directly or indirectly, in Canada or to or for the benefit of any resident of Canada, other than in compliance with applicable securities laws. Each Dealer has also represented and agreed that it has not distributed or delivered and will not distribute or deliver this</p>

document, or any other offering material in connection with any offering of the securities, in Canada other than in compliance with applicable securities laws.

Hong Kong Offering Information

WARNING

The contents of this document have not been reviewed by any regulatory authority in Hong Kong or any other jurisdiction. You are advised to exercise caution in relation to the offer. If you are in any doubt about any of the contents of this document, you should obtain independent professional advice.

This is a structured product which involves derivatives. Do not invest in it unless you fully understand and are willing to assume the risks associated with it. If you are in any doubt about the risks involved in the product, you may clarify with the intermediary or seek independent professional advice.

This document has not been approved by the Securities and Futures Commission in Hong Kong and, accordingly, (i) the Notes (except for Notes which are "structured products" as defined in the Securities and Futures Ordinance (Cap. 571) of Hong Kong (the "SFO")) may not be offered or sold in Hong Kong by means of this document or any other document other than to "professional investors" as defined in the SFO and any rules made thereunder, or in other circumstances which do not result in the document being a "prospectus" as defined in the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap. 32) of Hong Kong (the "C(WUMP)O") or which do not constitute an offer to the public within the meaning of C(WUMP)O, and (ii) no person shall issue or possess for the purposes of issue, whether in Hong Kong or elsewhere, any advertisement, invitation or document relating to the Notes which is directed at, or the contents of which are likely to be accessed or read by, the public of Hong Kong (except if permitted to do so under the securities laws of Hong Kong) other than with respect to the Notes which are or are intended to be disposed of only to persons outside Hong Kong or only to "professional investors" as defined in the Securities and Futures Ordinance and any rules made thereunder. For distribution through Hong Kong, Royal Bank of Canada Hong Kong Branch and/or its associates will receive monetary benefits in distributing this product.

Singapore Offering Information

Each Dealer acknowledges that the Base Prospectus has not been, and will not be, registered as a prospectus with the Monetary Authority of Singapore. Accordingly, each Dealer represents, warrants, and agrees that it has not offered or sold any Notes or caused the Notes to be made the subject of an invitation for subscription or purchase and will not offer or sell any Notes or cause the Notes to be made the subject of an invitation for subscription or purchase, and has not circulated or distributed, nor will it circulate or distribute, the Base Prospectus, this termsheet or any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of any Notes, whether directly or indirectly, to any person in Singapore other than (a) to an institutional investor (as defined in Section 4A of the SFA) pursuant to Section 274 of the SFA, (b) to a relevant person (as defined in Section 275(2) of the SFA) pursuant to Section 275(1) of the SFA, or to any person pursuant to Section 275(1A) of the SFA and in accordance with the conditions specified in Section 275 of the SFA or (c) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA.

Where the Notes are subscribed or purchased under Section 275 of the SFA by a relevant person which is:

- (a) a corporation (which is not an accredited investor (as defined in Section 4A of the SFA) the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is accredited investor; or
- (b) a trust (where the trustee is not an accredited investor) whose sole purpose is to hold investments and each beneficiary is an individual who is an accredited investor, securities or securities-based derivative contracts (each term as defined in Section 2(1) of the SFA) of that corporation or the beneficiaries' rights and interest (howsoever described) in that trust shall not be transferred within 6 months after that corporation or that trust has acquired the Notes pursuant to an offer made under Section 275 of the SFA except:

