Covered Bonds follow-up Rating

Luminor Bank A.S.

Mortgage Covered Bond Program

Creditreform ⊆ Rating

Rating Object	Rating Information	
Luminor Bank A.S., Mortgage Covered Bond Program	Rating / Outlook : AAA / Stable	Type: Rating Update (unsolicited)
Type of Issuance: Mortgage Covered Bond under Estonian law Issuer: Luminor Bank A.S.	Rating Date: Rating Renewal until: Maximum validity:	08.01.2024 Withdrawal of the rating 01.01.2050
LT Issuer Rating: A (Luminor Bank A.S.) ST Issuer Rating: L2 Outlook Issuer: Stable	Rating Methodology :	CRA "Covered Bond Ratings"

Program Overview			
Nominal value	EUR 1,750 m.	WAL maturity covered bonds	2.94 Years
Cover pool value	EUR 3,090 m.	WAL maturity cover pool	12.16 Years
Cover pool asset class	Mortgages	Overcollateralization (nominal/committed)	76.57%/ 5.00%
Repayment method	Soft Bullet	Min. overcollateralization	5.00%
Legal framework	Covered Bond Act	Covered bonds coupon type	Fix (57.14%), Floating (42.86%)

Cut-off date Cover Pool information: 30.09.2023.

Rating Action

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This follow-up report covers our analysis of the mortgages covered bond program issued under Estonian law by Luminor Bank A.S. ("Luminor Bank"). The total covered bond issuance at the cut-off date (30.09.2023) had a nominal value of EUR 1,750.00 m, backed by a cover pool with a current value of EUR 3,089.96 m. This corresponds to a nominal overcollateralization of 76.57%. The cover assets include mortgage obligations in Estonia, Latvia and Lithuania.

Taking into consideration the issuer rating, our analysis of the regulatory framework, liquidity-and refinancing risks, as well as our cover pool assessment and results of the cash flow analysis, Creditreform Rating AG ("Creditreform Rating" or "CRA") upgrades the covered bond program from AA+ to an AAA rating. The AAA rating represents the highest level of credit quality and the lowest investment risk. The rating upgrade is based on the improvement of the issuer rating.

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Neuss, Germany

Key Rating Findings

- + Covered Bonds are subject to strict Estonian legal framework for covered bonds
- Covered bonds are backed by the appropriate cover asset class
- Covered bond holders have recourse to the issuer
- + Excellent capitalization of the issuer
- Significant maturity mismatches between covered bonds and cover assets

Luminor Bank A.S. Mortgage Covered Bond Program

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Table1: Overview results

Risk Factor	Result
Issuer rating	A (rating as of 07.12.2023)
+ Legal and regulatory framework	+4 Notches
+ Liquidity and refinancing risk	+1 Notch
= Rating after 1 st uplift	AAA
Cover pool & cash flow analysis	AA
+ 2 nd rating uplift	+/-0 Notch
= Rating covered bond program	AAA

Issuer Risk

Issuer

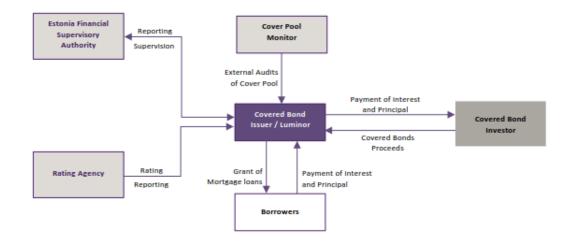
Our rating of Luminor Bank covered bond program is reflected by our issuer rating opinion of Luminor Bank A.S. due to its group structure. On 07.12.2023, Creditreform Rating upgraded the Long-Term Issuer Rating from A- to A and assigned a stable outlook for Luminor Bank A.S.

The upgrade is based on the fundamentally changed earnings situation due to the new interest rate environment, coupled with sustainable cost reductions as part of completed projects and efficiency programs on the part of the bank. At the same time, the capital base remains at a very high level. While the costs of risk are low, the asset quality is solid, marked by low NPL and relatively high RWA ratios. For a more detailed overview of the issuer rating, please refer to the issuer rating report published on the webpage of Creditreform Rating AG.

