

ROYAL BANK OF CANADA  
Form FWP  
November 27, 2017

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November 2017

MSELN-306-C

Registration Statement No. 333-208507

Dated November 27, 2017

Filed Pursuant to Rule 433

STRUCTURED INVESTMENTS

Opportunities in International Equities

Dual Directional Trigger Jump Securities Based on the Performance of the EURO STOXX 50<sup>®</sup> Index, due June 3, 2020

Principal at Risk Securities

The Dual Directional Trigger Jump Securities (the “securities”) are senior unsecured obligations of Royal Bank of Canada, do not pay interest, do not guarantee any return of principal at maturity and have the terms described in the accompanying prospectus supplement and prospectus, as supplemented or modified by this document. At maturity, if the level of the underlying index has not decreased, investors will receive the stated principal amount of their investment plus positive return equal to the digital return. If the level of the underlying index has decreased, but not by more than 20%, investors will receive the stated principal amount plus an unleveraged positive return equal to the absolute value of the percentage decrease, which will effectively be limited to a positive return of 20%. However, if the level of the underlying index has decreased by more than 20%, investors will lose 1% of the stated principal amount for every 1% decrease in the final index level from the initial index level. These securities are for investors who seek an equity index-based return and who are willing to risk their principal and forgo current income in exchange for the potential benefit of the digital return and the unleveraged absolute return feature, which applies to a limited range of negative performance of the underlying index. Investors may lose their entire initial investment in the securities. The securities are senior notes issued as part of Royal Bank of Canada’s Global Medium-Term Notes, Series G program. All payments on the securities are subject to the credit risk of Royal Bank of Canada.

#### SUMMARY TERMS

Issuer: Royal Bank of Canada

Underlying index: EURO STOXX 50<sup>®</sup> Index (the “SX5E”)

Aggregate  
principal amount: \$

Stated principal  
amount: \$10 per security

Issue price: \$10 per security (see “Commissions and issue price” below)

Pricing date: November 30, 2017

Issue date: December 5, 2017 (three business days after the pricing date)

Maturity date: June 3, 2020

Payment at  
maturity:

- If the final index level is greater than or equal to the initial index level,

\$10 + the product of (a) \$10 and (b) the digital return

- If the final index level is less than the initial index level but is greater than or equal to the trigger level,

\$10 + (\$10 × absolute index return)

In this scenario, you will receive a 1% positive return on the securities for each 1% decrease in the level of the underlying index. In no event will this amount exceed the stated principal amount plus \$2.00.

- If the final index level is less than the trigger level,

\$10 + (\$10 × underlying index return)

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Under these circumstances, the payment at maturity will be less than \$8.00. You will lose at least 20% and possibly all of the stated principal amount if the final index level is less than the trigger level.

|                              |  |                       |                    |
|------------------------------|--|-----------------------|--------------------|
| Digital return:              | 23.90%   |                       |                    |
| Underlying index return:     | (final index level – initial index level) / initial index level  |                       |                    |
| Absolute index return:       | The absolute value of the underlying index return. For example, a -5% underlying index return will result in a +5% absolute index return |                       |                    |
| Trigger level:               | 80% of the initial index level   |                       |                    |
| Initial index level:         | The closing level of the underlying index on the pricing date  |                       |                    |
| Final index level:           | The closing level of the underlying index on the valuation date  |                       |                    |
| Valuation date:              | May 29, 2020, subject to adjustment for non-trading days and certain market disruption events  |                       |                    |
| CUSIP / ISIN:                | 78013F735 / US78013F7353   |                       |                    |
| Listing:                     | The securities will not be listed on any securities exchange.  |                       |                    |
| Agent:                       | RBC Capital Markets, LLC (“RBCCM”). See “Supplemental Information Regarding Plan of Distribution; Conflicts of Interest.”                |                       |                    |
| Commissions and issue price: | Price to public  | Agent’s commissions   | Proceeds to issuer |
| Per security                 | \$10.00  | \$0.25 <sup>(1)</sup> |                    |
|                              |  | \$0.05 <sup>(2)</sup> | \$9.70             |
| Total                        | \$   | \$                    | \$                 |

RBCCM, acting as agent for Royal Bank of Canada, will receive a fee of \$0.30 per \$10 stated principal amount and (1) will pay to Morgan Stanley Wealth Management (“MSWM”) a fixed sales commission of \$0.25 for each security that MSWM sells. See “Supplemental Information Regarding Plan of Distribution; Conflicts of Interest.”

(2) Of the amount per \$10 stated principal amount received by RBCCM, acting as agent for Royal Bank of Canada, RBCCM will pay MSWM a structuring fee of \$0.05 for each security.

The pricing date, the issue date and other dates set forth above are subject to change, and will be set forth in the pricing supplement relating to the securities.

The initial estimated value of the securities as of the date of this document is \$9.6132 per \$10.00 security, which is less than the price to public. The final pricing supplement relating to the securities will set forth our estimate of the initial value of the securities as of the pricing date, which will not be more than \$0.30 less than this amount. The market value of the securities at any time will reflect many factors, cannot be predicted with accuracy, and may be less than this amount.

An investment in the securities involves certain risks. See “Risk Factors” beginning on page 6 of this document, page S-1 of the accompanying prospectus supplement and page 1 of the prospectus.

You should read this document together with the related prospectus supplement and prospectus, each of which can be accessed via the hyperlinks below, before you decide to invest.

Please also see “Additional Terms of the Securities” in this document.

[Prospectus Supplement dated January 8, 2016](#)

[Prospectus dated January 8, 2016](#)

None of the Securities and Exchange Commission, any state securities commission or any other regulatory body has approved or disapproved of the securities or passed upon the adequacy or accuracy of this document. Any representation to the contrary is a criminal offense. The securities will not constitute deposits insured by the Canada Deposit Insurance Corporation, the U.S. Federal Deposit Insurance Corporation or any other Canadian or U.S. government agency or instrumentality.

Dual Directional Trigger Jump Securities Based on the Performance of the EURO STOXX 50<sup>®</sup> Index, due June 3, 2020

Principal at Risk Securities

Investment Summary

Dual Directional Trigger Jump Securities

Principal at Risk Securities

The Dual Directional Trigger Jump Securities Based on the Performance of the EURO STOXX 50<sup>®</sup> Index, due June 3, 2020 (the “securities”) can be used:

§ As an alternative to direct exposure to the underlying index that provides a fixed positive return of 23.90% if the underlying index has not decreased from the pricing date to the valuation date.

§ To obtain an unleveraged positive return for a limited range of negative performance of the underlying index.

§ To enhance returns and potentially outperform the underlying index in a moderately bullish or moderately bearish scenario.

The securities are exposed on a 1:1 basis to the full negative performance of the underlying index if the final index level is less than the trigger level.

Maturity: Approximately two and a half years

Digital return: 23.90%

Trigger level: 80% of the initial index level

Minimum payment at maturity: None. Investors may lose their entire initial investment in the securities.

Coupon: None

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Dual Directional Trigger Jump Securities Based on the Performance of the EURO STOXX 50<sup>®</sup> Index, due June 3, 2020

Principal at Risk Securities

Key Investment Rationale

The securities offer the potential for a positive fixed return if the level of the underlying index does not decrease and an unleveraged positive return equal to the absolute value of a limited range of negative performance of the underlying index. At maturity, if the level of the underlying index has not decreased, investors will receive the stated principal amount plus a positive return equal to the digital return. If the level of the underlying index has decreased, but by no more than 20%, investors will receive the stated principal amount plus an unleveraged positive return equal to the absolute value of the percentage decrease, which will effectively be limited to a positive return of 20%. However, if the level of the underlying index has decreased by more than 20%, investors will lose 1% of the principal amount for every 1% decrease in the final index level from the initial index level. Investors may lose their entire initial investment in the securities.

Digital  
Return  
Scenario

The final index level is equal to the initial index level or is greater than the initial index level. In this case, the securities offer the digital return of 23.90%.

Absolute  
Return  
Scenario

The final index level is less than the initial index level but is greater than or equal to the trigger level, which is 80% of the initial index level. In this case, you receive a 1% positive return on the securities for each 1% decrease in the level of the underlying index. For example, if the final index level is 10% less than the initial index level, the securities will provide a total positive return of 10% at maturity. The maximum return you may receive in this scenario is a positive 20% return at maturity.

