

RBC EUROPE LIMITED

PILLAR 3 DISCLOSURE

As at 31st October 2021

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1 OVERVIEW

1.1 BUSINESS PROFILE

RBC Europe Limited (RBCEL, the Company) is a wholly owned subsidiary of Royal Bank of Canada (RBC), a leading provider of financial services globally. RBC is a global financial institution with a purpose-driven, principles-led approach to delivering leading performance. RBC's success comes from the 88,000+ employees who leverage their imaginations and insights to bring our vision, values and strategy to life so we can help our clients thrive and communities prosper. As Canada's biggest bank, and one of the largest in the world based on market capitalization, we have a diversified business model with a focus on innovation and providing exceptional experiences to our 17 million clients in Canada, the U.S. and 27 other countries.

The Company is a UK authorised bank and provides investment banking, capital markets and wealth management services to a wide range of clients including financial institutions, corporations, governments and High-Net-Worth clients. The Company works with its clients to help raise capital, access markets, mitigate risk and acquire or divest assets.

The Company obtained a Standard & Poor's rating in October 2014. As of 31 October 2021 the Company's long- and short-term counterparty credit rating assigned by Standard & Poor's are unchanged at AA-/A-1+.

As at 31 October 2021, the Company does not have any subsidiaries or any investment in associates (2020: nil).

1.2 BASIS AND FREQUENCY OF DISCLOSURES

Basel III is a global regulatory standard on bank capital adequacy, stress testing and market liquidity risk. It intended to strengthen global capital and liquidity rules with the goal of improving the banking sector's ability to absorb shocks arising from financial and economic stress, thus reducing the risk of spillover from the financial sector to the real economy.

The EU implemented the Basel framework through the new Capital Requirements Directive and Regulation (CRD IV package). Additional provisions are applied in the UK through the PRA Rulebook. The Basel III capital adequacy framework comprises three complementary pillars:

- Pillar 1 establishes rules for the calculation of minimum capital for Credit, Market, Operational Risk and Leverage (capital adequacy requirements).
- Pillar 2 is an internal discipline to evaluate the adequacy of the regulatory capital requirement under Pillar 1 and other non-Pillar 1 risks. This part of the regulatory framework requires banks to conduct an internal assessment of their capital requirements (risk management and supervision) and consider whether additional capital should be held against particular risks. Banks' supervisors then undertake a supervisory review to assess the robustness of the bank's internal assessment.
- Pillar 3 complements the other pillars and effects market discipline through public disclosure. Expanded disclosure about capital and risk enables interested parties to better understand the risk profile of individual banks and to make comparisons (market discipline).

The aim of Pillar 3 is to publish a set of disclosures which allow market participants to assess key information on the capital condition, risk exposures and risk assessment process. The information disclosed is prepared in accordance with the disclosure requirements set out in Part Eight of the Capital Requirement Regulation (CRR). The disclosures may differ from similar information in the Company's financial statements for the year ended 31 October 2021, which are prepared in accordance with International Financial Reporting Standards (IFRS). Therefore, the information in these disclosures may not be directly comparable with that information.

The Company updates these disclosures on an annual basis as at its financial year end of 31 October. The Company will assess the need to publish some or all disclosures more frequently than annually in the light of the criteria specified in Article 433 of the CRR and in accordance with European Banking Authority's Guidelines on materiality, proprietary information and confidentiality, and on disclosure frequency.

In preparing these disclosures, management has adjusted certain prior year amounts to conform to current year presentation. These adjustments do not have any impact on the Company's capital condition and risk exposures, unless stated otherwise.

Location and Verification

These disclosures have been reviewed and approved by the Company's Audit Committee and Board. A copy of these disclosures is also available on RBC Group's corporate website at <http://www.rbc.com/aboutus/rbcel-index.html>.

1.3 RISK GOVERNANCE

The Company has a clear and robust corporate and risk governance framework in order to manage, control and provide assurance on risk on behalf of both internal and external stakeholders. The governance structure determines the relationships between the Company's Board of Directors (the Board), Management, RBC Group and other stakeholders. It also defines the framework in which values are established and the context in which corporate strategies and objectives are set.

The Company considers its risk and control framework to be appropriate for the effective management of its risks and is committed to ensuring that these remain relevant and effective in a changing business environment. The Company has a well-embedded Risk Appetite Framework articulating its appetite for the type and quantum of risk through clearly defined metrics. As at 31 October 2021, all measures were within the Company's Board limits and tolerances.

1.4 REGULATORY DEVELOPMENTS

RBC EL monitors regulatory and legislative developments on an on-going basis to ensure it is prepared for forthcoming regulatory change. RBC EL has a robust operating model in place to monitor the regulatory developments. Key changes on the horizon are CRR2 and CRR3.

1.5 SUSTAINABLE FINANCE

Commitment to sustainable finance is going to be a necessary public disclosure in the future. RBC is committed to sustainable finance and started disclosing its activities, commitment and Governance as below:

Environmental Matters

The Company is part of the RBC Group which has a long history of environmental leadership commencing with the launch of the first corporate environmental policy in 1991. RBC is committed to transparent disclosure and this is shown through the reporting of key environmental performance metrics and targets in the 2020 Environmental, Social, and Governance (ESG) Performance Report (https://www.rbc.com/community-social-impact/_assets-custom/pdf/2021-ESG-Report.PDF), the 2021 TCFD Report (https://www.rbc.com/community-social-impact/_assets-custom/pdf/RBC-TCFD-Report-2021.PDF) and the 2020 RBC Climate Blueprint (http://www.rbc.com/community-sustainability/_assets-custom/pdf/RBC-Climate-Blueprint.pdf).

Climate change

The Board has taken appropriate steps to address the risks posed by climate change through updating the risk appetite statement of the Company in addition to designating appropriate Senior Management with responsibility for identifying and managing financial risk due to climate change.

The Board continues to review the Company's integration of climate risk into its risk management framework in accordance with evolving regulatory requirements.

RBC Group is committed to publishing annual climate-related disclosures that consider the recommendations of the Financial Stability Board's Task Force on Climate-related Financial Disclosures, and has provided these since 2017. (https://www.rbc.com/community-social-impact/_assets-custom/pdf/RBC-TCFD-Report-2021.PDF).

Environmental risk management

The Environmental and Social Risk Management (ESRM) process of RBC is designed to ensure we apply a suitable level of due diligence when dealing with clients and transactions. As part of the RBC Group, the Company is subject to a suite of ESRM policies designed to identify, assess and mitigate the environmental and social risks associated with providing banking services to our clients. When appropriate, these issues are escalated to our dedicated ESRM team for additional risk review and assessment. The ESRM policies and procedures are proactively reviewed and updated to address regulatory changes, emerging and evolving issues, and industry best practices. Please see our Responsible Financing website (<https://www.rbc.com/community-social-impact/environment/environmental-social-risk-management.html>) for more information on:

- Enterprise-wide ESRM policy
- Financing projects: The Equator Principles
- ESRM approach for Capital Markets

1.6 REGULATORY CAPITAL MANAGEMENT

As at 31 October 2021, the Company continued to be well capitalised with a Common Equity Tier 1 capital ratio of 15.1% (2020: 16.2%), Tier 1 capital ratio of 18.4% (2020: 20.0%) and Total Capital Ratio of 19.2% (2020: 21.0%).

Table 1: Distribution of Risk-weighted amount

£'000	2021	2020
Risk-weighted exposure amounts for credit and counterparty credit		
Banking book credit risk	2,993,346	2,822,108
Counterparty credit risk	1,903,528	1,368,362
Risk exposure amount for contributions to the default fund of a CCP	45,928	24,394
	4,942,803	4,214,864
Risk-weighted exposure amount settlement/delivery risk in the Trading book	2,830	602
Risk-weighted exposure amount for position, foreign exchange and commodities risks		
Interest rate	2,906,369	2,576,651
Equity	85,079	42,660
Foreign exchange risk	120,600	85,831
Commodities	18,288	2,480
	3,130,336	2,707,622
Risk-weighted exposure amount for operational risk	880,894	879,781
Risk-weighted exposure amount for credit valuation adjustment	4,061	6,734
Total	8,960,924	7,809,603

2 RISK GOVERNANCE

2.1 ACCOUNTABILITY STRUCTURE

The Company has a clear and robust corporate and risk governance framework in order to manage, control and provide assurance on risk on behalf of both internal and external stakeholders. The governance structure determines the relationships between the Board of Directors, Management, RBC and other stakeholders. It also defines the framework in which values are established and the context in which corporate strategies and objectives are set.

The strength of the company's governance starts at the top with an independent Chairman and experienced Executive and Non-Executive Directors, who give priority to strategic planning and risk oversight, ensuring that standards exist to promote appropriate behaviour throughout the organisation and driving continuous improvement in governance practices.

The RBCEL Board ("Board") is ultimately responsible for the running of the firm but has delegated day-to-day decision-making to the Chief Executive Officer. A number of Board and management committees have been established to ensure that appropriate controls and procedures are embedded to support the company's operations. Each has formal Terms of Reference (ToR) establishing the membership and responsibilities, as well as how each committee sits within the governance structure.

The mandate and membership of all committees are reviewed on a regular basis to ensure that these committees are effective and continue to be relevant to meet business and risk management needs. This allows the Board to be confident that the governance structure remains appropriate and fit for purpose. Cross-membership of various management committees also ensures that senior management have a clear picture of issues impacting the whole of the company.

2.1.1 Board of Directors

Ultimate responsibility for managing risk within the business resides with the Board of Directors (the "Board") of RBCEL. It is tasked with ensuring that an effective systems and controls framework is in place for business, risk and capital management. Through its governance structures and controls, the Board has a line-of-sight on key risks and operational controls across the firm. The Board also monitors and assesses effectiveness of controls against changing regulatory expectations.

The Board is responsible for setting the strategic risk direction and risk appetite for RBCEL. This includes:

- Clearly articulating the risk appetite for the firm and establishing mechanisms to ensure that the level of risk within the firm remains within the specified risk appetite.
- Maintaining a direct line-of-sight over key current and emerging risks across the firm.
- Overseeing the implementation of an effective systems and controls framework in place for business, risk and capital management.
- Reviewing and approving the recovery strategies outlined in the RBCEL Recovery Plan.
- Oversight for the financial objectives which to be are aligned with risk appetite and objectives.
- Monitoring and assessing the effectiveness of controls against changing regulatory expectations.

The Board consists of four Independent Non-Executive Directors (INEDs), including the Chairman, three Non-Executive Directors (NEDs) representing the shareholder (RBC), and two Executive Directors.

Recruitment Policy for Board Members

Appointments to the Board follow a formal procedure. As the Company is a wholly owned subsidiary within RBC Group, the nomination and selection of board members is undertaken in accordance with internal corporate governance practices, stated within RBC's Policy on the Legal Governance of Subsidiaries (SGO Policy). The Board has two types of directors, (i) Executive Directors (ED), and (ii) Non-Executive Directors (NED), with four directors meeting the UK Corporate Governance Code's definition of 'independent' (INED).

In 2015, the Company established a Nomination Committee as part of its enhanced Corporate Governance Framework. The Nomination Committee is responsible for:

- The identification, nomination and recommendation of INED candidates to the Board, for its consideration and approval. The nomination process follows a formal and rigorous approach, with candidates selected and assessed against established selection criteria. The Nomination Committee is governed by its Terms of Reference, under the umbrella of the SGO Policy, subject to local rules and regulations.

Recruitment Criteria/Process

Director selection is based on local applicable laws, regulations and rules, taking into consideration the skills, diversity, geographies and areas of expertise already represented on the Board. In addition to this, successful candidates undergo a robust background check, including inter alia, criminal, financial, regulatory checks and competency validation.

In relation to EDs, candidates are identified in accordance with the SGO Policy. Following consultation with the Board Chair by the Company Secretary, and positive advice and counsel from the RBC Subsidiary Governance Office, the ED candidate is proposed to the Board for its consideration, and if deemed appropriate, approval.

All Board appointments reflect RBC's core values, in particular, "Diversity & Inclusion", which is an important factor in the assessment and nomination of all proposed director appointments. In addition, the Board is governed by a Board Diversity Policy. The relevant background and professional experience of the Directors of the Board are provided in Appendix 1.

2.1.2 RBCEL Committees

RBCEL has a robust Corporate Governance and Committee Framework. The key committees are set out below:

UK Risk Committee

The UK Risk Committee (RC) is a Board committee chaired by an Independent Non-Executive Director (INED) to ensure independence and robustness of review and challenge. The RC reviews risk issues, gives advice and makes recommendations to the RBCEL Board, or other parties as appropriate, as well as making decisions on risk issues within its sphere of responsibility. The UK Risk Committee is provided with a quarterly Risk Report from the CRO covering all risk types, current risk profile and emerging trends. The Chair of the UK Risk Committee provides a quarterly update to the RBCEL Board on the work of the committee including any materials issues from a risk perspective. The RC met 8 times during the 2021 financial year. The RC holds the following primary responsibilities:

- Develop a risk appetite for RBCEL and recommend it to the Board.
- Implement an effective risk management framework including directing and approving risk policies.
- Monitor all material risk exposures, review and approve any risk exceptions to the Board risk appetite, and ensure that any breaches of risk appetite are remediated and/or escalated.
- Review and challenge the findings from the annual RBCEL Internal Capital Adequacy Assessment Process and Internal Liquidity Adequacy Assessment Process and recommend these to the Board for approval.
- Review, challenge and recommend for approval to the Board the recovery strategies outlined in the RBC UK Recovery Plan.
- Review emerging risks and changes in legal, regulatory and accounting requirements and their implications on risk management at RBCEL.

UK Audit Committee

The UK Audit Committee (AC) is responsible for providing independent assurance to the senior management and the Board of Directors on the effectiveness of risk management practices. The AC is chaired by an INED and includes three additional INEDs. Main responsibilities include:

- Monitoring the integrity of RBCEL's financial statements and reviewing and, where appropriate, making recommendations to the Board on business risks, internal controls and compliance.
- Overseeing the governance of independent valuation controls pertaining to RBCEL's financial statements.
- Reviewing quarterly reports from external and internal auditors.
- Monitoring performance of the internal audit function.

UK Human Resources Committee

The UK Human Resources Committee (HRC) is responsible for ensuring that RBC's compensation programme aligns with prudent risk management principles, regulatory guidance and sound compensation practices. RBCEL has an established process in place to assist the HRC in the determination of whether any performance adjustment to compensation are required. The HRC is chaired by an INED. Main responsibilities include:

- Review and approve the remuneration of Senior Managers (under the Senior Managers Regime) and Executive Directors ('Designated Employees').
- Review the remuneration of Material Risk Takers.
- Review incentive remuneration plans and equity-based remuneration plans.
- Review RBC Group Remuneration and Compensation policies.

- Review performance measures to be used to determine the remuneration of Designated Employees.
- Review management succession plans for the Executive Directors and senior officers of RBCEL.
- Review the output from the annual talent management process for the key staff in RBCEL.

Nomination Committee

The RBCEL Nominations Committee (Nomco) is chaired by an INED. It is a sub-committee of the Board established to lead the process for Independent Non-Executive Director succession planning and appointments to the RBCEL Board and its sub-Committees. The Committee is responsible for amongst other things, the identification, nomination and recommendation of INED candidates for appointment to the Board and its Committees. Main responsibilities include:

- Review the structure, size, and composition (including the skills, knowledge, experience, diversity and independence) of the Board and its Committees, and make recommendations to the Board with regard to any changes taking into account any legislative and/or regulatory requirements.
- Give full consideration to succession planning for INEDs, taking into account local regulatory requirements and corporate governance best practice, and the skills and expertise needed on the Board in the future.
- Be responsible for identifying and nominating, for the approval of the Board, suitable INED candidates to fill vacancies as and when they arise.

Assets & Liability Committee (ALCO)

The ALCO is a key management committee of RBC Europe Limited (RBCEL), RBC London Branch (RBCLB), RBC Paris Branch (RBCPB), RBC Investor Services Trust London Branch (RBCISTLB), and RBC Capital Markets (Europe) GmbH (RBCEG) responsible for the oversight and monitoring of the financial resources including the management of balance sheet, capital position, funding & liquidity and structural interest rate risk in the banking book. ALCO is comprised of senior management from the Business, Risk, Finance, and Corporate Treasury functions, and meet on a monthly basis. Main responsibilities include:

- Review and monitor of current and projected positions relative to regulatory, Board, and management limits.
- Ensuring business and operational strategies are consistent with appetite, in the context of capital, balance sheet, liquidity and funding.
- Oversee and monitor major projects relevant to ALCO.
- Review regulatory developments and assess their relevance and impact on the business profile and strategy.

Enterprise Risk Management UK Steering Committee

The Enterprise Risk Management UK Steering Committee (ERMUKSC) is a key management forum to review and provide a positive recommendation to the UK Risk Committee and the Board on Enterprise Risk Management (ERM) related deliverables including ICAAP, Recovery and Resolution Planning (RRP), Risk Appetite and any ad-hoc regulator queries. The ERMUKSC is chaired by the Managing Director, Enterprise Risk Management UK, and meets at least once every quarter – or more frequently to facilitate larger deliverables. The committee's main responsibilities include:

- Review and agree the approaches and methodologies to be incorporated within the ICAAP and RRP, to act as the subject matter experts for these deliverables and to create a Governance Forum to track progress against key milestones and issues;
- Review and, where applicable, propose amendments to policy documents governing the overall ICAAP, RRP and / or its constituent parts (e.g. Capital Management Framework and Stress Testing Policy).
- Provide advice, guidance and support to the Enterprise Risk Management, UK team in performing its ICAAP and RRP related duties.
- Review and discuss impact of any strategic and other changes on the RBCEL ICAAP and RRP. This should include assessing the impact of any regulatory changes.
- Make proposals to the RC on stress testing scenarios and related matters.
- Recommend the ICAAP and RRP report to the RC and RBCEL Board for review, challenge and approval at periodic intervals (currently 12 months).
- Review Recovery Planning scenarios and Recovery options.
- Review and propose changes to the Risk Appetite limits.
- Review and propose amendments to the Risk Frameworks for approval by the Risk Committee
- Review regular management information in the form of trend against Risk Appetite
- Review any responses drafted for any ad-hoc Regulator queries

2.2 RISK MANAGEMENT

RBCEL defines risk as the potential for loss or an undesirable outcome affecting the value of RBCEL's business with respect to volatility of actual earnings in relation to expected earnings, capital adequacy, and liquidity. This definition includes both risks that have a direct and immediate impact (e.g. Credit risk due to a loan default), and risks that have an indirect or longer term impact (e.g. regulatory and reputational risks due to the possible failure to comply with regulatory guidelines or the failure to live up to clients' expectations).