	<p>(i) to an institutional investor or to a relevant person or to any person arising from an offer referred to in Section 275(1A) or Section 276(4)(c)(ii) of the SFA;</p> <p>(ii) where no consideration is or will be given for the transfer;</p> <p>(iii) where the transfer is by operation of law;</p> <p>(iv) as specified in Section 276(7) of the SFA; or</p> <p>(v) as specified in Regulation 37A of the Securities and Futures (Offers of Investments) (Securities and Securities-based Derivatives Contracts) Regulations 2018 of Singapore.</p> <p>Notification under Section 309B(1)(c) of the Securities and Futures Act 2001 of Singapore, as modified or amended from time to time (the "SFA") - The Notes shall be (i) prescribed capital markets products (as defined in the Securities and Futures (Capital Markets Products) Regulations 2018) and (ii) Excluded Investment Products (as defined in MAS Notice SFA 04-N12: Notice on the Sale of Investment Products and MAS Notice FAA-N16: Notice on Recommendations on Investment Products).</p>
UAE (excluding Dubai International Financial Centre) Offering Information	Each Dealer has represented and agreed that Notes have not been, and will not be, offered, sold or publicly promoted or advertised by it in the United Arab Emirates other than in compliance with any laws applicable in the United Arab Emirates governing the issue, offering and sale of Notes.
Bahrain Offering Information	This document has been prepared for information purposes of intended investors only who will be high net worth individuals and institutions. The issuer represents and warrants that it has not made and will not make any invitation in or from the kingdom of Bahrain and will not market or offer the securities to any potential investor in Bahrain. All marketing and offering is made and will be made outside the kingdom of Bahrain. The central bank of Bahrain has not reviewed, nor has it approved, this document or the marketing of the securities and takes no responsibility for the accuracy of the statements and information contained in this document, nor shall it have any liability to any person for any loss or damage resulting from reliance on any statements or information contained herein.
Israel Offering Information	<p>Israeli Securities law. Neither such offering nor the Notes have been qualified or approved by the Israeli Securities Authority or any other government or regulatory body. RBC is not licensed under The Regularization of Engagement in Investment Counselling Investment Marketing and Portfolio Management Law, 1995 (the "Counselling Law") and therefore, RBC does not carry insurance as would be required if RBC were licensed.</p> <p>The purchaser represents, warrants and covenants that: (i) the purchaser is acquiring the Notes as a principal only and not as an agent of Royal Bank of Canada, (ii) all risks associated with the holding or owning of the Notes are irrevocably transferred to the purchaser upon the purchase of such Notes by the purchaser, (iii) the purchaser will not share with RBC any gains or losses it realizes in connection with the Notes; (iv) neither RBC nor RBC EL has provided the purchaser with any investment advice in connection with the purchaser's purchase of the Notes and the purchaser has consulted with its own investment advisors in connection therewith; (v) to the extent relevant to the purchaser. The purchaser will comply with the applicable provisions of Israel's Currency Control Law, 1978 and the amended Currency Control Permit, 1998 promulgated thereunder in connection with the Notes; and (vi) the purchaser shall at all times comply with Israeli and other applicable laws and regulations, including securities laws and regulation, in connection with Notes and the purchaser shall take no action which would or not fail to take any action if the failure would cause RBC or RBC EL to be in violation of any such laws or regulations.</p>
Monaco Offering Information	The securities may not be offered or sold, directly or indirectly, to the public in Monaco other than by a Monaco Bank or a duly authorized Monegasque intermediary. Consequently, this document may only be communicated to Monaco banks duly licensed by the "Autorité de Contrôle Prudentiel" and fully licensed Monaco portfolio management companies by virtue of Law n° 1.144 of July 26, 1991 and Law 1.338, of September 7, 2007 duly licensed by the "Commission de Contrôle des Activités

	Financières”(“CCAF”). Such regulated intermediaries may in turn communicate this document to potential investors.
Dubai International Financial Centre Offering Information	<p>Each Dealer has represented and agreed that it has not offered and will not offer Notes to any person in the Dubai International Financial Centre unless such offer is:</p> <ul style="list-style-type: none"> (a) An “Exempt Offer” in accordance with the Market Rules (MKT) Module of the Dubai Financial Services Authority (the “DFSA”) rulebook; and (b) Made only to persons who meet the Professional Client criteria set out in Rule 2.3.3 of the Conduct of Business Module of the DFSA rulebook.
Japan Offering Information	<p>No registration pursuant to Article 4, Paragraph 1 of the Financial Instruments and Exchange Act of Japan (Act No. 25 of 1948, as amended) (the “FIEA”) has been made or will be made with respect to the Notes. The Dealer has represented and agreed, and each further Dealer appointed under the Base Prospectus will be required to represent and agree, that it will not offer or sell any Notes, directly or indirectly, in Japan or to, or for the benefit of, any Resident of Japan (as defined under Article 6, Paragraph 1, Item 5 of the Foreign Exchange and Foreign Trade Act (Act No. 228 of 1949, as amended)), or to others for re-offering or resale, directly or indirectly, in Japan or to, or for the benefit of a resident of Japan except pursuant to an exemption from the registration requirements of, and otherwise in compliance with, the FIEA and any other applicable laws, regulations and ministerial guidelines of Japan.</p>

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This brief statement does not purport to identify or suggest all the risks (directly or indirectly) and other significant aspects in connection with transactions of the type described herein, and counterparties should ensure that they fully understand the terms of the transaction, including the relevant risk factors and any legal, tax, regulatory or accounting considerations applicable to them, prior to transacting. No representation is made concerning the legal, tax, regulatory or accounting implications in any applicable jurisdiction and we are not advising you in respect of such matters. Accordingly you must independently determine, with your own advisors, the appropriateness for you of the transaction before transacting. To the fullest extent permissible by law, RBCCM accepts no liability for any loss (including consequential losses) arising from the use of this document or reliance on the information contained herein. RBCCM is acting solely in the capacity of an arm's length contractual counterparty and not in the capacity of your financial adviser or fiduciary.

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