Downside  
Scenario

The final index level is less than the trigger level, and, at maturity, we will pay less than the stated principal amount by an amount that is proportionate to the percentage decrease in the level of the underlying index from the initial index level. Under these circumstances, the payment at maturity will be less than \$8.00 per security. For example, if the final index level is 70% less than the initial index level, you will lose 70% of the principal amount and receive only \$3.00 per security at maturity. There is no minimum payment at maturity on the securities, and you could lose your entire investment.

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Principal at Risk Securities

Additional Information

You should read this document together with the prospectus dated January 8, 2016, as supplemented by the prospectus supplement dated January 8, 2016, relating to our Senior Global Medium-Term Notes, Series G, of which the securities are a part. This document, together with these documents, contains the terms of the securities and supersedes all other prior or contemporaneous oral statements as well as any other written materials, including preliminary or indicative pricing terms, correspondence, trade ideas, structures for implementation, sample structures, brochures or other educational materials of ours.

You should rely only on the information provided or incorporated by reference in this document, the prospectus and the prospectus supplement. We have not authorized anyone else to provide you with different information, and we take no responsibility for any other information that others may give you. We and Morgan Stanley Wealth Management are offering to sell the securities and seeking offers to buy the securities only in jurisdictions where it is lawful to do so. The information contained in this document and the accompanying prospectus supplement and prospectus is current only as of their respective dates.

If the information in this document differs from the information contained in the prospectus supplement or the prospectus, you should rely on the information in this document.

You should carefully consider, among other things, the matters set forth in “Risk Factors” in this document and the accompanying prospectus supplement, as the securities involve risks not associated with conventional debt securities. We urge you to consult your investment, legal, tax, accounting and other advisers before you invest in the securities. You may access these documents on the SEC website at [www.sec.gov](http://www.sec.gov) as follows (or if such address has changed, by reviewing our filings for the relevant date on the SEC website):

Prospectus dated January 8, 2016:

<http://www.sec.gov/Archives/edgar/data/1000275/000121465916008810/j18160424b3.htm>

Prospectus Supplement dated January 8, 2016:

<http://www.sec.gov/Archives/edgar/data/1000275/000121465916008811/p14150424b3.htm>

Our Central Index Key, or CIK, on the SEC website is 1000275.

Please see the section “Documents Incorporated by Reference” on page i of the above prospectus for a description of our filings with the SEC that are incorporated by reference therein.

The issuer has filed a registration statement (including a prospectus) with the SEC for the offering to which this communication relates. Before you invest, you should read the prospectus in that registration statement and other documents the issuer has filed with the SEC for more complete information about the issuer and this offering. You may get these documents for free by visiting EDGAR on the SEC website at [www.sec.gov](http://www.sec.gov). Alternatively, the issuer, any underwriter or any dealer participating in this offering will arrange to send you the prospectus if you request it by calling toll-free 1-800-584-6837.

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Dual Directional Trigger Jump Securities Based on the Performance of the EURO STOXX 50<sup>®</sup> Index, due June 3, 2020

Principal at Risk Securities

How the Dual Directional Trigger Jump Securities Work

Payoff Diagram

The payoff diagram below illustrates the payment at maturity on the securities for a range of hypothetical percentage changes in the closing level of the underlying index. The graph is based on the following terms:

|                              |                                |
|------------------------------|--------------------------------|
| Stated principal amount:     | \$10 per security              |
| Digital return:              | 23.90%                         |
| Trigger level:               | 80% of the initial index level |
| Minimum payment at maturity: | None                           |

#### Dual Directional Trigger Jump Securities Payoff Diagram

How it works

§ Upside Scenario. If the final index level is greater than or equal to the initial index level, then investors would receive the \$10 stated principal amount plus a return equal to the digital return.

§ Absolute Return Scenario. If the final index level is less than the initial index level but is greater than or equal to the trigger level of 80% of the initial index level, the investor would receive a 1% positive return on the securities for each 1% decrease in the level of the underlying index.

§ For example, if the level of the underlying index decreases by 10%, the investor would receive a 10% return, or \$11.00 per security. The maximum return you may receive in this scenario is a positive 20% return at maturity.

§ Downside Scenario. If the final index level is less than the trigger level, the investor would receive an amount less than the \$10 stated principal amount, based on a 1% loss of principal for each 1% decrease in the level of the underlying index. Under these circumstances, the payment at maturity will be less than \$8.00 per security. There is no minimum payment at maturity on the securities.

§ For example, if the level of the underlying index decreases by 70%, the investor would lose 70% of the principal amount and receive only \$3.00 per security at maturity, or 30% of the stated principal amount.

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## Principal at Risk Securities

### Risk Factors

An investment in the securities is subject to the risks described below, as well as the risks described under “Risk Factors” in the accompanying prospectus supplement and prospectus. Investors in the securities are also exposed to further risks related to the issuer of the securities, Royal Bank of Canada, which are described in Royal Bank of Canada’s annual report on Form 40-F for its most recently completed fiscal year, filed with the SEC and incorporated by reference herein. See the categories of risks, identified and disclosed in the management’s discussion and analysis of financial condition and results of operations included in the annual report on Form 40-F. This section (and the management’s discussion and analysis section of the annual report on Form 40-F) describes the most significant risks relating to the securities. You should carefully consider whether the securities are suited to your particular circumstances.

The securities do not pay interest or guarantee return of any principal. The terms of the securities differ from those of ordinary debt securities in that the securities do not pay interest or guarantee the payment of any principal amount at maturity. If the final index level is less than the trigger level (which is 80% of the initial index level), the absolute return feature will not apply and the payout at maturity will be an amount in cash that is at least 20% less than the § \$10 stated principal amount of each security. In this case, you will lose a significant portion of your principal amount equal to the full percentage decrease in the level of the underlying index from the initial index level to the final index level. There is no minimum payment at maturity on the securities, and, accordingly, you could lose your entire initial investment in the securities.

The appreciation potential of the securities is limited. The appreciation potential of the securities is limited by the § digital payment at maturity of \$12.39 per security, or 123.90% of the stated principal amount. Accordingly, if the underlying index increases by more than 123.90%, an investment in the securities will return less than percentage increase of the underlying index.

The market price of the securities will be influenced by many unpredictable factors. Several factors will influence § the value of the securities in the secondary market and the price at which RBCCM may be willing to purchase or sell the securities in the secondary market, including:

§ the trading price and volatility (frequency and magnitude of changes in value) of the securities represented by the underlying index;

§ dividend yields on the securities represented by the underlying index;

§ market interest rates;

§ our creditworthiness, as represented by our credit ratings or as otherwise perceived in the market;

§ time remaining to maturity;

§ geopolitical conditions and economic, financial, political, regulatory or judicial events that affect the underlying § index; and

§ the exchange rate between the U.S. dollar and the euro.

Generally, the longer the time remaining to maturity, the more the market price of the securities will be affected by the other factors described above. The level of the underlying index may be volatile, and you should not take the historical levels of the underlying index as an indication of future performance. See “Information About the Underlying Index” below. You may receive less, and possibly significantly less, than the stated principal amount per security if you sell your securities prior to maturity.

The securities are subject to the credit risk of Royal Bank of Canada, and any actual or anticipated changes to its credit ratings or credit spreads may adversely affect the market value of the securities. You are dependent on Royal § Bank of Canada’s ability to pay all amounts due on the securities at maturity and therefore you are subject to the credit risk of Royal Bank of Canada. If Royal Bank of Canada defaults on its obligations under the securities, your investment would be at risk and you could lose some or all of your investment. As a result, the

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#### Principal at Risk Securities

market value of the securities prior to maturity will be affected by changes in the market's view of Royal Bank of Canada's creditworthiness. Any actual or anticipated decline in Royal Bank of Canada's credit ratings or increase in the credit spreads charged by the market for taking Royal Bank of Canada credit risk is likely to adversely affect the market value of the securities.

The amount payable on the securities is not linked to the level of the underlying index at any time other than the valuation date. The final index level will be based on the closing level of the underlying index on the valuation date, subject to adjustment for non-trading days and certain market disruption events. Even if the level of the underlying index increases prior to the valuation date but then decreases by the valuation date to a level that is less than the § trigger level, the payment at maturity will be significantly less than it would have been had the payment at maturity been linked to the level of the underlying index prior to that decrease. Although the actual level of the underlying index on the maturity date or at other times during the term of the securities may be higher than the final index level, the payment at maturity will be based solely on the closing level of the underlying index on the valuation date. Investing in the securities is not equivalent to investing in the underlying index. Investing in the securities is not § equivalent to investing in the underlying index or its component stocks. Investors in the securities will not have voting rights or rights to receive dividends or other distributions or any other rights with respect to stocks that constitute the underlying index.