The risk of financial and non-financial loss through business activities is inherent in all of the businesses conducted by RBCEL. For this reason, risk management is considered to be an intrinsic part of the strategy and capital planning processes.

2.2.1 Risk Management Framework

The RBCEL Enterprise Risk Management Framework (ERMF) sets out the overarching arrangements for risk management, control and assurance within RBCEL. The ERMF is designed to provide a consistent and structured approach to identify, assess, measure, control, monitor and report on significant risks.

The ERMF helps to ensure that risk is managed and controlled on behalf of internal and external stakeholders, including shareholders, customers, employees and regulators. Effective and efficient risk governance and oversight provide Management with assurance that RBCEL's business activities will not be excessively impacted by risks that could have been reasonably foreseen. This, in turn, reduces the uncertainty of achieving RBCEL's strategic objectives.

RBCEL respects and complies with laws and regulations that govern its businesses in the jurisdictions in which it operates. The ERMF recognises that RBCEL is required to comply with a range of external risk governance requirements, including but not limited to:

- Prudential Regulatory Authority (PRA) rules;
- Financial Conduct Authority (FCA) rules; and
- Office of the Superintendent of Financial Institutions (OSFI) requirements as a subsidiary of a Canadian banking group.

2.2.2 Risk Principles

The Company applies the following general principles for its management of risk:

Table 2: Risk Management Principles

Principle	Description
Effectively balance risk and reward to enable sustainable growth.	RBCEL balances risk and reward to capitalize on opportunities within our business strategy and risk appetite, avoid excessive concentrations of risk through diversification and risk transfer, manage earning volatility, and ensure the long-term viability and profitability of the organization.
Collectively share the responsibility for risk management	Following the Three Lines of Defence risk governance model, employees at all levels of the organization, as one RBC, are responsible for managing the day-to-day risks that arise in the context of their roles.
Undertake only risks we understand. Make thoughtful and future-focused risk decisions	To create long term value for our shareholders, clients, employees and communities, we exercise rigour in our risk assessments, analyse emerging risk factors and trends, ensure transparency in risk discussions, and improve processes and tools for simpler, better, faster decision-making without exposing us to undue risks.

Always uphold our Purpose and Vision, and consistently abide by our Values and Code of Conduct to maintain our reputation and the trust of our clients, colleagues and communities	Guided by our Collective Ambition, we exhibit good conduct and do business openly and fairly. We never compromise quality or integrity for growth. We adhere to the “Know Your Client” standards, and ensure transparency and suitability of the products and services offered. We comply with all laws and regulatory requirements, and support transactions and relationships with proper and complete documentation.
Maintain a healthy and robust control environment to protect our stakeholders	To achieve our operational and financial performance goals while maintaining our reputation and integrity, and operating within the parameters of applicable laws and established risk appetite, we employ effective processes and controls and resiliency practices to minimize harm from internal and external threats, avoid business interruptions, and ensure timely resolution of control issues.
Use judgment and common sense	Policies and procedures cannot cover all circumstances. Employees should apply judgment and common sense, and when in doubt, escalate. Management should hire the right people for the right jobs and provide proper training and support.
Always be operationally prepared and financially resilient for a potential crisis	RBC strives to maintain effective protocols and escalation strategies to respond to all risks that we face, including regulatory, macroeconomic, market and other stakeholder developments. This includes maintaining operational readiness and financial resilience to effectively operate during and following a financial crisis. It is also critical to maintain agility and readiness to respond to potential disruptors to the financial industry.

2.2.3 Three Lines of Defence Model

RBCEL has implemented a robust system of monitoring, reporting and control based on the Three Lines of Defence model. This details responsibility for risk management, control and assurance, and clarifies the segregation of duties between those who take on risk, those who control risk and those who provide assurance.

First Line of Defence - This is provided by the business and support functions embedded in the business. The First Line of Defence has the ownership and accountability for:

- Risk identification, assessment, mitigation, monitoring and reporting in accordance with RBCEL’s approved Risk Appetite and Risk Policies;
- Ensuring appropriate and adequate capabilities to manage risks relevant to the business;
- Alignment of business and operational strategies with risk conduct and culture and risk appetite; and
- Execution of Business and Corporate Segments’ Risk Governance practices.

Second Line of Defence - This is provided by areas with independent oversight accountabilities residing in functions such as GRM, Group Compliance, and other areas within Control and Group Functions. The Second Line of Defence is accountable for:

- Establishing RBCEL’s risk management frameworks and providing risk guidance;
- Providing oversight for the effectiveness of First Line risk management practices; and
- Monitoring and independently reporting on the level of risk against the established appetite measures and associated constraints.

Third Line of Defence - This is provided through Internal Audit Services and the Audit Committee. The Third Line provides independent objective assurance on the effectiveness of risk management policies, processes and practices in all areas of RBCEL to senior management and the Board of Directors. Further assurance is provided by the firm’s external auditor, PricewaterhouseCoopers LLP, in the form of a quarterly report to the Audit Committee.

2.2.4 Risk Identification

RBCEL has a comprehensive system of identifying, monitoring, reporting and control based on the three lines of defence model. This details responsibility for risk management, control and assurance, and clarifies the segregation of duties between those who take on risk, those who control risk and those who provide assurance.

The process of Risk Identification and assessment is intrinsic within RBCEL's pursuit of approved business strategies, and as part of the risk oversight responsibilities undertaken by the support functions outlined in this document. Risk Identification is embedded within a wide range of activities, including but not limited to:

- The approval of new products, transactions, client relationships, projects or initiatives;
- Business strategy development;
- ICAAP, Stress Testing and Recovery Planning;
- Risk Appetite formulation
- Monitoring and Reporting
- Ongoing assessment of Industry and Regulatory Developments

RBCEL's risk assessment, identification, monitoring and escalation processes are continuously advancing in response to the environment in which it operates and the consequent risks to which it is exposed.

2.2.5 Risk Policy Management

RBCEL has implemented RBC policies and processes in the context of the RBCEL Risk Policy Management Requirements to support the assessment and management of risks. RBCEL regularly reviews policies and controls to ensure continued effectiveness and alignment with relevant laws and regulations. To ensure operation with integrity, RBCEL adheres to a number of other principles, codes and policies, including the RBC Code of Conduct which governs the behaviour of RBCEL employees and informs how RBCEL conducts its business operations.

Where necessary, RBCEL adopts the Enterprise policies to ensure compliance with local legal and regulatory requirements and expectations. The CRO Europe has the responsibility of ensuring these policies are consistent with:

- Regulatory requirements;
- Relevant RBC policies; and
- Higher and lower level policy documents within the risk policy architecture.

The RBCEL Risk Policy Management Requirements document adopts the following three-tier hierarchy for approving risk frameworks, policies, standing orders, standards and procedures (collectively referred to as policy documents):

- **Level 1:** overarching Risk Frameworks and policies that outline regulatory requirements and risk governance for RBCEL. These are approved by the RC (Board Committee) or ALCO (Management Committee);
- **Level 2:** includes risk-specific frameworks and policies that lay the foundations for how each risk (and any sub-risk) is managed. These are approved by Management Committees;
- **Level 3:** includes those policy documents that are put in place to support Level 2 policy documents. These are approved by either Management Committees or Heads of Risk.

The Board of Directors delegates responsibility to the RC to ensure that all Level 1 RBCEL risk and capital policies meet the minimum governance standards defined within the RBCEL Risk Policy Management Requirements. RBCEL's Frameworks and policies (including the Risk Management Framework) are reviewed and refreshed regularly, and approved by the Risk Committee. RBCEL's Risk Frameworks were last approved by the Risk Committee on 16th June 2021.

2.2.6 Risk Appetite

RBCEL's Risk Appetite is defined as the amount and type of risk that the Firm is able and willing to accept in the pursuit of its business objectives.

The overall objective of the RBCEL Risk Appetite Framework is to protect RBCEL from unacceptable levels of risk while supporting and enabling the firm's overall business strategy and goals. The Framework is defined in the context of the RBC Enterprise Risk Appetite Framework and has been customised to cater to local requirements. It provides details on RBCEL risk appetite principles and is reviewed and approved at least annually by the Board.

A comprehensive monthly risk appetite scorecard is disseminated to the Senior Risk Management leadership team which shows the monthly trend against the Board Approved Risk Appetite.

2.2.7 Capital Planning

The Company undertakes an annual Internal Capital Adequacy Assessment Process (ICAAP) to ensure that the business strategy and planning translate into adequate capital levels over internal and external capital minima, and identifies period where capital buffers become tight so corrective action can be undertaken in advance. This also includes reviewing the capital levels against risk appetite to ensure that the business strategy and planned capital levels remain in line with the Company's risk appetite.

The capital plan is derived from the Company's base case business plan and takes into account changes to business forecasts, market conditions and other developments, such as accounting or regulatory changes that may impact the capital adequacy of RBCEL over the planning period. The ICAAP also considers the impact on RBCEL's Leverage position as at 31st October 2021 and over the planning period.

The base case capital plan also forms the basis for stress testing analysis. Stressing the capital plans, enables the Company to test the strength of its capital base and also to consider mitigating actions in advance in order to maintain overall capital adequacy in periods of stress.

The capital plan is updated on a periodic basis to reflect actual operating results, updated Profit and Loss forecasts and any changes in business strategies. If there is a significant change to the business plan, then a revised capital plan will also be produced.

The ICAAP is an annual process managed by the Enterprise Risk Management (ERM), UK function within Group Risk Management (GRM).

3 OWN FUNDS

3.1 OVERVIEW OF OWN FUNDS

As at 31 October 2021, the Company had total own funds of £1,721 million (2020: £1,643 million), which comprises of Tier 1 Capital of £1,649 million (2020: £1,566 million) and Tier 2 Capital of £73 million (2020: £77 million) under the transitional provisions. A full reconciliation of own funds items to audited financial statements are shown in the table below.

Table 3: Full reconciliation of own funds items to audited financial statements

Per Audited Statement of changes in equity	31 October 2021
£'000	
Common shares	497,996
Other components of equity:	
<i>Capital reserves</i>	36,619
<i>Share premium</i>	803
<i>Remeasurement of pension assets and liabilities</i>	12,156
<i>Fair Value through Other Comprehensive Income reserve</i>	48,816
<i>AT1 equity issuance</i>	299,694
Total other components of equity	398,089
Retained earnings	
<i>Opening</i>	688,971
<i>Dividend on other Equities</i>	(7,878)
<i>Net profit</i>	103,702
Retained earnings at 31 October 2021	784,795
Total equity	1,680,880
Adjustments to CET1 due to prudential filters	
<i>Value adjustments due to the requirements for prudent valuation</i>	(12,712)
Transitional adjustments due to IFRS9	634
Deductions of CET1 Capital	0
<i>Other intangible assets</i>	0
<i>Deferred tax liabilities associated to other intangible assets</i>	0
<i>Deferred tax assets that rely on future profitability and do not arise from temporary differences net of associated tax liabilities</i>	0
<i>Defined benefit pension assets</i>	(26,364)
<i>Deferred tax liabilities associated to defined benefit pension assets</i>	6,091
<i>Deduction of holdings Common Equity Tier 1 instruments where an institution does not have a significant investment in a financial sector entity</i>	0
Total CET1 deductions	(20,273)
Total Fully Loaded Tier 1 Capital	1,648,528
Tier 2 Capital	
Subordinated loans	72,950
Collective provision gross of tax	0
<i>Deduction of holdings Tier 2 instruments where an institution does not have a significant investment in a financial sector entity</i>	0
Total Tier 2 deductions	0
Total Fully Loaded Tier 2 Capital	72,950
Fully Loaded Own Funds	1,721,478

Table 4: Own funds disclosure

Common Equity Tier 1 capital: instruments and reserves	31 October 2021 £'000	Prescribed residual amount	Final CRD IV
Capital instruments and the related share premium accounts	498,799	-	498,799
of which: Common shares	497,996	-	497,996
Retained earnings	784,795	-	784,795
Accumulated other comprehensive income (and any other reserves)	97,592	-	97,592
Common Equity Tier 1 (CET1) capital before regulatory adjustments	1,381,186	-	1,381,186
Common Equity Tier 1 (CET1) capital: regulatory adjustments			
Additional value adjustments	(12,712)	-	(12,712)
Goodwill and Other intangible assets (net of related tax liability)	-	-	-
Defined-benefit pension fund assets (net of related tax liability)	(20,273)	-	(20,273)
Direct, indirect and synthetic holdings of the CET1 instruments of financial sector entities where the institution does not have a significant investment in those entities (amount above 10% threshold and net of eligible short positions) (negative amount)	-	-	-
Transitional adjustments due to IFRS9	634	(634)	-
Total regulatory adjustments to Common Equity Tier 1 (CET1)	(32,352)	(634)	(32,986)
Common Equity Tier 1 (CET1) capital	1,348,834	(634)	1,348,200
Additional Tier 1 (AT1) capital	299,694	-	299,694
Tier 1 capital (T1 = CET1 + AT1)	1,648,528	(634)	1,647,894
Tier 2 (T2) capital: instruments and provisions			
Subordinated loans	72,950	-	72,950
Credit risk adjustments	-	-	-
Tier 2 (T2) capital before regulatory adjustment	72,950	-	72,950
Tier 2 (T2) capital	72,950	-	72,950
Total capital (TC = T1 + T2)	1,721,478	(634)	1,720,844
Total risk-weighted exposures	8,960,924		
Capital ratios and buffers			
Common Equity Tier 1 ratio	15.1%		
Tier 1 ratio	18.4%		
Total capital ratio	19.2%		
Institution specific buffer requirement	227,326		
of which: capital conservation buffer requirement	224,023		
of which: countercyclical buffer requirement	3,303		
Common Equity Tier 1 available to meet buffers (as a percentage of risk exposure amount)	10.6%		
Amounts below the thresholds for deduction (before risk-weighting)			
Direct and indirect holdings of the capital of financial sector entities where the institution does not have a significant investment in those entities (amount below 10% threshold and net of eligible short positions)	-		
Direct and indirect holdings of the CET1 instruments of financial sector entities where the institution has a significant investment in those entities (amount below 10% threshold and net of eligible short positions)	-		
Deferred tax assets arising from temporary difference	-		
Applicable caps on the inclusion of provisions in Tier 2			
Credit risk adjustments included in T2 in respect of exposures subject to standardised approach (prior to the application of the cap)	-		
Cap on inclusion of credit risk adjustments in T2 under standardised approach	-		
Credit risk adjustments included in T2 in respect of exposures subject to internal rating-based approach (prior to the application of the cap)	-		
Cap for inclusion of credit risk adjustments in T2 under internal ratings-based approach	-		
Capital instruments subject to phase-out arrangements (applicable between 1 Jan 2014 and 1 Jan 2022)			
- Current cap on CET1 instruments subject to phase-out arrangements	-		
- Amount excluded from CET1 due to cap (excess over cap after redemptions and maturities)	-		
- Current cap on AT1 instruments subject to phase-out arrangements	-		
- Amount excluded from AT1 due to cap (excess over cap after redemptions and maturities)	-		
- Current cap on T2 instruments subject to phase-out arrangements	-		
- Amount excluded from T2 due to cap (excess over cap after redemptions and maturities)	-		

Table 5: Transitional arrangements for IFRS9

	31 October 2021
	£'000
Available capital (amounts)	
Common Equity Tier 1 (CET1) capital	1,348,834
Common Equity Tier 1 (CET1) capital as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	1,348,200
Tier 1 capital	1,648,528
Tier 1 capital as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	1,647,894
Total capital	1,721,478
Total capital as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	1,720,844
Risk-weighted assets (amounts)	
Total risk-weighted assets	8,960,924
Total risk-weighted assets as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	8,972,924
Capital ratios	
Common Equity Tier 1 (as a percentage of risk exposure amount)	15.1%
Common Equity Tier 1 (as a percentage of risk exposure amount) as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	15.1%
Tier 1 (as a percentage of risk exposure amount)	18.5%
Tier 1 (as a percentage of risk exposure amount) as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	18.5%
Total capital (as a percentage of risk exposure amount)	19.3%
Total capital (as a percentage of risk exposure amount) as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	19.3%
Leverage ratio	
Leverage ratio total exposure measure	46,924,653
Leverage ratio	3.51%
Leverage ratio as if IFRS 9 or analogous ECLs transitional arrangements had not been applied	3.51%

Table 6: Capital instruments main features table

As at 31 October 2021

Capital instruments' main features template ⁽¹⁾	Common shares	Common shares	Subordinated loan due 2031	Subordinated Perpetual Contingent Conversion Securities	Subordinated Perpetual Contingent Conversion Securities	Subordinated Perpetual Contingent Conversion Securities
Issuer	RBC Europe Limited	RBC Europe Limited	RBC Europe Limited	RBC Europe Limited	RBC Europe Limited	RBC Europe Limited
Unique identifier (e.g. CUSIP, ISIN or Bloomberg identifier for private placement)	N/A	N/A	N/A	N/A	N/A	N/A
Governing law(s) of the instrument	English	English	English	English	English	English
<i>Regulatory treatment</i>						
Transitional CRR rules	Common Equity Tier 1	Common Equity Tier 1	Tier 2	Additional Tier 1 Capital	Additional Tier 1 Capital	Additional Tier 1 Capital
Post-transitional CRR rules	Common Equity Tier 1	Common Equity Tier 1	Tier 2	Additional Tier 1 Capital	Additional Tier 1 Capital	Additional Tier 1 Capital
Eligible at solo/(sub-)consolidated/solo & (sub-)consolidated	Solo	Solo	Solo	Solo	Solo	Solo
Instrument type (types to be specified by each jurisdiction)	Common Equity Tier 1 as published in Regulation (EU) No 575/2013 Article 28	Common Equity Tier 1 as published in Regulation (EU) No 575/2013 Article 28	Tier 2 as published in Regulation (EU) No 575/2013 Article 63	Additional Tier 1 Equity as published in Regulation (EU) No 575/2013 Article 52	Additional Tier 1 Equity as published in Regulation (EU) No 575/2013 Article 52	Additional Tier 1 Equity as published in Regulation (EU) No 575/2013 Article 52
Amount recognised in regulatory capital (currency in million, as of most recent reporting date)	GBP 21m	GBP 477m	GBP 73m	GBP 71.7m	GBP 70.3m	GBP 157.7m
Nominal amount of instrument	GBP 25m	GBP 477m	USD 100m	USD 100m	USD 100m	USD 200m
Issue price	84 per cent	100 per cent	100 per cent	100 per cent	100 per cent	100 per cent
Redemption price	100 per cent of Nominal amount	100 per cent of Nominal amount	100 per cent of Nominal amount	100 per cent of Nominal amount	100 per cent of Nominal amount	100 per cent of Nominal amount
Accounting classification	Equity	Equity	Liability - amortised cost	Equity	Equity	Equity
Original date of issuance	20 December 1970	20 December 1970	28 May 2021	26 February 2018	18 April 2018	28 May 2019
Perpetual or dated	Perpetual	Perpetual	Dated	Perpetual	Perpetual	Perpetual
Original maturity date	No maturity	No maturity	28 May 2031	No maturity	No maturity	No maturity
Issuer call subject to prior supervisory approval	No	No	Yes	Yes	Yes	Yes
Optional call date, contingent call dates, and redemption amount	N/A	N/A	Redemption at the Option of the Issuer 100 per cent of Nominal amount First call date: 28/May/2026 In addition Tax/Regulatory call	Redemption at the Option of the Issuer 100 per cent of Nominal amount First call date: 26/Feb/2023 In addition Tax/Regulatory call	Redemption at the Option of the Issuer 100 per cent of Nominal amount First call date: 18/Apr/2023 In addition Tax/Regulatory call	Redemption at the Option of the Issuer 100 per cent of Nominal amount First call date: 28/May/2024 In addition Tax/Regulatory call
Subsequent call dates, if applicable	N/A	N/A	N/A	Subsequent Interest Payment Dates	Subsequent Interest Payment Dates	Subsequent Interest Payment Dates
<i>Coupons / dividends</i>						
Fixed or floating dividend/coupon	N/A	N/A	Floating	Floating	Floating	Floating
Coupon rate and any related index	N/A	N/A	Reuters page LIBOR01 +1.45 per cent per annum	Reuters page LIBOR01 +3.4 per cent per annum	Reuters page LIBOR01 +4.0 per cent per annum	Reuters page LIBOR01 +4.75 per cent per annum
Existence of a dividend stopper	N/A	N/A	No	No	No	No
Fully discretionary, partially discretionary or mandatory (in terms of timing)	Fully discretionary	Fully discretionary	Mandatory	Fully discretionary	Fully discretionary	Fully discretionary
Fully discretionary, partially discretionary or mandatory (in terms of amount)	Fully discretionary	Fully discretionary	Mandatory	Fully discretionary	Fully discretionary	Fully discretionary
Existence of step up or other incentive to redeem	No	No	No	No	No	No
Noncumulative or cumulative	Non cumulative	Non cumulative	Non cumulative	Non cumulative	Non cumulative	Non cumulative
Convertible or non-convertible	Non-convertible	Non-convertible	Non-convertible	Convertible	Convertible	Convertible
If convertible, conversion trigger (s)	N/A	N/A	N/A	Common Equity Tier 1 Capital Ratio falls below 7.00 per cent	Common Equity Tier 1 Capital Ratio falls below 7.00 per cent	Common Equity Tier 1 Capital Ratio falls below 7.00 per cent
If convertible, fully or partially	N/A	N/A	N/A	Fully convertible	Fully convertible	Fully convertible
If convertible, conversion rate	N/A	N/A	N/A	GBP equivalent of Security Principal multiplied by 2.12, in Ordinary Shares	GBP equivalent of Security Principal multiplied by 2.12, in Ordinary Shares	GBP equivalent of Security Principal multiplied by 2.62, in Ordinary Shares
If convertible, mandatory or optional conversion	N/A	N/A	N/A	Mandatory Conversion	Mandatory Conversion	Mandatory Conversion
If convertible, specify instrument type convertible into	N/A	N/A	N/A	Ordinary Share	Ordinary Share	Ordinary Share
If convertible, specify issuer of instrument it converts into	N/A	N/A	N/A	RBC Europe Limited	RBC Europe Limited	RBC Europe Limited
Write-down features	No	No	Yes	No	No	No
If write-down, write-down trigger (s)	N/A	N/A	N/A	N/A	N/A	N/A
If write-down, full or partial	N/A	N/A	N/A	N/A	N/A	N/A
If write-down, permanent or temporary	N/A	N/A	N/A	N/A	N/A	N/A
If temporary write-down, description of write-up mechanism	N/A	N/A	N/A	N/A	N/A	N/A
Position in subordination hierarchy in liquidation (specify instrument type immediately senior to instrument)	N/A	N/A	N/A	N/A	N/A	N/A
Non-compliant transitioned features	No	No	No	No	No	No
If yes, specify non-compliant features	N/A	N/A	N/A	N/A	N/A	N/A

(1) 'N/A' inserted if the question is not applicable

3.2 COUNTERCYCLICAL CAPITAL BUFFER

The UK implementation of CRD IV requires institutions to maintain an institution-specific countercyclical capital buffer based on regulatory determined buffer rates. This requirement follows closely the international approach of Basel III which introduced the countercyclical capital buffer to be implemented by national jurisdictions when excess aggregate credit growth is judged to be associated with a build-up of system-wide risk in each country the Company is exposed to.

As at 31 October 2021, the Company's specific countercyclical capital buffer rate is 0.0369% (2020: 0.0230%) and the capital requirement is £3.3 million (2020: £1.8 million). The increase in the requirement is largely due to an increase in the Luxembourg countercyclical buffer rate to 0.5% (2020: 0%).

Detailed disclosure on the geographical distribution of credit exposure and the Company's specific countercyclical buffer requirements is included in Appendix 2.

3.3 UNENCUMBERED ASSETS

The connected templates have been prepared on a rolling quarterly median basis over the previous 12 months in accordance with the European Commission Delegated Regulation (EU) 2017/2295. Each quarter is calculated as a median of the previous 12 months' four quarterly returns to the European Banking Authority and then a median of all 4 quarters is taken for disclosure. Each value and total on the disclosure has been derived in the same manner; totals are not a total of the rolling median values.

The Company defines the following assets as encumbered:

- Assets which have been pledged as collateral; or
- Assets which the Company believes it was restricted from using to secure funding, for legal or other reasons.

Asset encumbrance is an integral part of RBC Europe Limited's liquidity, funding and collateral management processes. The majority of the Company's encumbrance is driven by secured financing activities, predominantly transactions in collateral swaps and repo. This also includes shorts facilitation as part of its trading activities. These activities are carried out under industry standard contractual agreements (mostly Global Master Repurchase Agreements (GMRA's)). Where securities are borrowed or lent between the Company and RBC Group companies, this is done with arm's length terms.

The level of over-collateralisation is dependent on specific trade details. The Company's ratio of encumbered assets is relatively stable with a high turnover of assets available for encumbrance. Encumbrance will vary depending on the composition of the balance sheet, and there are no notable trends during the disclosure period.

A significant proportion of the assets included in other unencumbered assets of £41.0bn (2020: £42.0bn) relates to reverse repurchase transactions and the Company has rehypothecation rights over the underlying security collateral. The remainder comprises of derivative related assets and receivables that are not deemed to be available for encumbrance in the normal course of RBC Europe Limited's business.

Table 7: Encumbered and unencumbered assets

As at 31 October 2021

Template A - Encumbered and unencumbered assets

	Carrying amount of encumbered assets		Fair value of encumbered assets		Carrying amount of unencumbered assets		Fair value of unencumbered assets	
		of which notionally eligible EHQLA and HQLA		of which notionally eligible EHQLA and HQLA		of which EHQLA and HQLA		of which EHQLA and HQLA
010 Assets of the reporting institution	3,289,541,663	1,694,332,622			45,509,702,596	3,321,467,621		
030 Equity instruments	52,045,066	45,652,536			83,034,211	0		
040 Debt securities	2,495,942,157	1,629,162,979	2,495,942,157	1,629,162,979	4,359,827,579	0	4,359,827,579	0
050 of which: covered bonds	78,778,915	76,531,809	78,778,915	76,531,809	2,544,575	0	2,544,575	0
060 of which: asset-backed securities	0	0	0	0	1,042,812	0	1,042,812	0
070 of which: issued by general governments	950,593,117	864,961,713	950,593,117	864,961,713	552,905,103	0	552,905,103	0
080 of which: issued by financial corporations	657,403,659	220,154,700	657,403,659	220,154,700	0	0	0	0
090 of which: issued by non-financial corporations	788,189,264	397,453,562	788,189,264	397,453,562	3,705,358,950	0	3,705,358,950	0
120 Other assets	748,027,136	0			40,917,119,968	3,321,467,621		
121 of which: Loans on demand	55,370,523	0			3,104,561,163	3,104,561,163		
122 of which: Loans and advances other than loans on demand	0	0			7,008,180,674	2,108,699,794		

Template B- Collateral received

		Fair value of encumbered collateral received or own debt securities issued		Unencumbered	
				Fair value of collateral received or own debt securities issued available for encumbrance	
			of which notionally eligible EHQLA and HQLA		of which EHQLA and HQLA
130	Collateral received by the reporting institution	42,624,263,504	33,558,780,277	3,725,500,608	2,807,249,848
150	Equity instruments	5,307,916,573	2,622,304,734	52,045,086	45,652,538
160	Debt securities	37,322,110,266	30,939,620,066	3,538,078,727	2,713,309,904
170	of which: covered bonds	1,408,085	1,408,085	78,778,915	76,531,609
180	of which: asset-backed securities	257,541,159	0	2,554,777	0
190	of which: issued by general governments	29,777,361,206	29,763,971,425	1,971,641,615	1,968,580,199
200	of which: issued by financial corporations	1,847,486,105	557,053,689	657,403,659	220,154,700
210	of which: issued by non-financial corporations	5,446,107,864	605,493,499	788,189,264	397,453,562
250	Total assets, collateral received and own debt securities issued	45,766,739,133	35,176,819,891		

Template C- Sources of encumbrance

		Matching liabilities, contingent liabilities or securities lent	Assets, collateral received and own debt securities issued other than covered bonds and ABSs encumbered
010	Carrying amount of selected financial liabilities	22,710,820,077	22,763,684,379
011	of which: Derivatives	695,162,833	695,162,833
012	of which: Repurchase agreements	22,057,319,572	22,110,183,875
	Other sources of encumbrance	23,635,805,955	23,635,805,955

The above information is prepared using median values of monthly data on a rolling basis over the previous twelve months as expected by PRA.

3.4 LEVERAGE RATIO

Leverage ratio is monitored daily and is reported to the ALCO on a monthly basis as one of its risk appetite metrics. Internal threshold for each business line is established in accordance with the Company's risk appetite as approved by the Company's Board. UK Regulatory Reporting team (UKRRT) monitors the leverage usage against the internal threshold on a daily basis. As at 31 October 2021, the Company's leverage ratio is 3.51% (2020: 3.51%).

Table 8: Leverage ratio disclosure

As at 31 October 2021

	£'000
Summary reconciliation of accounting assets and leverage ratio exposures	
	Applicable Amounts
Total assets as per published financial statements	49,173,176
Adjustment for entities which are consolidated for accounting purposes but are outside the scope of regulatory consolidation	-
(Adjustment for fiduciary assets recognised on the balance sheet pursuant to the applicable accounting framework but excluded from the leverage ratio exposure measure in accordance with Article 429(13) of Regulation (EU) No 575/2013 "CRR")	-
Adjustments for derivative financial instruments	9,979
Adjustments for securities financing transactions "SFTs"	583,269
Adjustment for off-balance sheet items (ie conversion to credit equivalent amounts of off-balance sheet exposures)	1,176,006
(Adjustment for intragroup exposures excluded from the leverage ratio exposure measure in accordance with Article 429 (7) of Regulation (EU) No 575/2013)	-
(Adjustment for exposures excluded from the leverage ratio exposure measure in accordance with Article 429 (14) of Regulation (EU) No 575/2013)	-
Other adjustments	(4,017,776)
Total leverage ratio exposure	46,924,653
Leverage ratio common disclosure	
	CRR leverage ratio exposures
On-balance sheet exposures (excluding derivatives and SFTs)	
On-balance sheet items (excluding derivatives, SFTs and fiduciary assets, but including collateral)	19,997,835
(Asset amounts deducted in determining Tier 1 capital)	(32,986)
Total on-balance sheet exposures (excluding derivatives, SFTs and fiduciary assets)	19,964,849
Derivative exposures	
Replacement cost associated with <i>all</i> derivatives transactions (ie net of eligible cash variation margin)	664,995
Add-on amounts for PFE associated with <i>all</i> derivatives transactions (mark-to-market method)	861,008
Exposure determined under Original Exposure Method	-
Gross-up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the applicable accounting framework	-
(Deductions of receivables assets for cash variation margin provided in derivatives transactions)	-
(Exempted CCP leg of client-cleared trade exposures)	-
Adjusted effective notional amount of written credit derivatives	105,513
(Adjusted effective notional offsets and add-on deductions for written credit derivatives)	(97,072)
Total derivative exposures	1,534,445
Securities financing transaction exposures	
Gross SFT assets (with no recognition of netting), after adjusting for sales accounting transactions	36,509,744
(Netted amounts of cash payables and cash receivables of gross SFT assets)	(12,843,660)
Counterparty credit risk exposure for SFT assets	583,269
Derogation for SFTs: Counterparty credit risk exposure in accordance with Article 429b (4) and 222 of Regulation (EU) No 575/2013	-
Agent transaction exposures	-
(Exempted CCP leg of client-cleared SFT exposure)	-
Total securities financing transaction exposures	24,249,353
Other off-balance sheet exposures	
Off-balance sheet exposures at gross notional amount	2,302,322
(Adjustments for conversion to credit equivalent amounts)	(1,126,316)
Total other off-balance sheet exposures	1,176,006
Exempted exposures in accordance with CRR Article 429 (7) and (14) (on and off balance sheet)	
(Exemption of intragroup exposures (solo basis) in accordance with Article 429(7) of Regulation (EU) No 575/2013 (on and off balance sheet))	-
(Exposures exempted in accordance with Article 429 (14) of Regulation (EU) No 575/2013 (on and off balance sheet))	-
Capital and total exposures	
Tier 1 capital	1,648,528
Total leverage ratio exposures	46,924,653
Leverage ratio	3.51%
Choice on transitional arrangements and amount of derecognised fiduciary items	
Choice on transitional arrangements for the definition of the capital measure	-
Amount of derecognised fiduciary items in accordance with Article 429(11) of Regulation (EU) NO 575/2013	-

4 CAPITAL REQUIREMENTS

Capital adequacy and capital ratios measured are monitored daily against internal thresholds by the UK Regulatory Reporting team (UKRRT) in the Finance department. Any breaches would be escalated immediately. In addition ALCO receives monthly reports detailing capital requirements, while the Board and the RC are updated on a quarterly basis.

Analysis, monitoring and reporting of risk profiles and performance against risk appetite limits and tolerances are conducted by the relevant risk functions. Results are reported to the RC at least quarterly, with management committees updated on a more regular basis.

As at 31st October 2021 the Company's minimum capital requirements are illustrated below, expressed in terms of risk-weighted exposure, as calculated by the approaches adopted by the Company to calculate the minimum capital resources requirements. Exposure classes not mentioned below were immaterial and are not shown separately.

Table 9: Risk exposure amount by risk type and calculation approach adopted

As at 31 October 2021	Risk-weighted Exposure	CET1 Capital requirement @ 4.5%	Tier 1 Capital requirement @ 6%	Total Capital requirement @8%
<i>£'000</i>				
Risk-weighted exposure amounts for credit and counterparty credit				
<i>Calculated under the Standardised Approach</i>				
Central governments or central banks	26,772	1,205	1,606	2,142
Regional governments or local authorities	9,523	429	571	762
Public sector entities	2,325	105	140	186
Multilateral Development Banks	-	-	-	-
Institutions	656,854	29,558	39,411	52,548
Corporates	3,902,767	175,625	234,166	312,221
Secured by mortgages on immovable property	225,517	10,148	13,531	18,041
Equity	63,562	2,860	3,814	5,085
Other items	9,554	430	573	764
	<u>4,896,874</u>	<u>220,359</u>	<u>293,812</u>	<u>391,750</u>
Risk exposure amount for contributions to the default fund of a CCP	45,928	2,067	2,756	3,674
	<u>4,942,803</u>	<u>222,426</u>	<u>296,568</u>	<u>395,424</u>
Risk-weighted exposure amount settlement/delivery risk in the Trading book	2,830	127	170	226
Risk-weighted exposure amount for position, foreign exchange and commodities risks				
<i>Calculated under the Standardised Approach</i>				
Interest Rate	2,906,369	130,787	174,382	232,510
Equity	85,079	3,829	5,105	6,806
Foreign Exchange	120,600	5,427	7,236	9,648
Commodities	18,288	823	1,097	1,463
	<u>3,130,336</u>	<u>140,865</u>	<u>187,820</u>	<u>250,427</u>
Risk-weighted exposure amount for operational risk				
<i>Calculated under the Basic Indicator Approach</i>				
	880,894	39,640	52,854	70,472
Risk-weighted exposure amount for credit valuation adjustment				
<i>Calculated under the Standardised Method</i>				
	4,061	183	244	325
Total	8,960,924	403,242	537,655	716,874
Surplus CET1 Capital over the minimum requirement		945,593		
Surplus Tier1 Capital over the minimum requirement			1,110,873	
Surplus Total Capital over the minimum requirement				1,004,604

5 CREDIT RISK

5.1 DEFINITION OF CREDIT RISK

The Company defines credit risk as the risk of loss associated with a counterparty's potential inability or unwillingness to fulfil its on- and off-balance sheet payment obligations. Credit risk may arise directly from the risk of default of a primary obligor (e.g., issuer, debtor, borrower or policyholder), or indirectly from a secondary obligor (e.g., guarantor, reinsurance) and/or through off-balance sheet exposures, contingent credit risk and/or transactional risk. Credit risk includes counterparty credit risk from both trading and non-trading activities. Exposure to credit risk occurs any time funds are extended, committed or invested through actual or implied contractual agreement.