The initial estimated value of the securities will be less than the price to the public. The initial estimated value that is set forth on the cover page of this document, and that will be set forth in the final pricing supplement for the securities, does not represent a minimum price at which we, RBCCM or any of our affiliates would be willing to purchase the securities in any secondary market (if any exists) at any time. If you attempt to sell the securities prior to maturity, their market value may be lower than the price you paid for them and the initial estimated value. This is due to, among other things, changes in the level of the underlying index, the borrowing rate we pay to issue securities of this kind, and the inclusion in the price to the public of the agent's commissions and the estimated costs relating to our hedging of the securities. These factors, together with various credit, market and economic factors § over the term of the securities, are expected to reduce the price at which you may be able to sell the securities in any secondary market and will affect the value of the securities in complex and unpredictable ways. Assuming no change in market conditions or any other relevant factors, the price, if any, at which you may be able to sell your securities prior to maturity may be less than your original purchase price, as any such sale price would not be expected to include the agent's commissions and the hedging costs relating to the securities. In addition to bid-ask spreads, the value of the securities determined for any secondary market price is expected to be based on the secondary rate rather than the internal funding rate used to price the securities and determine the initial estimated value. As a result, the secondary price will be less than if the internal funding rate was used. The securities are not designed to be short-term trading instruments. Accordingly, you should be able and willing to hold your securities to maturity.

Our initial estimated value of the securities is an estimate only, calculated as of the time the terms of the securities are set. The initial estimated value of the securities is based on the value of our obligation to make the payments on the securities, together with the mid-market value of the derivative embedded in the terms of the securities. See § "Structuring the Securities" below. Our estimate is based on a variety of assumptions, including our credit spreads, expectations as to dividends, interest rates and volatility, and the expected term of the securities. These assumptions are based on certain forecasts about future events, which may prove to be incorrect. Other entities may value the securities or similar securities at a price that is significantly different than we do.

The value of the securities at any time after the pricing date will vary based on many factors, including changes in market conditions, and cannot be predicted with accuracy. As a result, the actual value you would receive if you sold the securities in any secondary market, if any, should be expected to differ materially from the initial estimated value of your securities.





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Adjustments to the underlying index could adversely affect the value of the securities. The sponsor of the underlying index (the “index sponsor”) may add, delete or substitute the stocks constituting the underlying index, or make other § methodological changes. Further, the index sponsor may discontinue or suspend calculation or publication of the underlying index at any time. Any of these actions could affect the value of and the return on the securities.

We have no affiliation with the index sponsor and will not be responsible for any actions taken by the index sponsor. The index sponsor is not an affiliate of ours and will not be involved in the offering of the securities in any way. Consequently, we have no control over the actions of the index sponsor, including any actions of the type that would require the calculation agent to adjust the payment to you at maturity. The index sponsor has no obligation of any sort with respect to the securities. Thus, the index sponsor has no obligation to take your interests into consideration for any reason, including in taking any actions that might affect the value of the securities. None of our proceeds from the issuance of the securities will be delivered to the index sponsor.

The securities will not be listed on any securities exchange and secondary trading may be limited. The securities will not be listed on any securities exchange. Therefore, there may be little or no secondary market for the securities. RBCCM may, but is not obligated to, make a market in the securities, and, if it chooses to do so at any time, it may cease doing so. When it does make a market, it will generally do so for transactions of routine secondary market size at prices based on its estimated of the current value of the securities, taking into account its bid/offer spread, our credit spreads, market volatility, the notional size of the proposed sale, the cost of unwinding any related § hedging positions, the time remaining to maturity and the likelihood that it will be able to resell the securities. Even if there is a secondary market, it may not provide enough liquidity to allow you to trade or sell the securities easily. Because we do not expect that other broker-dealers will participate significantly in the secondary market for the securities, the price at which you may be able to trade your securities is likely to depend on the price, if any, at which RBCCM is willing to transact. If, at any time, RBCCM were not to make a market in the securities, it is likely that there would be no secondary market for the securities. Accordingly, you should be willing to hold your securities to maturity.

Historical levels of the underlying index should not be taken as an indication of its future levels during the term of the securities. The trading prices of the equity securities comprising the underlying index will determine the level of § the underlying index at any given time. As a result, it is impossible to predict whether the level of the underlying index will rise or fall. Trading prices of the equity securities comprising the underlying index will be influenced by complex and interrelated political, economic, financial and other factors.

Hedging and trading activity by us and our subsidiaries could potentially adversely affect the value of the securities. One or more of our subsidiaries and or third party dealers expect to carry out hedging activities related to the securities (and possibly to other instruments linked to the underlying index or the securities it represents), including trading in those securities as well as in other related instruments. Some of our subsidiaries also may conduct trading activities relating to the underlying index on a regular basis as part of their general broker-dealer and other § businesses. Any of these hedging or trading activities on or prior to the pricing date could potentially affect the initial index level and, therefore, could increase the level above which the underlying index must close on the valuation date so that investors do not suffer a significant loss on their initial investment in the securities.

Additionally, such hedging or trading activities during the term of the securities, including on the valuation date, could adversely affect the closing level of the underlying index on the valuation date and, accordingly, the amount of cash an investor will receive at maturity, if any.

Our business activities may create conflicts of interest. We and our affiliates may engage in trading activities related to the underlying index or the securities represented by the underlying index that are not for the account of holders of the securities or on their behalf. These trading activities may present a conflict between the holders’ interest in the § securities and the interests we and our affiliates will have in proprietary accounts, in facilitating transactions, including options and other derivatives transactions, for our customers and in accounts under our management. These trading activities could be adverse to the interests of the holders of the securities.



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We and our affiliates may presently or from time to time engage in business with one or more of the issuers of the securities represented by the underlying index. This business may include extending loans to, or making equity investments in, such companies or providing advisory services to such companies, including merger and acquisition advisory services. In the course of business, we and our affiliates may acquire non-public information relating to these companies, which we have no obligation to disclose to you, and, in addition, one or more of our affiliates may publish research reports about these companies. Neither we nor the agent have made any independent investigation regarding any matters whatsoever relating to the issuers of the securities represented by the underlying index. Moreover, we and our affiliates may have published, and in the future expect to publish, research reports with respect to the underlying index or the securities which it represents. This research is modified from time to time without notice and may express opinions or provide recommendations that are inconsistent with purchasing or holding the securities. Any of these activities by us or one or more of our affiliates may affect the level of the underlying index and, therefore, the market value of the securities.

The calculation agent, which is a subsidiary of the issuer, will make determinations with respect to the securities, which may create a conflict of interest. Our wholly owned subsidiary, RBCCM, will serve as the calculation agent. As calculation agent, RBCCM will determine the initial index level, the final index level and the underlying index return, and calculate the amount of cash, if any, you will receive at maturity. Moreover, certain determinations made by RBCCM, in its capacity as calculation agent, may require it to exercise discretion and make subjective § judgments, such as with respect to the occurrence or non-occurrence of market disruption events and the selection of a successor index or the calculation of the final index level in the event of a market disruption event or discontinuance of the underlying index. These potentially subjective determinations may adversely affect the payout to you at maturity, if any. For further information regarding these types of determinations, see “Additional Terms of the Securities” below.

An investment in securities linked to the SX5E Is subject to risks associated with foreign securities markets. The SX5E tracks the value of certain foreign equity securities. You should be aware that investments in securities linked to the value of foreign equity securities involve particular risks. The foreign securities markets comprising the SX5E may have less liquidity and may be more volatile than U.S. or other securities markets and market developments § may affect foreign markets differently from U.S. or other securities markets. Direct or indirect government intervention to stabilize these foreign securities markets, as well as cross-shareholdings in foreign companies, may affect trading prices and volumes in these markets. Also, there is generally less publicly available information about foreign companies than about those U.S. companies that are subject to the reporting requirements of the U.S. Securities and Exchange Commission, and foreign companies are subject to accounting, auditing and financial reporting standards and requirements that differ from those applicable to U.S. reporting companies.