5.2 GOVERNANCE AND FRAMEWORK

Credit risk exposures across all lending and trading activities are aggregated and reported to the RC on a quarterly basis.

Individually, credit risk is controlled and reported as follows:

Banking Book Credit Risk

The loan credit risk profile is managed through the RC and more specifically the UK Lending Risk Management Committee (UKLRMC) and Wealth Management International Risk and Compliance Committee (WMI-RACC). The monitoring of Credit risk is a continual process. All borrowers are subject to a risk assessment and an exposure/limit review at least annually, with risk managed proactively on an ongoing basis. Borrowers that experience a material deterioration in credit quality and/or that may breach their covenants are added to a watch list which is monitored by the UKLRMC, the WMI-RACC and senior management.

Risk appetite is managed and controlled through exposure limits defined across single names, country, industry sector and ratings. Single Name exposures across the Banking Book are limited to the lower of any RBC group limits and the Company's Single Name Framework.

Ongoing monitoring and review processes undertaken by Group Risk Management Credit include:

- **Borrower Risk Rating (BRR) Regular Reviews** – BRRs (measures probability of borrower default) are reviewed quarterly;
- **Continuous Risk Assessment** – The impact of new information on borrowers is assessed on an ongoing basis to adjust BRR if appropriate;
- **Borrower Classification Code (BCC)** – Considers the probability of recovery of all monies due to the Company, and is based on an assessment of the borrower's current repayment capacity, including structure and collateral; and
- **Limit monitoring** – Exposures are monitored against single name limits.

Lending credit risk is mitigated through guarantees, collateral and/or the use of credit default swaps (CDS) where commercially feasible. As at 31 October 2021, none of the loans within the Company's loan portfolio carried any CDS as the credit worthiness of the borrowers remains within the Company's risk appetite (2020: nil).

Loan transactions are signed off by the UK Regulatory Reporting team for compliance with Regulatory Large Exposure Limits.

Counterparty Credit Risk

Each trading credit risk type is managed both separately as part of the RBC Group framework, and as part of a combined exposure metric specific to the Company, with exposure and limit usage reported daily to front office and senior management by GRM-Counterparty Credit Risk.

The Company's Single Name Limit Framework is the primary constraint on the Trading Credit Exposure. The limits defined as part of this framework are directly related to the Company's Risk Appetite Framework (RAF). This Framework is approved by the Board annually. The Managing Director of Credit Risk has the authority to approve temporary excesses. All operational limit excesses are reported to the UK Counterparty Credit Risk Management Committee (UKCCRMC). Monthly exposure data is also reviewed by the UKCCRMC, UK Market Risk Committee (UKMRC), and Risk Committee.

The UK Regulatory Reporting team also reports the overall capital requirement, including the capital requirement on credit risk, to the Company's senior management on a daily basis.

Assigning Internal Capital and Credit Limits

The Company assigns credit risk ratings to its borrowers to reflect its assessment of the specific credit risk of each borrower over a medium term time horizon starting from the time of risk assessment or revision or confirmation.

The rating is determined through an assessment of factors, specific to the industry and/or product, that differentiate the riskiness of the borrowers and reflects the probability of default of the borrower over the time horizon. The rating is maintained through a process of continuous monitoring and periodic review. This internal rating will be used to determine internal economic capital allocation.

5.3 CREDIT RISK PROFILE

The Company's credit risk is derived from its banking and trading activities. The table below indicates the risk-weighted exposure amounts of credit and counterparty credit risk from these two activities.

Table 10: Risk exposure amounts by banking and trading activities

As at 31 October 2021

£'000

	Banking	Trading	Total
Risk-weighted exposure amounts for credit and counterparty credit			
<i>Calculated under the Standardised Approach</i>			
Central governments or central banks	-	26,772	26,772
Regional governments or local authorities	9,523	-	9,523
Public sector entities	2,325	-	2,325
Multilateral Development Banks	-	-	-
Institutions	38,704	618,150	656,854
Corporates	2,644,161	1,258,607	3,902,767
Secured by mortgages on immovable property	225,517	-	225,517
Equity	63,562	-	63,562
Other items	9,554	-	9,554
	<u>2,993,346</u>	<u>1,903,528</u>	<u>4,896,874</u>
Risk exposure amount for contributions to the default fund of a CCP	-	45,928	45,928
	<u>2,993,346</u>	<u>1,949,457</u>	<u>4,942,803</u>
Risk-weighted exposure amount settlement/delivery risk in the Trading book	-	<u>2,830</u>	<u>2,830</u>
Total	<u>2,993,346</u>	<u>1,952,286</u>	<u>4,945,632</u>

5.3.1 Banking Book Credit Risk

The Capital Markets Banking Book credit profile is managed through monthly review by the UKLRMC, with the Wealth Management lending portfolio monitored at the quarterly WMI-RACC. The combined banking book credit risk profile for the Company is reported to the RC on a quarterly basis. All borrowers are subject to a risk assessment at least annually, with risk managed proactively on an ongoing basis. Borrowers with material deterioration in credit quality which may breach their covenants are added to a watch list for monitoring, and action is taken as appropriate.

Credit risk is mitigated through guarantees and collateral where considered appropriate and commercially feasible.

As at 31 October 2021, the Company had total gross credit exposures¹ of £15.5 billion (2020: £13.3 billion), and the average gross credit exposure is £14.9 billion over the year (2020: £14.8 billion). Detailed exposures by exposure class, residual maturity and geographic distribution are shown in the following tables.

¹ Gross credit risk exposure is after accounting offsets, but without taking into account the effects of the credit risk mitigation. Final exposure is after the accounting offsets and the credit risk mitigation.

Table 11: Gross credit exposures within the banking book

As at 31 October 2021

£'000

Exposure amounts for credit risk in the banking book

	Gross Exposure	Final Exposure	Risk-weighted Exposure
<u>On balance sheet exposures</u>			
Central governments or central banks	5,773,875	5,773,875	-
Regional governments or local authorities	19,046	19,046	9,523
Public sector entities	11,627	11,627	2,325
Multilateral Development Banks	732,540	732,540	-
Institutions	160,322	160,322	35,029
Corporates	5,908,371	2,415,824	1,991,143
Secured by mortgages on immovable property	565,342	564,142	219,502
Equity	63,562	63,562	63,562
Other items	9,560	9,560	9,554
	<u>13,244,244</u>	<u>9,750,496</u>	<u>2,330,639</u>
<u>Off balance sheet exposures</u>			
Central governments or central banks	-	-	-
Public sector entities	-	-	-
Multilateral Development Banks	-	-	-
Institutions	18,528	14,945	3,675
Corporates	2,227,564	742,638	653,017
Secured by mortgages on immovable property	56,231	14,587	6,014
Equity	-	-	-
Other items	-	-	-
	<u>2,302,324</u>	<u>772,170</u>	<u>662,707</u>
Total	<u>15,546,568</u>	<u>10,522,666</u>	<u>2,993,346</u>

Small and medium enterprises included in Corporates

- - -

Table 12: Average gross credit exposures within the banking book

As at 31 October 2021

£'000

	Gross Exposure	Final Exposure	Risk-weighted Exposure
<u>On balance sheet exposures</u>			
Central governments or central banks	4,922,100	4,922,100	-
Regional governments or local authorities	17,889	17,889	8,947
Public sector entities	13,515	13,515	2,703
Multilateral Development Banks	941,072	941,072	-
Institutions	317,722	317,722	72,910
Corporates	5,412,008	2,248,621	1,852,634
Secured by mortgages on immovable property	519,728	508,894	191,063
Equity	56,863	56,863	56,863
Other items	9,810	9,810	9,806
	<u>12,210,708</u>	<u>9,036,487</u>	<u>2,194,927</u>
<u>Off balance sheet exposures</u>			
Central governments or central banks	51,074	25,541	-
Regional governments or local authorities	-	-	-
Public sector entities	-	-	-
Multilateral Development Banks	-	-	-
Institutions	23,717	19,923	4,892
Corporates	2,534,523	748,952	663,540
Secured by mortgages on immovable property	61,565	18,083	6,555
Equity	-	-	-
Other items	3,701	1,850	-
	<u>2,674,579</u>	<u>814,350</u>	<u>674,987</u>
Total	<u>14,885,287</u>	<u>9,850,837</u>	<u>2,869,914</u>

Small and medium enterprises, included in Corporates

- - -

Table 13: Gross credit exposure by residual maturity

As at 31 October 2021

£'000

Gross exposure amounts for credit risk in the banking book	Less than 1 month	1 to 3 months	3 to 12 months	1 to 5 years	Greater than 5 years	Total
<u>On balance sheet exposures</u>						
Central governments or central banks	5,773,875	-	-	-	-	5,773,875
Regional governments or local authorities	-	-	-	-	19,046	19,046
Public sector entities	-	6,743	-	4,884	-	11,627
Multilateral development banks	-	134,750	186,735	306,712	104,343	732,540
Institutions	142,154	-	13,739	4,429	-	160,322
Corporates	241,607	272,396	1,480,176	3,264,161	650,032	5,908,371
Secured by mortgages on immovable property	77,064	31,320	37,310	413,414	6,235	565,342
Equity	-	-	-	-	63,562	63,562
Other items	9,560	-	-	-	-	9,560
	6,244,260	445,209	1,717,959	3,993,599	843,217	13,244,244
<u>Off balance sheet exposures</u>						
Central governments or central banks	-	-	-	-	-	-
Regional governments or local authorities	-	-	-	-	-	-
Public sector entities	-	-	-	-	-	-
Multilateral development banks	-	-	-	18,528	-	18,528
Institutions	-	14,563	359,237	1,682,483	171,281	2,227,564
Corporates	-	-	44,708	11,523	-	56,231
Secured by mortgages on immovable property	-	-	-	-	-	-
Equity	-	-	-	-	-	-
Other items	-	-	-	-	-	-
	-	14,563	403,945	1,712,534	171,281	2,302,324
Total	6,244,260	459,773	2,121,904	5,706,134	1,014,498	15,546,568

Table 14: Final credit exposure by residual maturity

As at 31 October 2021

£'000

Final exposure amounts for credit risk in the banking book	Less than 1 month	1 to 3 months	3 to 12 months	1 to 5 years	Greater than 5 years	Total
<u>On balance sheet exposures</u>						
Central governments or central banks	5,773,875	-	-	-	-	5,773,875
Regional governments or local authorities	-	-	-	-	19,046	19,046
Public sector entities	-	6,743	-	4,884	-	11,627
Multilateral development banks	-	134,750	186,735	306,712	104,343	732,540
Institutions	142,154	-	13,739	4,429	-	160,322
Corporates	161,420	33,031	314,953	1,302,333	604,086	2,415,824
Secured by mortgages on immovable property	77,064	31,320	37,310	412,214	6,235	564,142
Equity	-	-	-	-	63,562	63,562
Other items	9,560	-	-	-	-	9,560
	6,164,073	205,844	552,737	2,030,572	797,271	9,750,496
<u>Off balance sheet exposures</u>						
Central governments or central banks	-	-	-	-	-	-
Institutions	-	-	-	14,945	-	14,945
Corporates	-	12,890	98,369	585,416	45,963	742,638
Secured by mortgages on immovable property	-	-	8,825	5,762	-	14,587
Equity	-	-	-	-	-	-
Other items	-	-	-	-	-	-
	-	12,890	107,194	606,123	45,963	772,170
Total	6,164,073	218,734	659,931	2,636,695	843,233	10,522,666

Table 15: Credit conversion factor for off balance sheet credit exposures

As at 31 October 2021

£'000

Exposure amounts for credit risk in the banking book

	Conversion Factors	Gross Exposure	Final Exposure	Risk-weighted Exposure
<u>Off balance sheet exposures</u>				
Central governments or central banks	50%	-	-	-
Institutions	50%	7,166	3,583	1,403
	100%	11,362	11,362	2,272
Corporates	0%	-	-	-
	50%	2,189,236	705,903	616,283
	100%	38,329	36,734	36,734
Secured by mortgages on immovable property	50%	56,231	14,587	6,014
Total		2,302,324	772,170	662,707

Table 16: Gross credit exposure by geographic distribution

As at 31 October 2021

£'000

Gross exposure amounts for credit risk in the banking book

	Asia-Pacific	Caribbean	EEA	Europe Other	Middle East	North America	United Kingdom	Others	Total
<u>On balance sheet exposures</u>									
Central governments or central banks	-	-	483,019	306,085	-	137,838	4,846,932	-	5,773,875
Public sector entities	-	-	11,627	-	-	-	-	-	11,627
Institutions	127	3	24,787	30	2	76,407	58,965	-	160,322
Corporates	58,997	98,080	3,058,286	782,324	7,803	111,001	1,791,880	-	5,908,371
Secured by mortgages on immovable property	-	-	937	-	-	-	564,406	-	565,342
Equity	-	-	63,562	-	-	-	-	-	63,562
Other items	-	-	9,560	-	-	-	-	-	9,560
	59,124	98,083	3,651,778	1,088,440	7,805	325,246	7,262,183	-	12,492,659
<u>Off balance sheet exposures</u>									
Central governments or central banks	-	-	-	-	-	-	-	-	-
Institutions	-	-	18,528	-	-	-	-	-	18,528
Corporates	8,651	39,529	1,004,417	114,099	250,113	93,329	680,063	37,363	2,227,564
Secured by mortgages on immovable property	-	-	-	-	-	-	56,231	-	56,231
Equity	-	-	-	-	-	-	-	-	-
Other items	-	-	-	-	-	-	-	-	-
	8,651	39,529	1,022,945	114,099	250,113	93,329	736,294	37,363	2,302,324
Total	67,775	137,611	4,674,723	1,202,539	257,918	418,575	7,998,477	37,363	14,794,983

Table 17: Final credit exposure by geographic distribution

As at 31 October 2021

£'000

Final exposure amounts for credit risk in the banking book

	Asia-Pacific	Caribbean	EEA	Europe Other	Middle East	North America	United Kingdom	Others	Total
<u>On balance sheet exposures</u>									
Central governments or central banks	-	-	483,019	306,085	-	137,838	4,846,932	-	5,773,875
Public sector entities	-	-	11,627	-	-	-	-	-	11,627
Institutions	127	3	24,787	30	2	76,407	58,965	-	160,322
Corporates	58,997	38,026	806,435	465,773	7,803	95,834	942,955	-	2,415,824
Secured by mortgages on immovable property	-	-	937	-	-	-	563,206	-	564,142
Equity	-	-	63,562	-	-	-	-	-	63,562
Other items	-	-	9,560	-	-	-	-	-	9,560
	59,124	38,029	1,399,927	771,888	7,805	310,079	6,412,059	-	8,998,911
<u>Off balance sheet exposures</u>									
Central governments or central banks	-	-	-	-	-	-	-	-	-
Institutions	-	-	14,945	-	-	-	-	-	14,945
Corporates	3,451	7,798	343,426	32,886	40,643	39,180	271,518	3,736	742,638
Secured by mortgages on immovable property	-	-	-	-	-	-	14,587	-	14,587
Equity	-	-	-	-	-	-	-	-	-
Other items	-	-	-	-	-	-	-	-	-
	3,451	7,798	358,372	32,886	40,643	39,180	286,105	3,736	772,170
Total	62,574	45,827	1,758,298	804,774	48,448	349,259	6,698,163	3,737	9,771,081

Further details on geographic distribution in relation to the EEA member states are shown below.

Table 18: Gross credit exposure by geographic distribution within the EEA

Gross exposure in relation to the EEA member states	Luxembourg	Germany	Netherlands	Ireland	Finland	Spain	France	Belgium	Others	Total
<u>On balance sheet exposures</u>										
Central governments or central banks	-	407,834	-	-	-	-	-	-	75,186	483,019
Public sector entities	-	-	-	-	4,884	-	6,743	-	-	11,627
Institutions	-	13,824	4,429	6,525	-	-	4	-	6	24,787
Corporates	1,660,415	106,880	358,087	363,144	307,498	57,955	93,161	-	111,146	3,058,286
Secured by mortgages on immovable property	-	-	-	-	-	-	937	-	-	937
Equity	-	-	-	-	-	-	-	63,562	-	63,562
Other items	9,560	-	-	-	-	-	-	-	-	9,560
	1,669,975	528,537	362,516	369,669	312,382	57,955	100,845	63,562	186,337	3,651,778
<u>Off balance sheet exposures</u>										
Central governments or central banks	-	-	-	-	-	-	-	-	-	-
Institutions	-	-	13,953	4,576	-	-	-	-	-	18,528
Corporates	146,749	226,040	183,252	82,907	46,596	217,386	27,173	56,272	18,041	1,004,417
Secured by mortgages on immovable property	-	-	-	-	-	-	-	-	-	-
Equity	-	-	-	-	-	-	-	-	-	-
Other items	-	-	-	-	-	-	-	-	-	-
	146,749	226,040	197,204	87,483	46,596	217,386	27,173	56,272	18,041	1,022,945
Total	1,816,724	754,577	559,721	457,152	358,977	275,341	128,018	119,834	204,379	4,674,723

Table 19: Final credit exposure by geographic distribution within the EEA

As at 31 October 2021

£'000

Final exposure in relation to the EEA member states	Luxembourg	Germany	Netherlands	Ireland	Finland	Spain	France	Belgium	Others	Total
<u>On balance sheet exposures</u>										
Central governments or central banks	-	407,834	-	-	-	-	-	-	75,186	483,019
Public sector entities	-	-	-	-	4,884	-	6,743	-	-	11,627
Institutions	-	13,824	4,429	6,525	-	-	4	-	6	24,787
Corporates	467,805	36,173	76,276	112,297	32,972	31,620	23,172	-	26,120	806,435
Secured by mortgages on immovable property	-	-	-	-	-	-	937	-	-	937
Equity	-	-	-	-	-	-	-	63,562	-	63,562
Other items	9,560	-	-	-	-	-	-	-	-	9,560
	477,364	457,830	80,706	118,822	37,855	31,620	30,856	63,562	101,312	1,399,927
<u>Off balance sheet exposures</u>										
Central governments or central banks	-	-	-	-	-	-	-	-	-	-
Institutions	-	-	12,658	2,288	-	-	-	-	-	14,945
Corporates	40,797	100,903	103,917	13,527	18,299	28,582	1,122	28,136	8,143	343,426
Secured by mortgages on immovable property	-	-	-	-	-	-	-	-	-	-
Equity	-	-	-	-	-	-	-	-	-	-
Other items	-	-	-	-	-	-	-	-	-	-
	40,797	100,903	116,574	15,815	18,299	28,582	1,122	28,136	8,143	358,372
Total	518,162	558,733	197,280	134,637	56,154	60,203	31,978	91,698	109,455	1,758,298

5.3.2 Credit Risk Adjustments

The Company defines a credit risk adjustment as the amount of specific loan provision for credit losses that has been recognised in its financial statements in accordance with the International Financial Reporting Standards (IFRS).

An Allowance for Credit Losses (ACL) is established for all financial instruments, except for financial assets classified or designated as FVTPL and equity securities designated as FVOCI, which are not subject to impairment assessment. Assets subject to impairment assessment include certain loans, debt securities and accrued interest receivable. ACL on loans is presented in Allowance for loan losses. ACL on debt securities measured at FVOCI is presented in Other components of equity. Other financial assets carried at amortised cost are presented net of ACL on Balance Sheet. Off-balance sheet items subject to impairment assessment include financial guarantees and undrawn loan commitments. For certain wealth management products, expected credit losses are measured based on the total exposure and are not attributable to the on- and off-balance sheet components. For these products, ACL is presented in Allowance for Loan Losses to the extent that ACL does not exceed the related loan balance, and thereafter presented in Other Liabilities – Provisions. For all other off-balance sheet products subject to impairment assessment, ACL is separately calculated and included in Other Liabilities – Provisions. The Company interacts with the Group when calculating expected credit losses utilising its scale and sophistication of modelling processes as well as governance structure in order to measure the ACL on each balance sheet date according to a three-stage expected credit loss impairment model:

Performing financial assets

- Stage 1 – From initial recognition of a financial asset to the date on which the asset has experienced a significant increase in credit risk relative to its initial recognition, a loss allowance is recognised equal to the credit losses expected to result from defaults occurring over the 12 months following the reporting date.
- Stage 2 – Following a significant increase in credit risk relative to the initial recognition of the financial asset, a loss allowance is recognised equal to the credit losses expected over the remaining lifetime of the asset.

Impaired financial assets

- Stage 3 – When a financial asset is considered to be credit-impaired, a loss allowance is recognised equal to credit losses expected over the remaining lifetime of the asset. Interest revenue is calculated based on the carrying amount of the asset, net of the loss allowance, rather than on its gross carrying amount.

The ACL is a discounted probability-weighted estimate of the cash shortfalls expected to result from defaults over the relevant time horizon. For loan commitments, credit loss estimates consider the portion of the commitment that is expected to be drawn over the relevant time period. For financial guarantees, credit loss estimates are based on the expected payments required under the guarantee contract.

Increases or decreases in the required ACL attributable to purchases and new originations, de-recognitions or maturities, and re-measurements due to changes in loss expectations or stage transfers are reported in the profit and loss account as Provision for credit losses. Write-offs and recoveries of amounts previously written off are recorded against ACL.

The ACL represents an unbiased estimate of expected credit losses on the financial assets as at the balance sheet date. Judgement is required in making assumptions and estimations when calculating the ACL, including movements between the three stages and the application of forward looking information. The underlying assumptions and estimates may result in changes to the provisions from year to year that significantly affect the Company's results of operations.

Individually assessed loans (Stage 3)

When individually significant loans are identified as impaired, the Company reduces the carrying value of the loans to their estimated realizable value by recording an individually assessed ACL to cover identified credit losses. The individually assessed ACL reflects the expected amount of principal and interest calculated under the terms of the original loan agreement that will not be recovered, and the impact of time delays in collecting principal and/or interest (time value of money). The estimated realisable value for each individually significant loan is the present value of expected future cash flows discounted using the original effective interest rate for each loan. When the amounts and timing of future cash flows cannot be estimated with reasonable reliability, the estimated realisable amount may be determined using observable market prices for comparable loans, the fair value of collateral underlying the loans, and other reasonable and supported methods based on management judgement.

Individually-assessed allowances are established in consideration of a range of possible outcomes, which may include macroeconomic or non-macroeconomic scenarios, to the extent relevant to the circumstances of the specific borrower being assessed. Assumptions used in estimating expected future cash flows reflect current and expected future economic conditions and are generally consistent with those used in Stage 1 and Stage 2 measurement.

Significant judgement is required in assessing evidence of credit-impairment and estimation of the amount and timing of future cash flows when determining expected credit losses. Changes in the amount expected to be recovered would have a direct impact on the Provision for credit losses and may result in a change in the ACL.

Write-off of loans

Loans and the related ACL are written-off, either partially or in full, when there is no realistic prospect of recovery. Where loans are secured, they are generally written off after receipt of any proceeds from the realization of collateral. In circumstances where the net realizable value of any collateral has been determined and there is no reasonable expectation of further recovery, write off may be earlier.

Table 20: Reconciliation of provision for credit losses for all financial instruments

	31 October 2021	31 October 2020
	£'000	£'000
Provisions brought forward	17,718	11,204
Provisions raised during the year	(7,435)	14,457
Net write-offs	(1,469)	(8,994)
Exchange rate and other	(536)	1,051
Provisions as at year end	<u>8,278</u>	<u>17,718</u>

As at 31 October 2021, RBCEL had stage 3 impairments of £2.7 million (2020: £0.3 million).

5.3.3 Counterparty Credit Risk

Trading book counterparty risk arises from exposure to the following:

- Securities finance transactions (SFT), as part of Fixed Income, Central Funding Group and Equity Finance businesses.
- Derivatives, primarily through Exchange traded derivatives (ETD) and over-the-counter (OTC) derivatives.

Table 21: Trading credit risk

As at 31 October 2021

£'000

Counterparty credit risk exposure by products	Gross Exposure	Final Exposure	Risk-weighted Exposure
<i>Calculated under the Standardised Approach</i>			
Exchange traded derivatives	1,560,968	1,229,485	93,250
Over The Counter (OTC) derivatives	452,490	36,683	15,770
Securities Financing Transactions (SFTs)	3,442,593	3,442,593	1,794,509
Total	<u>5,456,051</u>	<u>4,708,761</u>	<u>1,903,528</u>

Each trading credit risk type is managed both separately as part of the RBC Group framework, and as part of a combined exposure metric specific to the Company, with exposure and limit usage reported daily to senior management by GRM Counterparty Credit Risk.

The Company's Single Name Limit Framework is the primary constraint of the Company's trading credit exposure. The limits defined as part of this framework are directly related to the Company's risk appetite.

The Company's counterparty credit risk profile is largely made up of equity securities finance / stock lending and fixed income repurchase transactions (repo). Counterparty credit risk is managed through increasing over-collateralisation margins on riskier counterparties with margins being actively managed and exchanged daily.

Cash margins are introduced once the market value of collateral is insufficient to cover the underlying amount of the repurchase agreement or securities borrowed or loaned. Collateral is an important mitigation of credit risk. The Company holds collateral mainly in the form of securities and has the ability to use CDSs in order to enhance credit protection.

Credit counterparty risk from derivatives is mitigated where possible through netting agreements whereby derivative assets and liabilities with the same counterparty can be offset. The Company requires all netting arrangement to be legally enforceable. Collateral and cash margins are also obtained as an important mitigation of credit risk.

The Company ensures that any collateral held is sufficiently liquid, legally effective, enforceable and regularly reassessed. Any collateral taken is generally subject to a valuation adjustment with a percentage applicable to each type of collateral, which will be largely based on liquidity and price volatility of the underlying security.

As at 31 October 2021, the Company had total gross credit exposures of £5.5 billion (2020: £3.8 billion), and the average gross credit exposure is £4.8 billion over the year (2020: £4.9 billion). Detailed exposures by products, exposure class, residual maturity and geographic distribution are shown in the tables below.

Table 22: Counterparty credit risk by exposure class

As at 31 October 2021

£'000

Exposure amounts for counterparty credit risk in trading book	Gross Exposure	Final Exposure	Risk-weighted Exposure
<i>Calculated under the Standardised Approach</i>			
Central governments or central banks	175,109	175,109	26,772
Public sector entities	-	-	-
International Organisation	-	-	-
Institutions	3,866,450	3,140,323	618,150
Corporates	1,414,491	1,393,329	1,258,607
Total	5,456,051	4,708,761	1,903,528
Small and medium enterprises, included in Corporates	-	-	-

Table 23: Average counterparty credit risk exposure

As at 31 October 2021

£'000

	Gross Exposure	Final Exposure	Risk-weighted Exposure
<i>Calculated under the Standardised Approach</i>			
Central governments or central banks	231,243	231,243	38,018
Public sector entities	2,456	2,419	492
International organisations	8,662	8,662	-
Institutions	3,356,977	2,654,074	604,323
Corporates	1,214,863	1,186,964	1,081,924
Total	4,814,201	4,083,362	1,724,757
Small and medium enterprises, included in Corporates	-	-	-

Table 24: Gross counterparty credit exposure by residual maturity

As at 31 October 2021

£'000

Gross exposure amounts for counterparty credit risk	Less than 1 month	1 to 3 months	3 to 12 months	1 to 5 years	Greater than 5 years	Total
Central governments or central banks	175,109	-	-	-	-	175,109
Public sector entities	-	-	-	-	-	-
International organisation	-	-	-	-	-	-
Institutions	2,219,916	454,448	664,991	495,283	31,812	3,866,450
Corporates	1,157,016	146,281	107,607	3,587	-	1,414,491
Total	3,552,042	600,729	772,598	498,870	31,812	5,456,051

Table 25: Final counterparty credit exposure by residual maturity

As at 31 October 2021

£'000

Final exposure amounts for counterparty credit risk	Less than 1 month	1 to 3 months	3 to 12 months	1 to 5 years	Greater than 5 years	Total
Central governments or central banks	175,109	-	-	-	-	175,109
Public sector entities	-	-	-	-	-	-
International organisation	-	-	-	-	-	-
Institutions	2,048,739	337,252	494,901	259,431	-	3,140,323
Corporates	1,151,945	140,516	98,434	2,434	-	1,393,329
Total	3,375,793	477,767	593,336	261,864	-	4,708,761

Table 26: Gross counterparty credit exposure by geographic distribution

As at 31 October 2021
£'000

Gross exposure amounts for counterparty credit risk	Asia-Pacific	Caribbean	EEA	Europe Other	Middle East	North America	United Kingdom	Others	Total
Central governments or central banks	18,439	-	16,331	17	112,061	23,656	4,605	-	175,109
Public sector entities	-	-	-	-	-	-	-	-	-
Institutions	364,095	4,627	628,560	120,096	-	809,304	1,939,511	257	3,866,450
Corporates	169,972	401,890	308,466	78,292	1	178,079	277,791	-	1,414,491
Total	552,507	406,517	953,357	198,405	112,062	1,011,039	2,221,907	257	5,456,051

Table 27: Final counterparty credit exposure by geographic distribution

As at 31 October 2021
£'000

Final exposure amounts for counterparty credit risk	Asia-Pacific	Caribbean	EEA	Europe Other	Middle East	North America	United Kingdom	Others	Total
Central governments or central banks	18,439	-	16,331	17	112,061	23,656	4,605	-	175,109
Public sector entities	-	-	-	-	-	-	-	-	-
Institutions	364,095	4,627	629,154	120,096	-	123,618	1,898,476	257	3,140,323
Corporates	169,972	401,794	307,811	61,917	1	174,044	277,791	-	1,393,329
Total	552,507	406,420	953,296	182,030	112,062	321,317	2,180,872	257	4,708,761

Further details on geographic distribution in relation to the EEA member states and North America are shown below.

Table 28: Gross credit exposure by geographic distribution within the EEA and North America

As at 31 October 2021
£'000

Gross exposure in relation to the EEA member states	France	Ireland	Belgium	Netherlands	Germany	Luxembourg	Sweden	Austria	Others	Total
Central governments or central banks	-	-	-	-	-	-	-	16,303	28	16,331
Institutions	249,643	44,171	148,915	93,791	85,515	3,475	-	-	3,049	628,560
Corporates	24,630	165,450	7,706	27,383	9,518	53,935	16,996	-	2,849	308,466
Total	274,274	209,621	156,621	121,174	95,034	57,410	16,996	16,303	5,926	953,357

As at 31 October 2021
£'000

Gross exposure in relation to North America	Canada	United States	Total
Central governments or central banks	-	23,656	23,656
Public sector entities	-	-	-
Institutions	559,635	249,669	809,304
Corporates	42,404	135,676	178,079
Total	602,038	409,000	1,011,039

Table 29: Final credit exposure by geographic distribution within the EEA and North America

As at 31 October 2021
£'000

Final exposure in relation to the EEA member states	France	Ireland	Belgium	Netherlands	Germany	Luxembourg	Sweden	Austria	Others	Total
Central governments or central banks	-	-	-	-	-	-	-	16,303	28	16,331
Institutions	250,237	44,171	148,915	93,791	85,515	3,475	-	-	3,049	629,154
Corporates	24,630	165,082	7,706	27,383	9,518	53,647	16,996	-	2,849	307,811
Total	274,867	209,253	156,621	121,174	95,034	57,123	16,996	16,303	5,926	953,296

As at 31 October 2021
£'000

Final exposure in relation to North America	Canada	United States	Total
Central governments or central banks	-	23,656	23,656
Public sector entities	-	-	-
Institutions	33,999	89,619	123,618
Corporates	42,404	131,640	174,044
Total	76,402	244,915	321,317

5.3.4 Wrong-Way Risk Exposures

The Company has detailed policies and procedures in place to ensure that the wrong-way risk is closely monitored. General wrong-way risk exists when there is a positive correlation between the probability of default of counterparties to general market risk factors.

For securities financing transactions, specific wrong-way risk counterparty exposure is incurred when the Company enters into a securities financing transaction with a counterparty where the underlying collateral held by the Company includes securities issued by the counterparty or any affiliate of that counterparty. Where the risk to the collateral and the risk of default by the counterparty are potentially correlated, GRM, along with the relevant business, will evaluate and perform ad hoc wrong-way risk analyses against potential scenarios, as appropriate.

For derivative transactions, specific wrong-way risk exists when the exposure to a particular counterparty is positively and highly correlated with the probability of default of the counterparty due to the nature of the transactions with the counterparty. Specific guidelines have been established to calculate the exposure as well as the internal approval process to be used. GRM-Counterparty Credit Risk are responsible for the monitoring of the wrong-way risk in derivative transactions.

5.3.5 Counterparty Credit Risk Arising from Derivative Transactions

As at 31 October 2021, the final exposure arising from derivative transactions amounted to £577.3 million (2020: £365.8 million). Refer to the previous section for detailed disclosure on exposures by product type.

Table 30: Counterparty credit risk for derivative transactions

As at 31 October 2021	Gross Positive Fair Value	Gross PFCE*	Netting Benefits	Initial Exposure	Collateral Allocated**	Final Exposure** *	Gross Notional
<i>£'000</i>							
<i>Calculated under the Mark to Market Method</i>							
<u><i>Exchanged Traded Derivatives</i></u>							
Commodities	370,824	509,387	(386,412)	493,799	(52,792)	441,006	5,019,937
Equities	18,682	162,680	(22,551)	158,811	(113,946)	44,865	2,711,331
Foreign Exchange and Gold	242	200	(27)	416	(290)	126	20,043
Interest Rate	95,804	236,667	(179,452)	153,019	(90,312)	62,708	87,637,274
	<u>485,553</u>	<u>908,934</u>	<u>(588,442)</u>	<u>806,046</u>	<u>(257,340)</u>	<u>548,705</u>	<u>95,388,585</u>
<u><i>Over-The-Counter Derivatives</i></u>							
Commodities	29,726	10,685	(14,634)	25,777	(7,021)	18,757	106,851
Credit Default Swaps	13,288	33,652	(27,264)	19,676	(19,676)	-	336,516
Foreign Exchange and Gold	96,099	325,102	(135,105)	286,096	(286,096)	-	22,099,903
Interest Rate	<u>399,823</u>	<u>117,252</u>	<u>(404,178)</u>	<u>112,897</u>	<u>(103,014)</u>	<u>9,883</u>	<u>28,103,619</u>
	<u>538,936</u>	<u>486,690</u>	<u>(581,180)</u>	<u>444,446</u>	<u>(415,807)</u>	<u>28,639</u>	<u>51,912,011</u>
Total	<u>1,024,489</u>	<u>1,395,625</u>	<u>(1,169,622)</u>	<u>1,250,492</u>	<u>(673,147)</u>	<u>577,345</u>	<u>147,300,596</u>

*PFCE stands for potential future credit exposure.

**Collateral allocated amount is the collateral mark to market value after appropriate volatility adjustments.

The Company uses (CDS) to manage the traded credit risk arising from its trading activities. The table below indicates the notional amounts of CDS sold and purchased at year end.

Table 31: Notional of CDS

Notional	
£'000	2021
<i>Own credit portfolio</i>	
Buy	231,003
Sell	<u>105,513</u>
Total	336,516

As at 31 October 2021, the Company received total collateral of £868.8 million for OTC derivative transactions (2020: £568.4 million). The Company also pledges collateral for its OTC derivative transactions. As at the year end, if RBC's credit rating had been downgraded by three notches, it would be required to pledge additional collateral of £7.3 million to its OTC derivative counterparties (2020: £7.7 million). The Company maintains a sufficient level of high quality liquid assets to satisfy any additional collateral requirements triggered by the downgrade of its credit rating.