Prices of securities in foreign countries are subject to political, economic, financial and social factors that apply in those geographical regions. These factors, which could negatively affect those securities markets, include the possibility of recent or future changes in a foreign government’s economic and fiscal policies, the possible imposition of, or changes in, currency exchange laws or other laws or restrictions applicable to foreign companies or investments in foreign equity securities and the possibility of fluctuations in the rate of exchange between currencies, the possibility of outbreaks of hostility and political instability and the possibility of natural disaster or adverse public health developments in the region. Moreover, foreign economies may differ favorably or unfavorably

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from the U.S. economy in important respects such as growth of gross national product, rate of inflation, capital reinvestment, resources and self-sufficiency.

Securities linked to the SX5E are subject to foreign currency exchange rate risk — The level of the SX5E will fluctuate based upon changes in the value of the currency in which the stock represented by this underlying index is traded.

§ Accordingly, investors in securities linked to this underlying index will be exposed to currency exchange rate risk with respect to each of the currencies in which those stocks are traded. An investor's net exposure will depend in part on the extent to which these currencies strengthen or weaken against the U.S. dollar. We will make no adjustment to the terms of the securities based on changes in these exchange rates.

§ Significant aspects of the tax treatment of the securities are uncertain. The tax treatment of an investment in the securities is uncertain. We do not plan to request a ruling from the Internal Revenue Service (the "IRS") or from the Canada Revenue Agency regarding the tax treatment of an investment in the securities, and the IRS, the Canada Revenue Agency or a court may not agree with the tax treatment described in this document.

The IRS has issued a notice indicating that it and the U.S. Treasury Department are actively considering whether, among other issues, a holder should be required to accrue interest over the term of an instrument such as the securities even though that holder will not receive any payments with respect to the securities until maturity and whether all or part of the gain a holder may recognize upon sale, exchange or maturity of an instrument such as the securities should be treated as ordinary income. The outcome of this process is uncertain and could apply on a retroactive basis. Please read carefully the sections entitled "Canadian Federal Income Tax Consequences" and "Supplemental Discussion of U.S. Federal Income Tax Consequences" in this document, the section entitled "Tax Consequences" in the accompanying prospectus and the section entitled "Certain Income Tax Consequences" in the accompanying prospectus supplement. You should consult your tax advisor about your own tax situation.

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Additional Terms of the Securities

Please read this information in conjunction with the summary terms on the front cover of this document.

#### Additional Provisions

If the valuation date occurs on a day that is not a trading day or on a day on which the calculation agent has determined that a market disruption event (as defined below) has occurred or is continuing, then the valuation date will be postponed until the next succeeding trading day on which the calculation agent determines that a market disruption event does not occur or is not continuing; provided that in no event will the valuation date be postponed by more than five trading days. If the valuation date is postponed by five trading days, and a market disruption event occurs or is continuing on that fifth trading day, then the calculation agent may determine, in its good faith and reasonable judgment, what the closing level of the underlying index would have been in the absence of the market disruption event. If the valuation date is postponed, then the maturity date will be postponed by an equal number of business days. No interest shall accrue or be payable as a result of such postponement.

With respect to the underlying index and any relevant successor index, a “market disruption event” means:

- a suspension, absence or material limitation of trading of equity securities then constituting 20% or more of the level of the underlying index (or the relevant successor index) on the relevant exchanges (as defined below) for such securities for more than two hours of trading during, or during the one hour period preceding the close of, the principal trading session on such relevant exchange; or
- a breakdown or failure in the price and trade reporting systems of any relevant exchange as a result of which the reported trading prices for equity securities then constituting 20% or more of the level of the underlying index (or the relevant successor index) during the one hour preceding the close of the principal trading session on such relevant exchange are materially inaccurate; or
- a suspension, absence or material limitation of trading on the primary exchange or market for trading in futures or options contracts related to the underlying index (or the relevant successor index) for more than two hours of trading during, or during the one hour period preceding the close of, the principal trading session on such exchange or market; or
- a decision to permanently discontinue trading in the relevant futures or options contracts; in each case as determined by the calculation agent in its sole discretion; and
- a determination by the calculation agent in its sole discretion that the event described above materially interfered with our ability or the ability of any of our affiliates to adjust or unwind all or a material portion of any hedge with respect to the securities.

Market  
disruption  
events:

For purposes of determining whether a market disruption event with respect to the underlying index (or the relevant successor index) exists at any time, if trading in a security included in the underlying index (or the relevant successor index) is materially suspended or materially limited at that time, then the relevant percentage contribution of that security to the level of the underlying index (or the relevant successor index) will be based on a comparison of (a) the portion of the level of the underlying index (or the relevant successor index) attributable to that security relative to (b) the overall level of the underlying index (or the relevant successor index), in each case immediately before that suspension or limitation.

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For purposes of determining whether a market disruption event with respect to the underlying index (or the relevant successor index) has occurred:

- a limitation on the hours or number of days of trading will not constitute a market disruption event if it results from an announced change in the regular business hours of the relevant exchange, or the primary exchange or market for trading in futures or options contracts related to the underlying index (or the relevant successor index);
- limitations pursuant to the rules of any relevant exchange similar to NYSE Rule 80B (or any applicable rule or regulation enacted or promulgated by any other self-regulatory organization or any government agency of scope similar to NYSE Rule 80B as determined by the calculation agent) on trading during significant market fluctuations will constitute a suspension, absence or material limitation of trading;
- a suspension of trading in futures or options contracts on the underlying index (or the relevant successor index) by the primary exchange or market trading in such contracts by reason of:
  - a price change exceeding limits set by such exchange or market,
  - an imbalance of orders relating to such contracts, or
  - a disparity in bid and ask quotes relating to such contracts,will, in each such case, constitute a suspension, absence or material limitation of trading in futures or options contracts related to the underlying index (or the relevant successor index); and
- a “suspension, absence or material limitation of trading” on any relevant exchange or on the primary exchange or market on which futures or options contracts related to the underlying index (or the relevant successor index) are traded will not include any time when such exchange or market is itself closed for trading under ordinary circumstances.

“Relevant exchange” means the primary exchange or market of trading for any security (or any combination thereof) then included in the underlying index or such successor index, as applicable.

If the index sponsor discontinues publication of the underlying index and the index sponsor or another entity publishes a successor or substitute index that the calculation agent determines, in its sole discretion, to be comparable to the discontinued index (such index being referred to herein as a “successor index”), then the closing level of the underlying index on the valuation date will be determined by reference to the level of such successor index at the close of trading on the relevant exchange for the successor index on such day.

Upon any selection by the calculation agent of a successor index, the calculation agent will cause written notice to be promptly furnished to the trustee, to us and to the holders of the securities.

Discontinuation of/adjustments to the underlying index:

If the index sponsor discontinues publication of the underlying index prior to, and that discontinuation is continuing on, the valuation date, and the calculation agent determines, in its sole discretion, that no successor index is available at that time or the calculation agent has previously selected a successor index and publication of that successor index is discontinued prior to, and that discontinuation is continuing on, the valuation date, then the calculation agent will determine the closing level of the underlying index for that date. The closing level of the underlying index will be computed by the calculation agent in accordance with the formula for and method of calculating the underlying index or successor index, as applicable, last in effect prior to the discontinuation, using the closing price (or, if trading in the relevant securities has been materially suspended or materially limited, the calculation agent’s good faith estimate of the closing price that would have prevailed but for the suspension or limitation) at the close of the principal trading session on that date of each security most recently included in the underlying index or successor index, as applicable.

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If at any time the method of calculating the underlying index or a successor index, or the level thereof, is changed in a material respect, or if the underlying index or a successor index is in any other way modified so that the underlying index or successor index does not, in the opinion of the calculation agent, fairly represent the level of the underlying index or successor index had those changes or modifications not been made, then the calculation agent will, at the close of business in New York City on the date on which the closing level of the underlying index is to be determined, make any calculations and adjustments as, in the good faith judgment of the calculation agent, may be necessary in order to arrive at a level of a stock index comparable to the underlying index or successor index, as the case may be, as if those changes or modifications had not been made, and calculate the closing level of the underlying index with reference to the underlying index or such successor index, as adjusted. Accordingly, if the method of calculating the underlying index or a successor index is modified so that the level of the underlying index or such successor index is a fraction of what it would have been if there had been no such modification (e.g., due to a split in the underlying index), then the calculation agent will adjust its calculation of the underlying index or such successor index in order to arrive at a level of the underlying index or such successor index as if there had been no such modification (e.g., as if such split had not occurred).