5.3.6 Use of Credit Risk Mitigation Techniques

The Company uses the following credit risk mitigation techniques to actively manage its credit risks within its banking and trading portfolios:

- Netting and set-off,
- Collateral,
- Risk transfers and
- Non Payment Insurance.

The Company has detailed policies in place to ensure that credit mitigation is appropriately recognised and captured for regulatory capital purposes. In order to recognise the credit risk mitigation, the Company takes into account the following factors:

- Effectiveness and enforceability of the legal arrangements in place;
- Correlation between the value of collateral and the credit quality of the obligor;
- Eligibility and quality of the collateral received.

The Company will often seek to enter into standard master netting agreements with counterparties for derivative and SFT transactions. These master netting agreements enable the Company to apply on/off balance sheet netting to reduce net credit exposure. Collateral received from derivative and SFT transactions are mainly government and other high quality securities. All financial collateral is subject to daily revaluation and the Company also performs a revaluation on all properties held as collateral every three years. The valuation is then reviewed by a Credit Specialist and GRM. Credit Management is responsible for ensuring that the revaluation is executed in a timely manner.

The Company has established the following guiding principles for collateral management:

- Collateral should be liquid i.e. actively traded in secondary markets.
- Collateral should be of high credit quality.
- Collateral should be readily settled at an authorised clearing agency.
- Collateral should be exchanged on a regular basis.
- GRM risk capture and reporting must be in place.
- Collateral must be able to be independently valued.
- Collateral should be held so that it is available and protected in the event of a counterparty's default.
- Securities issued by a counterparty or its related entities are not eligible as collateral (excludes specified equity derivative transactions).
- Collateral should be diversified and not concentrated by issuer type or issue.

Guarantees and funded/unfunded risk participation arrangements have been sought mainly from other financial institutions by the Company to transfer its credit exposure to a counterparty which is more credit worthy than the original counterparty to reduce the overall credit risk.

The market risk and credit concentrations within the credit mitigation taken are monitored by the UK Regulatory Reporting team through its daily capital requirements and large exposure reporting process.

5.3.7 Use of External Credit Assessment Institutions

The Company uses the following external credit assessment institutions (ECAIs) for banking book credit risk and counterparty credit risk calculations purposes throughout the reporting period:

- Standard & Poor's, and
- Moody's.

As at 31 October 2021, the gross exposure amount subject to the use of the ECAIs was £5.4 billion (2020: £5.9 billion), which accounts for 25.6% of the total gross exposure² at year end (2020: 34.6%).

Table 32: Exposures amounts subjected to the use of the ECAIs

As at 31 October 2021

£'000	Gross Exposure	Final Exposure	Risk- weighted Exposures
Exposure amounts subject to the use of the ECAIs			
Central governments or central banks	689,450	689,450	-
Regional governments or local authorities	19,046	19,046	9,523
Public sector entities	11,627	11,627	2,325
Multilateral Development Banks	732,540	732,540	-
Institutions	2,164,780	1,468,942	373,329
Corporates	1,757,250	1,080,643	524,227
Total	5,374,693	4,002,247	909,404

As at 31 October 2021, majority of the Company's credit exposures subject to the use of ECAIs are to those counterparties with Credit Quality Step (CQS) 1 and 2³ (2021: 90.4%; 2020: 82.0%). Exposures amounts by CQS are shown below.

Table 33: Exposure amounts by CQS

£'000	2021		
	Gross Exposure	Final Exposure	Risk- weighted Exposures
CQS			
1	3,319,815	2,689,789	92,573
2	1,538,051	1,114,765	618,892
3	488,814	189,376	186,643
4	12,221	2,362	2,362
5	15,792	5,956	8,933
6	-	-	-
Total	5,374,693	4,002,247	909,404

² Total gross exposure amounts exclude the exposure amount for contributions to the default fund of a CCP.

³ CQS 1-3 represent investment grades (e.g. S&P: AAA+ to BBB-).

6 MARKET RISK

6.1 DEFINITION OF MARKET RISK

Market risk is defined as the risk of loss resulting from changes in market factors and the volatility of these factors. Market risk can be exacerbated by thinly-traded or illiquid markets. RBCEL considers market risk to fall into the following categories:

- **Credit Spread Risk:** The risk of loss due to the change in credit spreads on all financial instruments whose accounting fair value depends on credit spreads. This includes securities, credit derivatives and fair value liabilities.
- **Interest Rate Risk:** The risk of loss resulting from changes in interest rates.
- **Foreign Exchange Risk:** The risk of loss resulting from changes in exchange rates.
- **Equity Risk:** The risk of loss resulting from changes in equity prices and indices.
- **Commodity Risk:** The risk of loss resulting from changes in commodity prices.
- **Underwriting Risk:** The risk of loss resulting from (i) the failure to place or sell a particular security or bond concurrent with a negative market or credit risk event; and (ii) inadequate due diligence in connection with a securities offering.

6.2 GOVERNANCE AND FRAMEWORK

Market Risk is managed through the Company's Market Risk Framework which is governed and overseen by the Head of Market Risk Europe & APAC in London. The Company is also subject to the RBC Group policies laid out in the RBC Group Market Risk Framework and standing orders.

GRM Market Risk produces daily reports for the business and senior management detailing the Company's exposure against limits, as well as summary reports for the UKMRC, UK Risk Executive Committee and the RC.

The Company's market risk appetite is set and reviewed by the Board. The Company has a range of limits in place covering the risk measurement metrics noted above. All limits set by the Company are consistent with the stated risk appetite. In addition to the Board approved limits, exposures are also limited by the RBC Group limit structure.

The Company uses a two tier market risk limit structure:

- *Tactical limits* are set and approved by the Board and are constrained by economic capital limits. Tactical limits are designed so risk taken cannot exceed available financial resources. All tactical limit changes are reported to the UKMRC; and
 - *Operational limits* are approved by the Head of Market Risk Europe & APAC and reviewed as required by the UKMRC. Operational limits must always remain lower than tactical limits. All operational limit excesses are reported to the Conduct Committee, and all operational limit changes are reported to the UKMRC.

The UK Regulatory Reporting team also monitor the overall capital requirement, including capital requirement on market risk, on a daily basis.

Additional information is provided in the Company's Annual Accounts and Financial Statements.

6.3 RISK PROFILE

As at 31 October 2021, the Company's capital requirement in relation to market risk is £250 million (2020: £217 million).

Table 34: Market risk by risk type

As at 31 October 2021	Risk-weighted Exposure	Capital Requirement
£'000		
Interest rate risk	2,906,369	232,510
<i>of which: Securitisation position risk</i>	12	1
Equity risk	85,392	6,831
Foreign-exchange risk	120,600	9,648
Settlement risk	-	-
Commodities risk	18,288	1,463
	<u>3,130,649</u>	<u>250,452</u>

The Company had £36 million (2020 £29 million) CIU trading book risk weight exposures (included in equity risk) as at the financial year-end.

7 SECURITISATIONS

The Company defines securitisation as a transaction or scheme, whereby the credit risk associated with an exposure or pool of exposures is tranching, having both of the following characteristics:

- payments in the transaction or scheme are dependent upon the performance of the exposure or pool of exposures; and
- the subordination of tranches determines the distribution of losses during the ongoing life of the transaction or scheme.

Re-securitisation means securitisation where the risk associated with an underlying pool of exposures is tranching and at least one of the underlying exposures is a securitisation position.

A securitisation position can be either classified as:

- *Traditional securitisation*: a securitisation involving the economic transfer of the exposures being securitised.
- *Synthetic securitisation*: a securitisation where the transfer of risk is achieved by the use of credit derivatives or guarantees, and the exposures being securitised remain exposures of the originator institution.

7.1.1 Objectives of Securitisation Activities

The Company trades a range of European securitised products in the secondary market and is not engaged in any securitisation of its own originated assets or the securitisation of third party assets via special purpose vehicles.

The Company monitors the market and credit risks arising from its securitisation positions in the similar manner as those of non-securitisation trading positions. Refer to the Company's risk governance and control framework discussion in the previous sections.

In addition, the Company adopts RBC's Trading Book Securitisation Framework, which requires:

- a comprehensive understanding of the risk characteristics of its individual securitisation exposures as well as the risk characteristics of the pools underlying its securitisation exposures;
- access performance information on the underlying pools on an on-going basis in a timely manner, including exposure type, percentage of loans past due, default rate, prepayment rates, loans in foreclosure, property type, occupancy, average credit score or other measures of creditworthiness, average loan-to-value ratio and industry and geographic diversifications;
- a thorough understanding of all structural features of a securitisation transaction that would materially impact the performance of the Company's exposures to the transactions, such as the contractual waterfall and waterfall-related triggers, credit enhancement, liquidity enhancements, market value triggers, and deal-specific definitions of default.

7.1.2 Risk Profile

As at 31 October 2021, the Company had a total exposure of £555 million in relation to the securitisation positions, resulting in own funds requirement of £15 million using the Standardised calculation. Detailed analysis on the securitisation trading and banking book positions are included in the tables below.

Table 35: Exposures by underlying exposure type

As at 31 October 2021			
£'000			
Exposure Type	Exposure	Risk-weighted Exposure	Capital Requirement
<i>Traditional securitisation</i>			
Residential mortgages	58	12	1
Credit card receivables	54,771	11,151	892
Consumer loans	200,000	161,510	12,921
Other assets	300,000	8,703	696
	554,829	181,376	14,510

Table 36: Securitisation exposures by seniority

As at 31 October 2021			
£'000			
Tranche	Exposure	Risk-weighted Exposure	Capital Requirement
Senior	382,229	69,186	5,535
Mezzanine	172,600	112,190	8,975
First loss	-	-	-
	554,829	181,376	14,510

Table 37: Securitisation exposures by risk weighting

As at 31 October 2021			
£'000			
Risk Weighting	Exposure	Risk-weighted Exposure	Capital Requirement
<i>Exposures rated by ECAIs</i>			
10%	300,000	8,703	696
20%	54,829	11,163	893
65%	27,400	49,320	3,946
95%	-	-	-
180%	172,600	112,190	8,975
	554,829	181,376	14,510
<i>Exposures not rated by ECAIs</i>			
1250%	-	-	-
Total	554,829	181,376	14,510

The Company uses the following three ECAIs in assigning the appropriate risk weights for the securitisation positions held:

- Standard & Poor's
- Moody's and
- Fitch

8 SUMMARY OF RELEVANT ACCOUNTING POLICIES

Recognition and measurement of financial instruments

Trading securities include all securities that are classified as FVTPL by nature and securities designated as FVTPL. Obligations to deliver trading securities sold but not yet purchased are recorded as liabilities and carried at fair value. Realised and unrealised gains and losses on these securities are generally recorded as Trading revenue in Non-interest income. Dividends and interest income accrued on interest bearing and trading securities are recorded in Interest income. Interest and dividends accrued on interest-bearing and equity securities sold short are recorded in Interest expense.

Investment securities include all securities classified as FVOCI and amortised cost. All investment securities are initially recorded at fair value and subsequently measured according to the respective classification.

Investment securities carried at amortised cost are measured using the effective interest method, and are presented net of any allowance for credit losses, calculated in accordance with the Company's policy for Allowance for credit losses, as described below. Interest income, including the amortisation of premiums and discounts on securities measured at amortised cost are recorded in Net interest income. Impairment gains or losses recognised on amortised cost securities is recorded in Provision for credit losses. When a debt instrument measured at amortised cost is sold, the difference between the sale proceeds and the amortised cost of the security at the time of the sale is recorded as a Net gains/ (losses) on derecognition of financial assets measured at amortised cost.

Debt securities carried at FVOCI are measured at fair value with unrealised gains and losses arising from changes in fair value included in Other components of equity. Impairment gains and losses are included in Provision for credit losses and correspondingly reduce the accumulated changes in fair value included in Other components of equity. When a debt instrument measured at FVOCI is sold, the cumulative gain or loss is reclassified from Other components of equity to Income Statement.

Equity securities carried at FVOCI are measured at fair value. Unrealised gains and losses arising from changes in fair value are recorded in Other components of equity and not subsequently reclassified to profit or loss when realised. Dividends from FVOCI equity securities are recognised in Interest income.

Loans are debt instruments recognised initially at fair value and are subsequently measured in accordance with the Classification of financial assets policy provided above. The majority of the loans are carried at amortised cost using the effective interest method, which represents the gross carrying amount less allowance for credit losses.

Interest on loans is recognised in Interest income using the effective interest method. The estimated future cash flows used in this calculation include those determined by the contractual term of the asset and all fees that are considered to be integral to the effective interest rate. Also included in this amount are transaction costs and all other premiums or discounts. Fees that relate to activities such as originating, restructuring or renegotiating loans are deferred and recognised as Interest income over the expected term of such loans using the effective interest method.

For loans carried at amortised cost or FVOCI, impairment losses are recognised at each balance sheet date in accordance with the three-stage impairment model outlined 5.3.2.

De-recognition of financial assets

Financial assets are derecognised from the Balance Sheet when the contractual rights to the cash flows from the assets have expired, when the Company retains the rights to receive the cash flows of the assets but assume an obligation to pay those cash flows to a third party subject to certain pass-through requirements or when the contractual rights to receive the cash flows and substantially all of the risk and rewards of the assets have been transferred. When the Company retains substantially all of the risks and rewards of the transferred assets, the transferred assets are not derecognised from the Balance Sheet and are accounted for as secured financing transactions. When the Company neither retains nor transfers substantially all risks and rewards of ownership of the assets, the Company derecognises the assets if control over the assets is relinquished. If the Company retains control over the transferred assets, the Company continues to recognise the transferred assets to the extent of its continuing involvement.

Management's judgement is applied in determining whether the contractual rights to the cash flows from the transferred assets have expired or whether the Company retains the rights to receive cash flows on the assets but assumes an obligation to pay those cash flows. The Company derecognises transferred financial assets if it transfers substantially all the risk and rewards of ownerships assets.

When assessing whether it has transferred substantially all of the risk and rewards of the transferred assets, management considers the entity exposure before and after the transfer with the variability in the amount and timing of the net cash flows of the transferred assets. In transfers that the Company retains the servicing rights, management has applied judgement in assessing the benefits of servicing against market expectations. When the benefits of servicing are greater than fair market value, a servicing asset is recognised in Other assets in the Balance Sheet. When the benefits of servicing are less than fair market value, a servicing liability is recognised in Other liabilities in the Balance Sheet.

9 OPERATIONAL RISK

The Company has adopted the Basic Indicator Approach to calculate the own funds requirement for operational risk. As at 31 October 2021, the own funds requirement for operational risk is £70.5 million (2020: £70.4 million).

10 NON-TRADING BOOK EQUITY EXPOSURES

The Company holds a small equity portfolio within its non-trading book in order to maintain its memberships with a number of clearing houses and exchanges in Europe. The Company has no intention of actively trading these equities for short term profit making purposes.

This equity portfolio has been disclosed as Investments - Equity securities in the Company's audited financial statements in accordance to IFRS. The Company measures this equity portfolio at fair value with unrealised gains and losses arising from changes in fair value are included in Other components of equity. Changes in foreign exchange rates are recognised in Other components of equity. When the security is sold, the cumulative gain or loss recorded in Other components of equity is closed to Retained earnings. Dividend and interest income accruing on Investments – Equity securities are recorded in net interest income.

As at 31 October 2021, the Company had a total OCI reserve of £48.1 million (2020: £46.6 million) arising from the non-trading book equity exposures. This OCI reserve has been fully included in the Company's CET1 Capital since 1 January 2015.

Table 38: Non-trading book equity exposures

£'000	31 October 2021	31 October 2020
	Unlisted	Unlisted
As at 1 November		
Cost	1,075	1,075
Accumulated unrealised gains	58,795	47,334
	<u>59,870</u>	<u>48,409</u>
Realised gains/(losses)	-	-
Unrealised gains/(losses)	3,692	11,460
	<u>63,562</u>	<u>59,870</u>
Accumulated unrealised gains	62,487	58,795
Less: Deferred tax	(14,434)	(12,171)
Reserve	<u>48,052</u>	<u>46,624</u>

11 INTEREST RATE RISK IN THE BANKING BOOK

Interest Rate Risk in the Banking Book (IRRBB) arises from interest rate basis and duration mismatches between assets and liabilities.

RBCEL's IRRBB is governed by Royal Bank of Canada's interest rate risk policies which define the acceptable limits within which risks to Economic Value of Equity (EVE) and Net Interest Income (NII) over a 12-month time horizon are to be contained.

RBCEL's limit framework is maintained by Corporate Treasury and Group Risk Management which jointly set maximum NII and EVE sensitivity on an entity and business segment level basis. Reporting of IRRBB against this limit framework is owned by Financial Control.

RBCEL's has limited tolerance for risks arising from Interest Rate Risk in the Banking Book (IRRBB). The majority of transactions are priced relative to short term interbank rates (resetting either monthly or quarterly). This can lead to some interest rate gaps in the very short end of the curve (1m v 3m) however RBCEL's IRRBB risk remains negligible.

12 LIQUIDITY RISK

12.1 DEFINITION OF LIQUIDITY RISK

Liquidity risk is the risk that the Company is unable to generate or obtain sufficient liquidity in a cost-effective manner to meet contractual and contingent commitments as they fall due. Liquidity management activities are designed to safeguard RBCEL against stresses, and to ensure the safety and soundness of the organisation.

Liquidity risk arises from mismatches in the timing and/or the value of on-balance sheet and off-balance sheet positions. Timing mismatches between the effective maturity of the Company's assets and liabilities, or unexpected draws from on and off-balance sheet commitments, create liquidity, or cash flow gaps. Differences in values of assets in comparison to repayment obligations can also create cash flow gaps. If the sources of cash (liquid assets / funding) are not available to meet these cash flow requirements, there is potential for a liquidity event to adversely impact the Company.

External or internal stress events have the potential to amplify liquidity mismatches and create adverse liquidity outcomes. For example, losses from credit, market, or operational risk events that negatively impact the Company's capital base can have an impact on the real or perceived credit quality of the Company, which can result in a loss of funding. Thus, liquidity risk is considered a "consequential" risk and must be managed in an integrated manner with credit, market, operational and other relevant risks.

12.2 GOVERNANCE AND FRAMEWORK

Ultimate responsibility for managing liquidity risk resides with the Company's Board. The Board is tasked with ensuring that an effective systems and controls framework is in place for business activity, risk management and capital and liquidity risk management.

The Board ensures that effective governance arrangement and control frameworks are in place for liquidity risk, enabling it to be adequately overseen, assessed and managed. The role of the Board for liquidity risk, alongside monitoring and oversight of the liquidity position of the Company, includes approval of:

- Liquidity Risk Policy and Framework;
- Risk Appetite Statement and Metrics;
- Recovery Plan; and
- The annual Internal Liquidity Adequacy Assessment Process (ILAAP).

Responsibility for the detailed management and oversight of liquidity risk is delegated to the RC and ALCO.

Within the Company, the risk tolerance statement is articulated through a series of limits, covering both internal and regulatory metrics. The Company's risk appetite takes direction from RBC (the parent) and includes additional aspects designed to capture locally specific risks. At the lowest level the Company employs desk limits to govern individual business, markets, products or transactions.

Key risks for the Company include a withdrawal of intragroup funding and an inability to monetise high quality liquid assets in the secured funding markets. These risks are mitigated somewhat by the regular review and extension of term intragroup funding arrangements and maintaining GBP & CHF cash deposits at central banks.

Corporate Treasury is responsible for all liquidity reporting, including ensuring completeness and accuracy of data. The Company primarily uses RBC Group strategic platforms for liquidity risk measurement and monitoring.

Reports produced by the Corporate Treasury-Liquidity Measurement Team include, but are not limited to, LCR, NSFR, Asset Encumbrance, PRA 110, ALMM and several internally defined reports designed to complement the regulatory requirements.

On a monthly basis an overview of management information is presented to the ALCO, this is also presented to the RC on a quarterly basis.

12.3 RISK PROFILE

The Company is comfortable with the level of liquidity risk within the entity and RBC enterprise. Throughout the financial year the Company remained within both internal risk appetite and regulatory limits.

The Company has in place a robust governance model with individuals empowered to make decisions that benefit the organisation without creating unnecessary risk.

At all times the Company maintains sufficient levels of short and long term funding and holds substantial high quality securities that are diverse in nature, prudently valued and regularly turned over as part of its trading activities.

Minimum liquid asset buffer requirements are defined internally through use of the Net Cash Flow Metric, an internally-defined metric that estimates net liquidity surpluses (or gaps) over specific short time horizons (7, 30, 60 days) for on-balance sheet and off-balance sheet transactions.

The metric measures the amount of potential liquidity and funding risk being taken after liquidity sources such as liquid assets have been factored in.

12.4 INDIVIDUAL LIQUIDITY ADEQUACY ASSESSMENT PROCESS

The ILAAP is the Company's internal attestation of the management and measurement of liquidity risk within the organisation, under both stressed and business as usual conditions. The ILAAP is a comprehensive document covering all aspects of liquidity risk. It is prepared annually, and approved by the Board.

Conclusions drawn from the ILAAP contribute to the risk management framework within the organisation.

13 REMUNERATION

Remuneration disclosures are made in line with RBC Europe Limited's (the "Company's") application of the qualitative and quantitative remuneration disclosures requirement under the Pillar 3 framework and the requirements of Article 450 of the Capital Requirements Regulation ("CRR")⁴. For enhanced disclosure on RBC's enterprise-wide compensation practices, please refer to RBC's proxy circular (published on March 3, 2022⁵).

For the 2021 fiscal year, the Company continued to apply the CRD IV remuneration rules in line with regulatory requirements. In 2022, the Company will be implementing the updated remuneration rules and reporting requirements under CRD V and CRR II.

13.1 CONSTITUTION AND ACTIVITIES OF THE UK HRC

The Company has a Human Resources Committee (the "UK HRC") which is responsible for the application of the compensation principles, practices and processes within all of RBC's operations on the UK mainland, except in relation to RBC Global Asset Management Ltd and BlueBay Asset Management Ltd (which are managed separately and publish separate Pillar 3 reports). The UK HRC reviews and approves the compensation policies which support the business objectives determined by the Board of Directors of the Company (the "Board") and/or senior management and take into appropriate account sound risk management practices, including long and short-term risk.

Within the authority delegated by the Board, the UK HRC is responsible for approving compensation policy and, in doing so, takes into account the pay and benefits across our Company. This includes the terms of bonus plans, other incentive plans and the individual compensation packages of Executive Directors and Senior Managers ("Senior Management"), as well as oversight of compensation for other Material Risk Takers.

The UK HRC has a specific responsibility to ensure UK-applicable group-wide policies are compliant with UK Compensation regulations which apply to each respective UK group entity, including the Company.

Each of the members of the UK HRC is a Non-Executive Director, independent of day-to-day management as defined by the standards set out by the Board. No individual is involved in decisions relating to their own compensation.

List of Non-Executive Directors who are members of the UK HRC

Members (fiscal year)	Meeting Attendance
Nicola Mumford (Chair)	6 out of 6 meetings
Tim Wade	6 out of 6 meetings
Polly Williams	6 out of 6 meetings
David Buckley	6 out of 6 meetings

During the year, the UK HRC received advice from the Company's Head of Human Resources, Head of Compliance, Chief Financial Officer and Chief Risk Officer, who provided advice on the implications of the compensation policy on risk and risk management, and on the adjustments that should be made to levels of variable compensation payable to staff, at both a pool and individual level, to take into account all relevant current and future risks.

In June 2021, the UK HRC completed its annual review of the Company's policies, standards and protocols relating to compensation.

⁴ Regulation (EU) No 575/2013

⁵ https://www.rbc.com/investor-relations/_assets-custom/pdf/2022englishproxy.pdf

External Consultants

The UK HRC did not engage consultants independent of the Company's external advisers (Linklaters LLP).

Role of the Relevant Stakeholders

The UK HRC takes full account of the Company's strategic goals in applying its compensation policy and is mindful of its duties to shareholders and other stakeholders. The UK HRC seeks to preserve shareholder value by ensuring alignment of variable compensation payouts with risk and economic performance, as well as the successful retention, recruitment and motivation of employees.

13.2 CRITERIA FOR THE IDENTIFICATION OF MATERIAL RISK TAKERS

The following criteria were applied to identify Material Risk Takers for the purposes of CRD IV, in line with the Regulatory Technical Standards set out in Commission Delegated Regulation (EU) No 604/2014 (RTS):

Employees identified by qualitative criteria include but are not limited to:

- Senior management including individuals registered with the UK regulators as holding a Senior Manager Function (SMF) such as heads of business areas
- Senior control function management including risk, compliance and internal audit and heads of human resources, information technology, legal and tax
- Staff who have authority either individually or as members of a Committee to approve or veto new products or decisions that result in market or credit risk exposures that exceed specified thresholds as provided for in the RTS

Employees identified by quantitative criteria:

- Employees awarded total compensation of €500,000 or more in the preceding financial year
- Employees within the top 0.3% of staff who have been awarded the highest total compensation in the preceding year
- Employees awarded compensation in the preceding financial year which was equal to or greater than the lowest total compensation awarded to those meeting specified qualitative criteria
- In accordance with the RTS, employees identified under the quantitative criteria were then assessed to determine if the professional activities of the employee had the potential to have a material impact on the risk profile of the Company. As required under the RTS, all regulatory notification and approval requirements on the outcomes of this assessment were completed in respect of 2021.

Additional RBC Material Risk Taker Identification Criteria:

- In addition to the criteria set out in the RTS, the Company has identified Material Risk Takers on the basis of its own criteria based on its assessment of risks beyond those specifically identified in the RTS, taking into account prudential, operational, market, credit, conduct and reputational risks

13.3 DESIGN AND STRUCTURE OF COMPENSATION FOR MATERIAL RISK TAKERS

Guided by our vision of being among the world's most trusted and successful financial institutions and our purpose of helping clients thrive and communities prosper, our approach to compensation, including executive compensation, is based on the five guiding principles set out below. The UK HRC continually evaluates the policies and procedures applicable to the Company with a view to upholding these principles:

1. Compensation action aligns with shareholder interests

- Awards vary based on absolute performance of RBC
- Mid and long terms incentives vest and pay out over time, encouraging a longer term view of increasing shareholder value

2. Compensation aligns with sound risk management principles

- Our risk management culture is reflected in our approach to compensation. Our compensation practices appropriately balance risk and reward, and align with shareholder interests
- Performance of individuals, lines of business and RBC overall is assessed on a number of measures, including adherence to risk management policies and guidelines.

3. Compensation rewards performance

- Our pay-for-performance approach rewards employees for their contributions to individual, business segment and enterprise results relative to objectives that support our business strategies for sustainable growth over short, medium and long-term horizons, which are aligned with the risk appetite of RBC.

4. Compensation enables the Company to attract, engage and retain talent

- Talented and motivated employees are essential to building a sustainable future for RBC. We offer compensation that is competitive within the markets where we operate and compete for talent.
- Compensation programs reward employees for high performance and their potential for future contribution.

5. Compensation rewards behaviours that align with RBC values and drive exceptional client experiences.

- RBC values, embedded in our Code of Conduct, form the foundation of our culture and underpin our ongoing commitment to put the needs of our clients first and deliver value to all of our stakeholders.
- Risk conduct and compliance with policies and procedures are considered in determining performance-based compensation.

The Company's compensation policies and plans align with these principles and are approved by the UK HRC. The Company's remuneration policies apply in the same way to all the branches of RBC Europe Limited.

Elements of Compensation

The employee package is made up of fixed remuneration and benefits (reward for fulfilling the job requirements) and incentive compensation designed to incentivise employees to demonstrate achievement in terms of results and behaviours, to reward them for that achievement, and to encourage them to remain with RBC.

For more highly paid employees, a proportion of an employee's total remuneration is deferred over a minimum of 3 years with at least 50% reflecting the value of RBC shares over that period.

Incentive compensation awards may be adjusted downwards or clawed back in appropriate cases (e.g., in the case of a material failure of risk management).

a) Fixed Remuneration

All Material Risk Takers receive fixed remuneration, which is most commonly paid in the form of base salary, but which may include Role Based Pay meeting the conditions of the EBA Guidelines on Sound Remuneration Policies (EBA/GL/2015/22) for certain roles and which reflects the individual's market value, skills, qualifications, relevant experience, responsibility and contribution to the Company.

Fixed pay is typically only changed to reflect a change to the role or responsibilities of the recipient or market conditions.

b) Variable Remuneration

All Material Risk Takers, other than the Independent Non-Executive Directors and overseas Board Directors, are eligible to participate in discretionary performance-based incentive schemes in respect of their role with the Company.

Performance-based annual discretionary incentives may be awarded based on the performance of the Company, the business, and the individual as detailed below. Annual incentives may consist of a mix of cash and share-linked instruments. Annual incentives for Material Risk Takers in a risk taking role are subject to review by the Chief Risk Officer Europe to ensure they adequately reflect risk and performance, and are subject to review by the UK HRC.

As part of the year-end risk adjustment process, the CFO Europe reports to the UK HRC on UK-specific financial performance by reference to metrics including revenues, Net Income After Tax, entity profit, accounting profit, prudential valuation adjustment

and enterprise and business economic profit. If business platform or business unit economic profit is negative or trend year over year is misaligned to the UK bonus pool trend year-over-year, additional strategic, financial and risk related factors are also considered.

The amount of variable compensation to be awarded to employees is appropriately adjusted for risk in accordance with the Company's UK Compensation Risk and Performance Adjustment Process. Key considerations that are taken into account in the risk adjustment process include financial measures such as revenue, Net Income After Tax, Economic Profit and regulatory capital and non-financial risk factors such as conduct and credit, market and operational risk exposure against risk appetite. Upon completion of the review, adjustments for risk may be recommended for consideration in the approval of final variable compensation⁵.

In October 2014 RBC Europe Limited obtained unanimous approval from its sole shareholder to operate a maximum ratio between the fixed and variable components of remuneration of 200% of the fixed component of the total remuneration for each individual as required under the UK remuneration rules and Article 91(1)(g) of CRD IV. At its meeting in June 2021, UK HRC resolved not to recommend a change to that ratio to the shareholder.

All compensation plans contain minimum compensation deferral requirements for Material Risk Takers in line with the UK remuneration rules and applicable European guidelines, as well as compensation risk and performance adjustment processes. Deferral requirements vary by plan and arrangements are typically based on the size of bonus, type of compensation plan and the individual's role. Deferral requirements are summarised in the Table below

Deferral requirements

All MRTs regardless of bonus plan	Minimum 40% deferral (60% deferral if total variable compensation is £500,000 or more)
RBC Capital Markets Compensation Plan and the RBC Investor and Treasury Services Incentive Programme	The Plan contains a grid of deferral requirements starting at 30% when the bonus exceeds £75,000 and rising to 65% if the bonus is £3mm or more.
RBC Discretionary Plans	These Plans award short-term incentives (STI) and mid-term incentives (MTI) which are equity-linked. The ratio of STI and MTI varies from individual to individual and is typically based on position level, and the MTI component increases with seniority.
RBC Wealth Management Incentive Compensation Plan (British Isles)	For Executives and Senior Leaders, the Plan contains a grid of deferral requirements starting at 25% (for Position Level 5) to 50% (for the EVP level).

At least 50% of variable compensation for MRTs is delivered in equity-linked awards which are subject to an appropriate post-vesting retention period of at least 12 months, in line with the EBA Guidelines on Sound Remuneration Policies (save in circumstances where the deferral period exceeds 5 years, where, in accordance with the EBA Guidelines, a retention period of no less than 6 months for the deferred part is permitted for employees who do not form part of the senior management).

Depending on the compensation plan, deferred compensation will vest as follows, in line with UK remuneration rules:

⁵ At its meetings in November, UK HRC received updates from the Chief Human Resources Officer, RBC on primary and secondary risk adjustment factors considered by the Compensation Management Risk Oversight Committee in its review of bonus pool funding at enterprise level.

MRT deferred compensation vesting schedule

	<i>Year 3</i>	<i>Year 4</i>	<i>Year 5</i>	<i>Year 6</i>	<i>Year 7</i>
MRTs who perform a PRA Senior Manager Function	20%	20%	20%	20%	20%

	<i>Year 1</i>	<i>Year 2</i>	<i>Year 3</i>	<i>Year 4</i>	<i>Year 5</i>
MRTs who meet the criteria of Risk Managers	20%	20%	20%	20%	20%
Other MRTs – Capital Markets or Investor & Treasury Services	25%	25%	50%	-	-
Other MRTs – other Business Platforms	-	-	100%	-	-

Variable compensation for RBC Europe Limited is awarded through the following plans which each provide an annual cash bonus and a deferred component if the Company's deferral requirements are met or deferral is otherwise required (e.g. for a Material Risk Taker):

- RBC Capital Markets Compensation Plan
- RBC Investor and Treasury Services Incentive Programme
- RBC Discretionary Plans
- RBC Wealth Management Incentive Compensation Plan (British Isles)
- RBC Wealth Management UK Sales & Relationship Management Compensation Plan

Shareholding Requirement

RBC operates a Share Ownership Requirement which requires Managing Directors in Capital Markets to hold at least 1.5 times their 3-year average base salary in Royal Bank Common Shares.

Remuneration of Control Functions

RBC's enterprise Policy on Compensation Risk Management states that performance measures for senior employees responsible for financial and risk control activities will be based on the achievements and objectives of the functions, and their compensation will be determined independently from the performance of the specific business areas they support, therefore avoiding any potential conflicts of interest. Employees who fall under this arrangement include senior employees in Compliance, CFO Group, Group Risk Management, Internal Audit and Human Resources. Global Function Heads and/or the Function Operating Committee Members will continue to review and approve the individual performance of these employees against established objectives, which are independent of the performance of the business areas that they oversee. Remuneration for employees engaged in control functions is reviewed regularly for market alignment to ensure that remuneration levels are competitive.

13.4 THE LINK BETWEEN PAY AND PERFORMANCE FOR MATERIAL RISK TAKERS

Variable compensation plans reward employees on the basis of a number of factors, including individual, business and enterprise results relative to established performance objectives that are aligned with the risk appetite of RBC. A significant portion of performance-based pay is deferred in the form of equity incentive awards (linked to RBC's share price) in order to align compensation with the risk time horizon and motivate employees to generate longer-term value for shareholders and remain accountable for decisions with long tail risk. To create a clear relationship between pay and performance, employees have an opportunity to earn higher compensation for outstanding performance, and conversely, earn less compensation when RBC, a business segment and/or individual performance falls below expectations.

Incentive awards take into account firm-wide, business unit and individual financial and non-financial factors. Financial factors include the performance of RBC, its global business segments and regional operating subsidiaries. Individual performance is assessed based on the employee's contribution to the overall performance of their business or function, the achievement of individual performance objectives and performance against the Company's Leadership Model and Code of Conduct. Where appropriate (e.g., where firm-wide or entity performance is weak or in a net loss position or in the case of a significant failure of risk management) bonus pools may be reduced to zero. When determining the size of the bonus pool, financial measures such as revenues, Net Income After Tax, the compensation ratio (total compensation as a percentage of revenues), regulatory and economic capital, and economic profit are considered depending on the plan and business area.

Non-financial measures considered in the discretionary bonus evaluation process include the following:

- Adherence to our Code of Conduct. RBC's Code of Conduct (Code) promotes standards of ethical behaviour that applies to all employees globally. Our Code fosters an open environment in which questions and concerns may be brought forward. It creates a frame of reference for dealing with sensitive and complex issues, and provides for accountability if standards of conduct are not upheld. All employees are expected to adhere to our Code, and failure to do so through unethical or non-compliant behaviours may result in a disciplinary sanction up to and including immediate termination of employment. All employees receive Code of Conduct training and testing on joining RBC and every year thereafter
- Compliance with a full range of risk management policies specific to individual job requirements as outlined in employee Performance Management Documents
- Assessment of key behaviours, which are part of the RBC Global Performance Management process, and typically include the obligation to:
 - Abide by the letter and spirit of rules and procedures established by regulators
 - Follow all relevant internal policies and procedures including, but not limited to, trading and position limits and standing orders
 - At all times, act in the best interests of RBC and its clients
 - Escalate, on a timely basis, any areas of material concern related to any of the above
 - Lead by example so that direct reports adopt similar high standards
- Reports from control functions, including those from Internal Audit, Compliance (regulatory gaps, trades beyond excess limits), and Group Risk Management regarding operational, market and credit risks, among others
- Assessment of accountabilities and detailed action plans to implement and monitor changes required to close the gaps identified during risk management or internal audit reviews

Employees who are not meeting non-financial performance standards for their role are subject to a corrective action process, which can include either a significant reduction in bonus amounts or termination of employment.