Notwithstanding these alternative arrangements, discontinuation the publication of or modification of the underlying index or successor index, as applicable, may adversely affect the value of the securities. A business day means a Monday, Tuesday, Wednesday, Thursday or Friday that is not a day on which

Business day: banking institutions in The City of New York generally are authorized or obligated by law, regulation or executive order to close.

A trading day means a day, as determined by the calculation agent, on which trading is generally conducted on (i) the relevant exchanges for securities comprising the underlying index or the successor index and (ii) the exchanges on which futures or options contracts related to the underlying index or the successor index are traded, other than a day on which trading on such relevant exchange or exchange on which such futures or options contracts are traded is scheduled to close prior to its regular weekday closing time.

Default interest upon acceleration: In the event we fail to make a payment on the maturity date, any overdue payment in respect of such payment on the securities will bear interest until the date upon which all sums due are received by or on behalf of the relevant holder, at a rate per annum which is the rate for deposits in U.S. dollars for a period of six months which appears on the Reuters Screen LIBOR page as of 11:00 a.m. (London time) on the first business day following such failure to pay. Such rate shall be determined by the calculation agent. If interest is required to be calculated for a period of less than one year, it will be calculated on the basis of a 360-day year consisting of the actual number of days in the period.

Events of default and acceleration: If the maturity of the securities is accelerated upon an event of default under the Indenture, the amount payable upon acceleration will be determined by the calculation agent. Such amount will be the payment at maturity, calculated as if the date of declaration of acceleration were the valuation date.

Minimum ticketing size: \$1,000 / 100 securities

Additional amounts: We will pay any amounts to be paid by us on the securities without deduction or withholding for, or on account of, any and all present or future income, stamp and other taxes, levies, imposts, duties, charges, fees, deductions or withholdings (“taxes”) now or hereafter imposed, levied, collected, withheld or assessed by or on behalf of Canada or any Canadian political subdivision or authority that has the power to tax, unless the deduction or withholding is required by law or by the interpretation or administration thereof by the relevant governmental authority. At any time a Canadian taxing jurisdiction requires us to deduct or withhold for or on account of taxes from any payment made under or in respect of the securities, we will pay such additional amounts (“Additional Amounts”) as may be



necessary so that the net amounts received by each holder (including Additional Amounts), after such deduction or withholding, shall not be less than the amount the holder would have received had no such deduction or

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withholding been required.

However, no Additional Amounts will be payable with respect to a payment made to a holder of a security or of a right to receive payments in respect thereto (a "Payment Recipient"), which we refer to as an "Excluded Holder," in respect of any taxes imposed because the beneficial owner or Payment Recipient:

- (i) is someone with whom we do not deal at arm's length (within the meaning of the Income Tax Act (Canada)) at the time of making such payment;
- (ii) is subject to such taxes by reason of its being connected presently or formerly with Canada or any province or territory thereof otherwise than by reason of the holder's activity in connection with purchasing the securities, the holding of the securities or the receipt of payments thereunder;
- (iii) is, or does not deal at arm's length with a person who is, a "specified shareholder" (within the meaning of subsection 18(5) of the Income Tax Act (Canada)) of Royal Bank of Canada (generally a person will be a "specified shareholder" for this purpose if that person, either alone or together with persons with whom the person does not deal at arm's length, owns 25% or more of (a) our voting shares, or (b) the fair market value of all of our issued and outstanding shares);
- (iv) presents such security for payment (where presentation is required) more than 30 days after the relevant date (except to the extent that the holder thereof would have been entitled to such Additional Amounts on presenting a security for payment on the last day of such 30 day period); for this purpose, the "relevant date" in relation to any payments on any security means:
  - a. the due date for payment thereof, or
  - b. if the full amount of the monies payable on such date has not been received by the trustee on or prior to such due date, the date on which the full amount of such monies has been received and notice to that effect is given to holders of the securities in accordance with the Indenture;
- (v) could lawfully avoid (but has not so avoided) such withholding or deduction by complying, or requiring that any agent comply with, any statutory requirements necessary to establish qualification for an exemption from withholding or by making, or requiring that any agent make, a declaration of non-residence or other similar claim for exemption to any relevant tax authority; or
- (vi) is subject to deduction or withholding on account of any tax, assessment, or other governmental charge that is imposed or withheld by reason of the application of Section 1471 through 1474 of the United States Internal Revenue Code of 1986, as amended (the "Code") (or any successor provisions), any regulation, pronouncement, or agreement thereunder, official interpretations thereof, or any law implementing an intergovernmental approach thereto, whether currently in effect or as published and amended from time to time.

For the avoidance of doubt, we will not have any obligation to pay any holders Additional Amounts on any tax which is payable otherwise than by deduction or withholding from payments made under or in respect of the securities at maturity.

We will also make such withholding or deduction and remit the full amount deducted or withheld to the relevant authority in accordance with applicable law. We will furnish to the trustee, within 30 days after the date the payment of any taxes is due pursuant to applicable law, certified copies of tax receipts evidencing that such payment has been made or other evidence of such payment satisfactory to the trustee. We will indemnify and hold harmless

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each holder of the securities (other than an Excluded Holder) and upon written request reimburse each such holder for the amount of (x) any taxes so levied or imposed and paid by such holder as a result of payments made under or with respect to the securities, and (y) any taxes levied or imposed and paid by such holder with respect to any reimbursement under (x) above, but excluding any such taxes on such holder's net income or capital.

For additional information, see the section entitled "Tax Consequences—Canadian Taxation" in the accompanying prospectus.

Form of the securities:

Book-entry

Trustee:

The Bank of New York Mellon

Calculation agent:

RBCCM. The calculation agent will make all determinations regarding the securities. Absent manifest error, all determinations of the calculation agent will be final and binding on you and us, without any liability on the part of the calculation agent. You will not be entitled to any compensation from us for any loss suffered as a result of any of the above determinations or confirmations by the calculation agent.

Contact:

Morgan Stanley Wealth Management clients may contact their local Morgan Stanley Wealth Management branch office or our principal executive offices at 1585 Broadway, New York, New York 10036 (telephone number 1-(866)-477-4776). All other clients may contact their local brokerage representative. Third-party distributors may contact Morgan Stanley Structured Investment Sales at 1-(800)-233-1087.

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Information About the Underlying Index

All disclosures contained in this document regarding the underlying index, including, without limitation, its make-up, method of calculation, and changes in its components, have been derived from publicly available sources. The information reflects the policies of, and is subject to change by, STOXX Limited, as the sponsor of the underlying index (the “index sponsor”). The index sponsor, which owns the copyright and all other rights to the underlying index, has no obligation to continue to publish, and may discontinue publication of, the underlying index. The consequences of the index sponsor discontinuing publication of the underlying index are discussed above in the section entitled “Additional Terms of the Securities—Discontinuation of/adjustments to the underlying index.” Neither we nor RBCCM accepts any responsibility for the calculation, maintenance or publication of the underlying index or any successor index.

EURO STOXX 50<sup>®</sup> Index (“SX5E”)

The SX5E was created by STOXX Limited, a subsidiary of Deutsche Börse AG. Publication of the SX5E began in February 1998, based on an initial index level of 1,000 at December 31, 1991.

Composition and Maintenance

The SX5E is composed of 50 component stocks of market sector leaders from within the 19 EURO STOXX<sup>®</sup> Supersector indices, which represent the Eurozone portion of the STOXX Europe 600<sup>®</sup> Supersector indices. The composition of the SX5E is reviewed annually, based on the closing stock data on the last trading day in August. The component stocks are announced on the first trading day in September. Changes to the component stocks are implemented on the third Friday in September and are effective the following trading day. Changes in the composition of the SX5E are made to ensure that the SX5E includes the 50 market sector leaders from within the SX5E. The free float factors for each component stock used to calculate the SX5E, as described below, are reviewed, calculated, and implemented on a quarterly basis and are fixed until the next quarterly review. The SX5E is also reviewed on an ongoing basis. Corporate actions (including initial public offerings, mergers and takeovers, spin-offs, delistings, and bankruptcy) that affect the SX5E composition are announced immediately, implemented two trading days later, and become effective on the next trading day after implementation.