Furthermore, prior to vesting, Material Risk Takers' deferred compensation is subject to review under the Company's risk and performance adjustment process whereby actual risk and performance outcomes are reviewed and if materially different from assessments made when deferred compensation was granted, or if misconduct has occurred, then deferred compensation may be reduced or forfeited in full.

All bonus awards made to Material Risk Takers under the Company's variable compensation schemes are subject to forfeiture and clawback under the RBC Forfeiture and Clawback Policy for Code Material Risk Takers. A reduction may be applied, in summary, in cases of misconduct, a material failure of risk management or if there is a material downturn in financial performance. Since January 2015, all variable compensation awards made to Material Risk Takers are subject to clawback for a seven year period from the date of award as required under UK remuneration rules. This can be extended to ten years in relation to PRA-designated Senior Management Functions where there is an outstanding internal or external investigation at the end of the seven year period which could result in the application of clawback. Clawback can be applied in cases of misconduct or a material failure of risk management.

Guaranteed variable remuneration is only awarded in exceptional circumstances, such as senior control functions roles, business critical roles and strategic hires and then only for a maximum of the first 12 months of employment.

The Company provides severance payments to fulfil its statutory obligations and to support the transition of employees away from their employment with RBC, in circumstances where there is an early termination of their employment.

Table 39: Aggregate remuneration awarded during the financial year

£'000,000

Remuneration Amount	Management Body		Senior Management	Investment Banking	Independent Control Functions	Corporate Functions	All Other Business Areas	
	Managerial Function	Supervisory Function						
Fixed remuneration	Number of employees	2	7	24	99	13	7	0
	Total fixed remuneration	1.25	0.65	10.20	28.72	2.28	1.58	0.00
	Of which: cash-based	1.25	0.65	10.20	28.72	2.28	1.58	0.00
	Of which: deferred	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Of which: shares or other share-linked instruments	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Of which: deferred	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Of which: other forms	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Of which: deferred	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Variable remuneration	Number of employees	2	0	24	89	11	7	0
	Total variable remuneration	2.00	0.00	15.30	29.97	1.64	1.43	0.00
	Of which: cash-based	0.48	0.00	4.06	11.16	0.85	0.73	0.00
	Of which: deferred	0.05	0.00	0.60	2.77	0.32	0.25	0.00
	Of which: shares or other share-linked instruments	1.52	0.00	11.24	18.81	0.79	0.70	0.00
	Of which: deferred	1.08	0.00	7.94	11.48	0.32	0.30	0.00
	Of which: other forms	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Of which: deferred	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total remuneration	3.25	0.65	25.50	58.69	3.92	3.01	0.00	

Table 40: Deferred Remuneration⁶

£'000,000

Deferred and retained remuneration	Total amount of outstanding deferred remuneration			Of which: Total amount of outstanding deferred and retained remuneration exposed to ex post explicit and/or implicit adjustment	Total amount of amendment during the year due to ex post explicit adjustments	Total amount of deferred remuneration paid out in the financial year
	vested	unvested	Total			
Management Body	0.63	4.71	5.34	5.34	0.00	0.45
Cash	0.00	0.12	0.12	0.12	0.00	0.00
Shares	0.63	4.59	5.22	5.22	0.00	0.45
Cash-linked instruments	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00
Investment Banking	39.98	38.10	78.08	78.08	0.00	18.78
Cash	2.26	3.23	5.48	5.48	0.00	2.12
Shares	37.72	34.87	72.59	72.59	0.00	16.66
Cash-linked instruments	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00
Independent Control Functions	0.16	3.75	3.91	3.91	0.00	1.00
Cash	0.00	0.85	0.85	0.85	0.00	0.13
Shares	0.16	2.90	3.07	3.07	0.00	0.87
Cash-linked instruments	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00
Corporate Functions	0.08	3.06	3.14	3.14	0.00	0.88
Cash	0.00	0.65	0.65	0.65	0.00	0.13
Shares	0.08	2.41	2.49	2.49	0.00	0.75
Cash-linked instruments	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00
All Other Business Areas	0.58	3.95	4.53	4.53	0.00	1.23
Cash	0.00	0.31	0.31	0.31	0.00	0.06
Shares	0.58	3.65	4.22	4.22	0.00	1.17
Cash-linked instruments	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00
Total	41.43	53.57	95.00	95.00	0.00	22.34

⁶ Note: Amendments to the corresponding Deferred Remuneration table have been made to our FY20 and FY19 Pillar 3 documents

Table 41: Special Payments

£'000,000

Special payments	Guaranteed bonuses		Sign-on awards		Severance payments	
	Number of employees	Total amount	Number of employees	Total amount	Number of employees	Total amount
Management Body	0	0.00	0	0.00	0	0.00
Investment Banking	1	0.40	1	0.19	2	0.26
Independent Control Functions	0	0.00	0	0.00	1	0.07
Corporate Functions	0	0.00	0	0.00	0	0.00
All Other Business Areas	0	0.00	0	0.00	0	0.00

Table 42: MRTs with Total Remuneration above One Million Euros

Total Compensation Band (EUR)	Number of individuals
1,000,000 < 1,500,000	12
1,500,000 < 2,000,000	8
2,000,000 < 2,500,000	5
2,500,000 +	3

14 APPENDICES

14.1 APPENDIX 1: BOARD MEMBERSHIP Current Independent Non-Executive Directors

Director	Role	Biography	Number of Directorships (excluding RBCEL)
David Buckley (Residency: UK)	Chair of RBCEL Board Member of Audit, Risk, Human Resources and Nomination Committees	David Buckley is the current RBCEL Board Chair and a member of the Board Committees. He has worked in the financial services sector for 30 years with extensive experience both as a senior executive across a number of financial institutions as well as a range of non-executive director positions. Mr. Buckley's non-executive experience includes roles at CIBC World Markets plc and Redwood Bank (non-executive Chair). Mr Buckley's executive career included senior management roles at Goldman Sachs International where he was the International Head of the Global Banking Group, London and Morgan Stanley International where he was International Treasurer and CEO of Morgan Stanley Bank International.	4
Nicola Mumford (Residency: UK)	Chair of Human Resources Committee and Nomination Committee Member of Audit Committee and Risk Committee	Ms Mumford is a qualified solicitor who spent her executive career within private practice where she became the Senior Director and Managing Partner of the London Office of an international law firm. Her role as a Senior Litigation Partner in the Dispute Resolution Group including advising high profile entities including financial services organisations. As a non-executive, Ms Mumford has particular expertise in talent management and remuneration enabling her to assist RBC as Chair of the Human Resources Committee of RBC Europe Limited.	0
Polly Williams (Residency: UK)	Chair of Risk Committees Member of Audit, Human Resources Committee and Nomination Committee	Ms Williams is a chartered accountant and her executive career included becoming a partner of one of the "Big Four" consultancy practices in the financial sector practice. Following her executive career, Ms Williams has held a number of non-executive directorships in and out of the financial service industry including at both publicly listed and private organisations. She has accountancy and industry experience and particular expertise in chairing of Audit and Risk Committees.	4
Tim Wade (Residency: UK)	Chair of Audit Committee Member of Risk, Human Resources and Nomination Committees	Mr Wade is a chartered account. He has had a successful executive career in the financial services industry including as a partner at a large international consultancy practice and CEO and CFO roles in house at financial institutions. As a non-executive director Mr Wade has held a number of directorships at large publicly listed and private organisations within insurance and banking. He has particular expertise in chairing Audit and Risk Committees.	2

Current Shareholder Representative Non-Executive Directors

Director	Role	Biography	Number of Directorships (excluding RBCEL)
Troy Maxwell (Residency: Canada)	Chief Operating Officer of RBC Capital Markets	<p>Troy Maxwell is Chief Operating Officer of RBC Capital Markets with global responsibility for all operational and administrative matters of the firm, including optimising cost base management and financial resources, and leading the response to regulatory change. Previously, he was Executive Vice President of Finance and Chief Financial Officer of RBC Capital Markets and Technology & Operations, where he oversaw all finance services to RBC's wholesale business and technology and operations platform.</p> <p>Prior to joining RBC, Troy was Chief Financial Officer of CIBC World Markets and a partner at PricewaterhouseCoopers LLP, where he led the financial institutions and corporate treasury risk management consulting and advisory business.</p> <p>Troy is a Chartered Professional Accountant, and holds an Honours BA and a Master's Degree in Accounting from the University of Waterloo.</p>	2
Nadine Ahn (Residency: Canada)	Chief Financial Officer, RBC	<p>Nadine Ahn was recently appointed as the Chief Financial Officer for RBC and a member of the Group Executive. She previously held the role as Senior Vice-President, CFO Capital Markets, RBC and had global accountability for financial governance, control, valuations and performance management for Investor & Treasury Services and Capital Markets, and is a member of Operating Committees for both businesses. She is also a member of the CAO & CFO Operating Committee and is based in Toronto, Canada.</p>	1
Graeme Hepworth (Residency: Canada)	Chief Risk Officer, RBC	<p>Graeme Hepworth is the Chief Risk Officer for RBC and a member of the Group Executive. In his role he is responsible for setting the strategic direction for risk management, consistent with RBC's strategic vision and risk appetite. Together with the members of RBC Group Executive, he is accountable for overall management of RBC, the promotion of strong risk conduct, prudent enterprise risk management practices, and creating an organization capable of sustainable value creation for its shareholders. Prior to this role, he has held a number of risk management roles within RBC in Canada, the US and UK.</p> <p>Graeme Hepworth earned a Bachelor of Arts in Mathematics and Economics from McGill University in Montreal, Quebec, Canada and subsequently completed his Masters of Mathematics from the University of Waterloo at Waterloo, Ontario, Canada. He is also a CFA charter holder.</p>	4

Executive Directors

Director	Role	Biography	Number of Directorships (excluding RBCEL)
Peter Dixon (Residency: UK)	Chief Financial Officer, Europe	<p>Mr Dixon is the CFO, Europe and is based in London. Prior to joining RBC, Mr Dixon held a number of senior finance roles within other international investment banking organisations and has experience of working in other jurisdictions including the US, Canada and Ireland. Mr Dixon is a qualified chartered accountant.</p> <p>Based in London, Mr Dixon is a member of the European Capital Markets Executive Committee.</p>	2
David Thomas (Residency: UK)	CEO, RBC Europe Limited	<p>Mr Thomas is the CEO of RBC Europe Limited, responsible for leading all aspects of the business in the region, including strategy execution and effective governance. He is a member of the RBC Capital Markets Global Operating Committee and chairs the European Capital Markets Executive Committee.</p> <p>Since joining RBC, Mr Thomas has held a number of both global and regional mandates in Technology, Operations, Risk Management and Compliance. He is a member of the Corporate Partnerships Board for Great Ormond Street Hospital.</p>	4

14.2 APPENDIX 2: COUNTERCYCLICAL BUFFER DISCLOSURE

Geographical distribution of credit exposures relevant for the calculation of the countercyclical capital buffer

As at 31 October 2021

£'000

Row		General Credit Exposures		Trading Book Exposures		Securitisation Exposures		Own Funds Requirements			Own Funds Requirements Weight	Countercyclical Capital Buffer Rate	
		Exposure Value for SA	Exposure Value for IRB	Sum of long and short positions of trading book exposures for SA	Value of trading book exposures for internal models	Exposure Value for SA	Exposure Value for IRB	of which: General credit exposures	of which: Trading book exposures	of which: Securitisation exposures			Total
		010	020	030	040	050	060	070	080	090	100	110	120
010	Breakdown by Country:												
	ANGUILLA	945	-	2,915	-	-	-	76	233	-	309	0.06%	0.00%
	AUSTRALIA	3,013	-	391	-	54,771	-	241	889	876	2,006	0.40%	0.00%
	AUSTRIA	-	-	215	-	-	-	-	215	-	215	0.04%	0.00%
	BELGIUM	92,510	-	7,706	-	-	-	7,359	3,059	-	10,418	2.06%	0.00%
	BERMUDA	-	-	-	-	-	-	-	4	-	4	0.00%	0.00%
	BRAZIL	-	-	-	-	-	-	-	3	-	3	0.00%	0.00%
	CANADA	120,217	-	42,404	-	-	-	3,188	1,546	-	4,735	0.94%	0.00%
	CAYMAN ISLANDS	3,875	-	386,791	-	-	-	310	31,160	-	31,470	6.22%	0.00%
	CHILE	-	-	-	-	-	-	-	-	-	-	0.00%	0.00%
	CHINA	-	-	-	-	-	-	-	3	-	3	0.00%	0.00%
	CURACAO	-	-	-	-	-	-	-	-	-	-	0.00%	0.00%
	CZECH REPUBLIC	40,327	-	-	-	-	-	1,291	2,700	-	3,991	0.79%	0.50%
	DENMARK	-	-	-	-	-	-	-	1,292	-	1,292	0.26%	0.00%
	FINLAND	330,796	-	-	-	-	-	4,102	1,651	-	5,752	1.14%	0.00%
	FRANCE	107,684	-	24,630	-	-	-	1,970	18,125	-	20,095	3.97%	0.00%
	GERMANY	222,138	-	9,518	-	-	-	8,821	10,294	-	19,114	3.78%	0.00%
	GUERNSEY	226,251	-	-	-	-	-	1,609	689	-	2,298	0.45%	0.00%
	HONG KONG	4,226	-	-	-	-	-	338	3	-	341	0.07%	1.00%
	INDIA	-	-	-	-	-	-	-	5	-	5	0.00%	0.00%
	INDONESIA	-	-	-	-	-	-	-	2	-	2	0.00%	0.00%
	IRELAND	404,598	-	165,450	-	-	-	10,279	16,127	-	26,407	5.22%	0.00%
	ISLE OF MAN	60,642	-	-	-	-	-	2,599	408	-	3,006	0.59%	0.00%
	ISRAEL	-	-	1	-	-	-	-	-	-	-	0.00%	0.00%
	ITALY	4,220	-	2,744	-	-	-	338	5,569	-	5,907	1.17%	0.00%
	JAPAN	-	-	156,298	-	-	-	-	10,352	-	10,352	2.04%	0.00%
	JERSEY	411,493	-	-	-	200,000	-	14,246	4,803	12,921	31,970	6.31%	0.00%
	KOREA, REPUBLIC OF	-	-	-	-	-	-	-	87	-	87	0.02%	0.00%
	LIECHTENSTEIN	-	-	-	-	-	-	-	115	-	115	0.02%	0.00%
	LUXEMBOURG	1,433,791	-	53,935	-	300,000	-	16,768	11,361	2,400	30,529	6.03%	0.50%
	MALAYSIA	-	-	-	-	-	-	-	1	-	1	0.00%	0.00%
	MEXICO	-	-	-	-	-	-	-	579	-	579	0.11%	0.00%
	MOROCCO	1,000	-	-	-	-	-	28	-	-	28	0.01%	0.00%
	NETHERLANDS	468,148	-	27,383	-	-	-	13,933	26,089	-	40,022	7.90%	0.00%
	NEW ZEALAND	-	-	-	-	-	-	-	106	-	106	0.02%	0.00%
	NORWAY	4,683	-	105	-	-	-	306	623	-	928	0.18%	1.00%
	OMAN	1,527	-	-	-	-	-	43	-	-	43	0.01%	0.00%
	PHILIPPINES	-	-	-	-	-	-	-	-	-	-	0.00%	0.00%
	POLAND	62,682	-	-	-	-	-	725	159	-	884	0.17%	0.00%
	PORTUGAL	1,182	-	-	-	-	-	-	100	-	100	0.02%	0.00%
	ROMANIA	-	-	-	-	-	-	-	4	-	4	0.00%	0.00%
	RUSSIAN FEDERATION	-	-	-	-	-	-	-	1	-	1	0.00%	0.00%
	SAUDI ARABIA	175,444	-	-	-	-	-	3,442	-	-	3,442	0.68%	0.00%
	SINGAPORE	6,322	-	13,284	-	-	-	175	1,063	-	1,238	0.24%	0.00%
	SLOVAKIA	3,411	-	-	-	-	-	96	148	-	244	0.05%	1.00%
	SOUTH AFRICA	18,681	-	-	-	-	-	299	1	-	300	0.06%	0.00%
	SPAIN	166,648	-	-	-	-	-	4,816	6,021	-	10,837	2.14%	0.00%
	SWEDEN	7,072	-	16,996	-	-	-	81	7,359	-	7,440	1.47%	0.00%
	SWITZERLAND	75,037	-	78,292	-	-	-	6,003	4,862	-	10,865	2.15%	0.00%
	TAIWAN, PROVINCE OF CHINA	-	-	-	-	-	-	-	5	-	5	0.00%	0.00%
	THAILAND	-	-	-	-	-	-	-	-	-	-	0.00%	0.00%
	TURKEY	-	-	-	-	-	-	-	-	-	-	0.00%	0.00%
	UNITED ARAB EMIRATES	25,950	-	-	-	-	-	727	91	-	817	0.16%	0.00%
	UNITED KINGDOM	2,352,705	-	277,791	-	-	-	101,576	75,483	-	177,059	34.97%	0.00%
	UNITED STATES	154,305	-	135,676	-	-	-	6,278	30,288	-	36,566	7.22%	0.00%
	VIRGIN ISLANDS, BRITISH	113,024	-	12,185	-	-	-	3,280	1,111	-	4,392	0.87%	0.00%
		7,104,548	-	1,414,491	-	554,771	-	215,341	274,791	16,197	506,329	100.00%	

Total risk exposure amount	8,912,664
Institution specific countercyclical capital buffer rate	0.0369%
Institution specific countercyclical capital buffer requirements	3,286