Calculation of the SX5E

The SX5E is calculated with the “Laspeyres formula,” which measures the aggregate price changes in the component stocks against a fixed base quantity weight. The formula for calculating the SX5E value can be expressed as follows:

$$\text{SX5E} = \frac{\text{Free float market capitalization of the SX5E}}{\text{Divisor}} \times 1,000$$

The “free float market capitalization of the SX5E” is equal to the sum of the products of the closing price, market capitalization, the number of shares, the free float factor and weighing cap factor for each component stock as of the time the SX5E is being calculated.

The SX5E is also subject to a divisor, which is adjusted to maintain the continuity of the SX5E values across changes due to corporate actions, such as the deletion and addition of stocks, the substitution of stocks, stock dividends, and stock splits.

License Agreement

We have entered into a non-exclusive license agreement with STOXX providing for the license to us and certain of our affiliated or subsidiary companies, in exchange for a fee, of the right to use indices owned and published by STOXX (including the SX5E) in connection with certain securities, including the securities offered hereby.

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The license agreement between us and STOXX requires that the following language be stated in this document: STOXX has no relationship to us, other than the licensing of the SX5E and the related trademarks for use in connection with the securities. STOXX does not:

- sponsor, endorse, sell, or promote the securities;
- recommend that any person invest in the securities offered hereby or any other securities;
- have any responsibility or liability for or make any decisions about the timing, amount, or pricing of the securities;
- have any responsibility or liability for the administration, management, or marketing of the securities; or consider the needs of the securities or the holders of the securities in determining, composing, or calculating the SX5E, or have any obligation to do so.

STOXX will not have any liability in connection with the securities. Specifically:

- STOXX does not make any warranty, express or implied, and disclaims any and all warranty concerning: the results to be obtained by the securities, the holders of the securities or any other person in connection with the use of the SX5E and the data included in the SX5E;
- the accuracy or completeness of the SX5E and its data;
- the merchantability and the fitness for a particular purpose or use of the SX5E and its data;
- STOXX will have no liability for any errors, omissions, or interruptions in the SX5E or its data; and

Under no circumstances will STOXX be liable for any lost profits or indirect, punitive, special, or consequential damages or losses, even if STOXX knows that they might occur.

The licensing agreement between us and STOXX is solely for their benefit and our benefit, and not for the benefit of the holders of the securities or any other third parties.

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Historical Information

The graph below sets forth the daily official closing levels of the underlying index for the period from January 1, 2012 through November 22, 2017. The table below the graph sets forth the published high and low official closing levels, as well as the end-of-quarter official closing levels, of the underlying index for the same period.

We obtained the information below from Bloomberg Financial Markets, without independent verification.

You should not take the historical levels of the underlying index as an indication of future performance, and no assurance can be given as to the level of the underlying index on the valuation date.

EURO STOXX 50<sup>®</sup> Index

Information as of market close on November 22, 2017:

|                              |   |
|------------------------------|---|
| Bloomberg Index Symbol: SX5E | 52 Week High (on 11/1/2017): 3,697.40         |
| Current Index Level:         | 3,562.65 52 Week Low (on 12/2/2016): 3,015.13 |
| 52 Weeks Ago:                | 3,044.33                                      |

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|  | High     | Low      | Period End |
|--|----------|----------|------------|
| 2012                                       |          |          |            |
| First Quarter                              | 2,608.42 | 2,286.45 | 2,477.28   |
| Second Quarter                             | 2,501.18 | 2,068.66 | 2,264.72   |
| Third Quarter                              | 2,594.56 | 2,151.54 | 2,454.26   |
| Fourth Quarter                             | 2,659.95 | 2,427.32 | 2,635.93   |
| 2013                                       |          |          |            |
| First Quarter                              | 2,749.27 | 2,570.52 | 2,624.02   |
| Second Quarter                             | 2,835.87 | 2,511.83 | 2,602.59   |
| Third Quarter                              | 2,936.20 | 2,570.76 | 2,893.15   |
| Fourth Quarter                             | 3,111.37 | 2,902.12 | 3,109.00   |
| 2014                                       |          |          |            |
| First Quarter                              | 3,172.43 | 2,962.49 | 3,161.60   |
| Second Quarter                             | 3,314.80 | 3,091.52 | 3,228.24   |
| Third Quarter                              | 3,289.75 | 3,006.83 | 3,225.93   |
| Fourth Quarter                             | 3,277.38 | 2,874.65 | 3,146.43   |
| 2015                                       |          |          |            |
| First Quarter                              | 3,731.35 | 3,007.91 | 3,697.38   |
| Second Quarter                             | 3,828.78 | 3,424.30 | 3,424.30   |
| Third Quarter                              | 3,686.58 | 3,019.34 | 3,100.67   |
| Fourth Quarter                             | 3,506.45 | 3,069.05 | 3,267.52   |
| 2016                                       |          |          |            |
| First Quarter                              | 3,178.01 | 2,680.35 | 3,004.93   |
| Second Quarter                             | 3,151.69 | 2,697.44 | 2,864.74   |
| Third Quarter                              | 3,091.66 | 2,761.37 | 3,002.24   |
| Fourth Quarter                             | 3,290.52 | 2,954.53 | 3,290.52   |
| 2017                                       |          |          |            |
| First Quarter                              | 3,500.93 | 3,230.68 | 3,500.93   |
| Second Quarter                             | 3,658.79 | 3,409.78 | 3,441.88   |
| Third Quarter                              | 3,594.85 | 3,388.22 | 3,594.85   |
| Fourth Quarter (through November 22, 2017) | 3,697.40 | 3,545.72 | 3,562.65   |





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##### Canadian Federal Income Tax Consequences

An investor should read carefully the description of material Canadian federal income tax considerations relevant to a Non-resident Holder owning debt securities under “Tax Consequences—Canadian Taxation” in the accompanying prospectus.

##### Supplemental Discussion of U.S. Federal Income Tax Consequences

The following, together with the discussion of U.S. federal income taxation in the accompanying prospectus and prospectus supplement, is a general description of the material U.S. tax considerations relating to the securities. It does not purport to be a complete analysis of all tax considerations relating to the securities. Prospective purchasers of the securities should consult their tax advisors as to the consequences under the tax laws of the country of which they are resident for tax purposes and the tax laws of Canada and the U.S. of acquiring, holding and disposing of the securities and receiving payments under the securities. This summary is based upon the law as in effect on the date of this document and is subject to any change in law that may take effect after such date.

##### Supplemental U.S. Tax Considerations

The following section supplements the discussion of U.S. federal income taxation in the accompanying prospectus and prospectus supplement. It applies only to those initial holders who are not excluded from the discussion of U.S. federal income taxation in the accompanying prospectus.

**NO STATUTORY, JUDICIAL OR ADMINISTRATIVE AUTHORITY DIRECTLY DISCUSSES HOW THE SECURITIES SHOULD BE TREATED FOR U.S. FEDERAL INCOME TAX PURPOSES. AS A RESULT, THE U.S. FEDERAL INCOME TAX CONSEQUENCES OF AN INVESTMENT IN THE SECURITIES ARE UNCERTAIN. BECAUSE OF THE UNCERTAINTY, YOU SHOULD CONSULT YOUR TAX ADVISOR IN DETERMINING THE U.S. FEDERAL INCOME TAX AND OTHER TAX CONSEQUENCES OF YOUR INVESTMENT IN THE SECURITIES, INCLUDING THE APPLICATION OF STATE, LOCAL OR OTHER TAX LAWS AND THE POSSIBLE EFFECTS OF CHANGES IN FEDERAL OR OTHER TAX LAWS.**

We will not attempt to ascertain whether any of the entities whose stock is included in the underlying index would be treated as a “passive foreign investment company” within the meaning of Section 1297 of the Code, or a “U.S. real property holding corporation” within the meaning of Section 897 of the Code. If any of the entities whose stock is included in the underlying index were so treated, certain adverse U.S. federal income tax consequences could possibly apply to U.S. and non-U.S. holders, respectively. You should refer to any available information filed with the SEC and other authorities by the entities whose stock is included in the underlying index and consult your tax advisor regarding the possible consequences to you in this regard.

In the opinion of our counsel, Morrison & Foerster LLP, it would generally be reasonable to treat a security as a pre-paid cash-settled derivative contract in respect of the underlying index for U.S. federal income tax purposes, and the terms of the securities require a holder and us (in the absence of a change in law or an administrative or judicial ruling to the contrary) to treat the securities for all tax purposes in accordance with such characterization. If the securities are so treated, a U.S. holder should generally recognize capital gain or loss upon the sale, exchange or maturity of the securities in an amount equal to the difference between the amount a holder receives at such time and the holder’s tax basis in the securities. In general, a U.S. holder’s tax basis in the securities will be equal to the price the holder paid for the securities. Capital gain recognized by an individual U.S. holder is generally taxed at preferential rates where the property is held for more than one year and is generally taxed at ordinary income rates where the property is held for one year or less. The deductibility of capital losses is subject to limitations.

Alternative Treatments. Alternative tax treatments of the securities are also possible and the IRS might assert that a treatment other than that described above is more appropriate. For example, it is possible to treat the securities, and the IRS might assert that a security should be treated, as a single debt instrument. Pursuant to such characterization, since the securities have a term that exceeds one year, such a debt instrument would be subject to the special tax rules governing contingent payment debt instruments. If the securities are so treated, a holder would generally be required to accrue interest income over the term of the securities based upon the yield at which we would issue a non-contingent fixed-rate debt instrument with terms and conditions similar to the securities. In addition, any gain a

holder might recognize upon the sale, exchange or maturity of the securities would generally be ordinary income and any loss recognized by a holder at such time would generally be ordinary loss to the extent of interest that same holder included in income in the current or previous taxable years in respect of the securities, and thereafter, would be capital loss.

Because of the absence of authority regarding the appropriate tax characterization of the securities, it is also possible that the IRS could seek to characterize the securities in a manner that results in tax consequences that are different from those described above. For example, the IRS could possibly assert that any gain or loss that a holder may recognize upon the sale, exchange or maturity of the securities should be treated as ordinary gain or loss.

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The IRS has released a notice that may affect the taxation of holders of the securities. According to the notice, the IRS and the U.S. Treasury Department are actively considering whether the holder of an instrument such as the securities should be required to accrue ordinary income on a current basis. It is not possible to determine what guidance they will ultimately issue, if any. It is possible, however, that under such guidance, holders of the securities will ultimately be required to accrue income currently and this could be applied on a retroactive basis. The IRS and the U.S. Treasury Department are also considering other relevant issues, including whether additional gain or loss from such instruments should be treated as ordinary or capital and whether the constructive ownership rules of Section 1260 of the Code, which very generally can operate to recharacterize certain long-term capital gains as ordinary income and impose an interest charge, might be applied to such instruments. Holders are urged to consult their tax advisors concerning the significance, and the potential impact, of the above considerations. We intend to treat the securities for U.S. federal income tax purposes in accordance with the treatment described in this document unless and until such time as the U.S. Treasury Department and IRS determine that some other treatment is more appropriate.

**Backup Withholding and Information Reporting.** Payments made with respect to the securities and proceeds from the sale or exchange of the securities may be subject to a backup withholding tax unless, in general, the holder complies with certain procedures or is an exempt recipient. Any amounts so withheld generally will be refunded by the IRS or allowed as a credit against the holder's U.S. federal income tax liability, provided the holder makes a timely filing of an appropriate tax return or refund claim to the IRS.

Reports will be made to the IRS and to holders that are not exempted from the reporting requirements.

**Non-U.S. Holders.** The following discussion applies to non-U.S. holders of the securities. A non-U.S. holder is a beneficial owner of a security that, for U.S. federal income tax purposes, is a non-resident alien individual, a foreign corporation, or a foreign estate or trust.

Except as described below, a non-U.S. holder will generally not be subject to U.S. federal income or withholding tax for amounts paid in respect of the securities, provided that (i) the holder complies with any applicable certification requirements, (ii) the payment is not effectively connected with the conduct by the holder of a U.S. trade or business, and (iii) if the holder is a non-resident alien individual, such holder is not present in the U.S. for 183 days or more during the taxable year of the sale, exchange or maturity of the securities. In the case of (ii) above, the holder generally would be subject to U.S. federal income tax with respect to any income or gain in the same manner as if the holder were a U.S. holder and, in the case of a holder that is a corporation, the holder may also be subject to a branch profits tax equal to 30% (or such lower rate provided by an applicable U.S. income tax treaty) of a portion of its earnings and profits for the taxable year that are effectively connected with its conduct of a U.S. trade or business, subject to certain adjustments. Payments made to a non-U.S. holder may be subject to information reporting and to backup withholding unless the holder complies with applicable certification and identification requirements as to its foreign status.

Under Section 871(m) of the Code, a "dividend equivalent" payment is treated as a dividend from sources within the United States. Such payments generally would be subject to a 30% U.S. withholding tax if paid to a non-U.S. holder. Under U.S. Treasury Department regulations, payments (including deemed payments) with respect to equity-linked instruments ("ELIs") that are "specified ELIs" may be treated as dividend equivalents if such specified ELIs reference an interest in an "underlying security," which is generally any interest in an entity taxable as a corporation for U.S. federal income tax purposes if a payment with respect to such interest could give rise to a U.S. source dividend. However, the IRS has issued guidance that states that the U.S. Treasury Department and the IRS intend to amend the effective dates of the U.S. Treasury Department regulations to provide that withholding on dividend equivalent payments will not apply to specified ELIs that are not delta-one instruments and that are issued before January 1, 2019. Based on our determination that the securities are not delta-one instruments, non-U.S. holders should not be subject to withholding on dividend equivalent payments, if any, under the securities. However, it is possible that the securities could be treated as deemed reissued for U.S. federal income tax purposes upon the occurrence of certain events affecting the underlying index or the securities (for example, upon an underlying index rebalancing), and following such occurrence the securities could be treated as subject to withholding on dividend equivalent payments. Non-U.S.

holders that enter, or have entered, into other transactions in respect of the underlying index or the securities should consult their tax advisors as to the application of the dividend equivalent withholding tax in the context of the securities and their other transactions. If any payments are treated as dividend equivalents subject to withholding, we (or the applicable withholding agent) would be entitled to withhold taxes without being required to pay any additional amounts with respect to amounts so withheld.

As discussed above, alternative characterizations of the securities for U.S. federal income tax purposes are possible. Should an alternative characterization, by reason of change or clarification of the law, by regulation or otherwise, cause payments as to the securities to become subject to withholding tax, we will withhold tax at the applicable statutory rate. The IRS has also indicated that it is considering whether income in respect of instruments such as the securities should be subject to withholding tax. We will not be required to pay any additional amounts in respect of such withholding. Prospective investors should consult their own tax advisors in this regard.

Foreign Account Tax Compliance Act. The Foreign Account Tax Compliance Act (“FATCA”) imposes a 30% U.S. withholding tax on certain U.S.-source payments, including interest (and OID), dividends, other fixed or determinable annual or periodical gain,

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profits, and income, and on the gross proceeds from a disposition of property of a type which can produce U.S. source interest or dividends (“Withholdable Payments”), if paid to a foreign financial institution (including amounts paid to a foreign financial institution on behalf of a holder), unless such institution enters into an agreement with the U.S. Treasury Department to collect and provide to the U.S. Treasury Department certain information regarding U.S. financial account holders, including certain account holders that are foreign entities with U.S. owners, with such institution or otherwise complies with FATCA. In addition, the securities may constitute a “financial account” for these purposes and thus, be subject to information reporting requirements pursuant to FATCA. FATCA also generally imposes a withholding tax of 30% on Withholdable Payments made to a non-financial foreign entity unless such entity provides the withholding agent with a certification that it does not have any substantial U.S. owners or a certification identifying the direct and indirect substantial U.S. owners of the entity. Under certain circumstances, a holder may be eligible for refunds or credits of such taxes.

The U.S. Treasury Department and the IRS have announced that withholding on payments of gross proceeds from a sale or redemption of the securities will only apply to payments made after December 31, 2018. If we determine withholding is appropriate with respect to the securities, we will withhold tax at the applicable statutory rate, and we will not pay any additional amounts in respect of such withholding. Therefore, if such withholding applies, any payments on the securities will be significantly less than what you would have otherwise received. Depending on your circumstances, these amounts withheld may be creditable or refundable to you. Foreign financial institutions and non-financial foreign entities located in jurisdictions that have an intergovernmental agreement with the United States governing FATCA may be subject to different rules. Prospective investors are urged to consult with their own tax advisors regarding the possible implications of FATCA on their investment in the securities.

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Use of Proceeds and Hedging

The net proceeds from the sale of the securities will be used as described under “Use of Proceeds” in the accompanying prospectus supplement and prospectus and to hedge market risks of Royal Bank of Canada associated with its obligation to make the payment at maturity on the securities. The initial public offering price of the securities includes the underwriting discount and commission and the estimated cost of hedging our obligations under the securities.

Supplemental Information Regarding Plan of Distribution;

Conflicts of Interest

Pursuant to the terms of a distribution agreement, RBCCM, an affiliate of Royal Bank of Canada, will purchase the securities from Royal Bank of Canada for distribution to Morgan Stanley Wealth Management. RBCCM will act as agent for the securities and will receive a fee of \$0.30 per \$10 stated principal amount and will pay to Morgan Stanley Wealth Management a fixed sales commission of \$0.25 for each of the securities they sell. Of the amount per \$10 stated principal amount received by RBCCM, RBCCM will pay Morgan Stanley Wealth Management a structuring fee of \$0.05 for each security.

Morgan Stanley Wealth Management may reclaim selling concessions allowed to individual brokers within Morgan Stanley Wealth Management in connection with the offering if, within 30 days of the offering, Royal Bank of Canada repurchases the securities distributed by such brokers.

We expect that delivery of the securities will be made against payment for the securities on or about December 5, 2017, which is the third business day following the pricing date (this settlement cycle being referred to as “T+3”). We expect to deliver the securities on a date that is greater than two business days following the trade date. Under Rule 15c6-1 of the Exchange Act, trades in the secondary market generally are required to settle in two business days, unless the parties to any such trade expressly agree otherwise. Accordingly, purchasers who wish to trade the securities more than two business days prior to the original issue date will be required to specify alternative settlement arrangements to prevent a failed settlement.

In addition, RBCCM or another of its affiliates or agents may use this document in market-making transactions after the initial sale of the securities, but is under no obligation to do so and may discontinue any market-making activities at any time without notice.

For additional information as to the relationship between us and RBCCM, please see the section “Plan of Distribution—Conflicts of Interest” in the accompanying prospectus.

The value of the securities shown on your account statement may be based on RBCCM’s estimate of the value of the securities if RBCCM or another of our affiliates were to make a market in the securities (which it is not obligated to do). That estimate will be based on the price that RBCCM may pay for the securities in light of then prevailing market conditions, our creditworthiness and transaction costs. For an initial period of approximately 15 months, the value of the securities that may be shown on your account statement is expected to be higher than RBCCM’s estimated value of the securities at that time. This is because the estimated value of the securities will not include the agent’s commission and our hedging costs and profits; however, the value of the securities shown on your account statement during that period is initially expected to be a higher amount, reflecting the addition of the agent’s commission and our estimated costs and profits from hedging the securities. This excess is expected to decrease over time until the end of this period, and we reserve the right to shorten this period. After this period, if RBCCM repurchases your securities, it expects to do so at prices that reflect its estimated value.

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##### Structuring the Securities

The securities are our debt securities, the return on which is linked to the performance of the underlying index. As is the case for all of our debt securities, including our structured notes, the economic terms of the securities reflect our actual or perceived creditworthiness at the time of pricing. In addition, because structured notes result in increased operational, funding and liability management costs to us, we typically borrow the funds under these securities at a rate that is more favorable to us than the rate that we might pay for a conventional fixed or floating rate debt security of comparable maturity. Using this relatively lower implied borrowing rate, rather than the secondary market rate, along with the fees and expenses associated with structured notes, typically reduces the initial estimated value of the securities at the time their terms are set. Unlike the estimated value included in this document, any value of the securities determined for purposes of a secondary market transaction may be based on a different funding rate, which may result in a lower value for the securities than if our initial internal funding rate were used.

In order to satisfy our payment obligations under the securities, we may choose to enter into certain hedging arrangements (which may include call options, put options or other derivatives) on the issue date with RBCCM or one of our other subsidiaries. The terms of these hedging arrangements take into account a number of factors, including our creditworthiness, interest rate movements, the volatility of the underlying index, and the tenor of the securities. The economic terms of the securities and their initial estimated value depend in part on the terms of these hedging arrangements.

The lower implied borrowing rate, the underwriting commission and the hedging-related costs relating to the securities reduce the economic terms of the securities to you and result in the initial estimated value for the securities on the pricing date being less than their public offering price. See “Risk Factors—The initial estimated value of the securities will be less than the price to the public” above.

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Employee Retirement Income Security Act

This section is only relevant to you if you are an insurance company or the fiduciary of a pension plan or an employee benefit plan (including a governmental plan, an IRA or a Keogh Plan) proposing to invest in the securities.

The Employee Retirement Income Security Act of 1974, as amended (“ERISA”), imposes certain requirements on “employee benefit plans” (as defined in Section 3(3) of ERISA) subject to ERISA, including entities such as collective investment funds and separate accounts whose underlying assets include the assets of such plans (collectively, “ERISA Plans”) and on those persons who are fiduciaries with respect to ERISA Plans. Each fiduciary of an ERISA Plan should consider the fiduciary standards of ERISA in the context of the ERISA Plan’s particular circumstances before authorizing an investment in the securities. Accordingly, among other factors, the fiduciary should consider whether the investment would satisfy the prudence and diversification requirements of ERISA and would be consistent with the documents and instruments governing the ERISA Plan.

In addition, Section 406 of ERISA and Section 4975 of the Internal Revenue Code prohibit certain transactions involving the assets of an ERISA Plan, as well as those plans that are not subject to ERISA but which are subject to Section 4975 of the Internal Revenue Code, such as individual retirement accounts, including entities whose underlying assets include the assets of such plans (together with ERISA Plans, “Plans”) and certain persons (referred to as “parties in interest” or “disqualified persons”) having certain relationships to such Plans, unless a statutory or administrative exemption is applicable to the transaction. Governmental plans may be subject to similar prohibitions. Therefore, a plan fiduciary considering purchasing securities should consider whether the purchase or holding of such instruments might constitute a “prohibited transaction”.

Royal Bank of Canada and certain of its affiliates each may be considered a “party in interest” or a “disqualified person” with respect to many employee benefit plans by reason of, for example, Royal Bank of Canada (or its affiliate) providing services to such plans. Prohibited transactions within the meaning of ERISA or the Internal Revenue Code may arise, for example, if securities are acquired by or with the assets of a Plan, and with respect to which Royal Bank of Canada or any of its affiliates is a “party in interest” or a “disqualified person”, unless those securities are acquired under an exemption for transactions effected on behalf of that Plan by a “qualified professional asset manager” or an “in-house asset manager”, for transactions involving insurance company general accounts, for transactions involving insurance company pooled separate accounts, for transactions involving bank collective investment funds, or under another available exemption. Section 408(b)(17) provides an additional exemption for the purchase and sale of securities and related lending transactions where neither the issuer of the securities nor any of its affiliates have or exercise any discretionary authority or control or render any investment advice with respect to the assets of any Plan involved in the transaction and the Plan pays no more than “adequate consideration” in connection with the transaction. The person making the decision on behalf of a Plan or a governmental plan shall be deemed, on behalf of itself and any such plan, by purchasing and holding the securities, or exercising any rights related thereto, to represent that (a) such purchase, holding and exercise of the securities will not result in a non-exempt prohibited transaction under ERISA or the Internal Revenue Code (or, with respect to a governmental plan, under any similar applicable law or regulation) and (b) neither Royal Bank of Canada nor any of its affiliates is a “fiduciary” (within the meaning of Section 3(21) of ERISA) with respect to the purchaser or holder in connection with such person’s acquisition, disposition or holding of the securities, or any exercise related thereto or as a result of any exercise by Royal Bank of Canada or any of its affiliates of any rights in connection with the securities, and no advice provided by Royal Bank of Canada or any of its affiliates has formed a primary basis for any investment decision by or on behalf of such purchaser or holder in connection with the securities and the transactions contemplated with respect to the securities.

If you are an insurance company or the fiduciary of a pension plan or an employee benefit plan, and propose to invest in the securities, you should consult your legal counsel.