Structural Risk

Transaction structure

Figure 1: Overview of Covered Bond emission | Source: Luminor Bank



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Legal and Regulatory Framework

On 1 March 2019, the Estonian Covered Bond Act (ECBA) entered into force after passed in the parliament on 13 February of the same year. The legislation was the first to regulate the covered bond market in the country, providing the directives of mortgage and mixed assets covered bonds. Subsequently, various amendments were adopted on 10 December 2021 in order to implement the EU Covered Bond Directive 2019/2162 of 27 November 2019, and to align the Estonian law with the covered bond legislations of three Baltic States.

A comprehensive overview of the covered bond legislation can be found in our initial rating reports of Luminor Bank Mortgage Covered Bonds. The following major provisions describe the current status of the covered bonds legislation in Estonia.

Under ECBA, any universal credit institutions in Estonia is permitted to issue covered bonds. A company shall hold the Credit Institution authorisation and requires an additional permission to issue covered bonds. The issuer holds the cover pool assets and it will not be held by SPV, which means that the issuer has to keep the separate cover registers for different types of covered bonds.

The covered bondholders have direct recourse to the issuer and a preferential claim over the cover pool assets secured by its cover asset class. Cover assets mainly consists of primary cover assets and substitute assets. Primary cover assets must constitute 85% of the main collateral of the relevant covered bond portfolio, the residual can consist of substitute assets. Additionally, the law establishes different primary cover assets for mortgage covered bonds and mixed covered bonds.

For mortgage covered bond portfolios, either residential or commercial, the respective cover assets comprise of residential or commercial mortgage loans confined to EEA countries. An LTV limit of 70% and 60% are in place for the residential and commercial mortgage loans, respectively.

A cover pool monitor is appointed in the issuer's general meeting in order to ensure that the record of the cover assets are correctly documented in the cover register and that their inclusion meet the eligibility criteria, amongst other issuer's obligations. The issuers are required to publish the information about the covered bond portfolios quarterly according to the minimum disclosure criteria set out by the ECBA.

Furthermore, if an issuer is declared bankrupt or a dissolution process is set, upon the proposal of the EFSA, a court shall appoint a special cover pool administrator for the covered bond portfolio. The bankruptcy administrator may perform all legal transactions with effect to the cover pool, insofar as these are necessary for an orderly settlement in the interest and to the full satisfaction of the covered bond creditors.

In general, the Estonian covered bond framework defines clear rules to mitigate risks in particular regarding: insolvency remoteness, asset segregation, investor's special claim vis-à-vis other creditors, the roll and appointment of a cover pool monitor and bankruptcy administrator, among other provisions. We consider the structural framework in Estonia as positive, accomplishing an adequate set of rules for Estonian covered bonds. Due to those reasons we have set a rating uplift of four (+4) notches.

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Liquidity and Refinancing risk

According to the ECBA, the issuer must perform a stress test on the covered bond portfolio every quarter to check the level of collateralization. The issuers are required to maintain a mandatory nominal overcollateralization of 5% for the Mortgage and mixed assets.

Furthermore, the Issuer is required to maintain a liquidity buffer to cover, for the next 180 days, all debt service outflows (interest and principal) and derivative transactions. Considering soft-bullet or covered bonds with extendable maturity, the calculation of the maximum cumulative net liquidity outflow of the program takes into account the final (extended) maturity date for the capital outflow, as specified in the applicable contractual terms and conditions.

The issuer must ensure that the coverage and OC is also maintained in the case of stress periods. For this purpose, the underlying cover pool must be subjected to a stress test at least once a quarter to anticipate credit risk, interest rate risk, currency risk, and liquidity risk. Furthermore, issuing banks are allowed to use derivative instruments in the cover pool to hedge market risks like interest rate and currency risks and to facilitate risk management.

This covered bond program issues covered bonds with soft bullet maturity, i.e. a final repayment with an extension option at the end of the term. Maturity mismatches between cover assets and liabilities thus can be partially mitigated by extension of the legal final maturity. This feature of Estonian covered bond programs is considered quantitatively in our cash flow analysis.

In the event of the issuer's insolvency, the special administrator has wide-ranging powers to mitigate the refinancing risks which includes transferring the covered bond programs to another credit institutes in Estonia upon approval from EFSA or performing other necessary actions like use them as a guarantee for liquidity operations if liquidity shortfalls are foreseeable.

The Estonian legal framework and the required risk management processes for liquidity risks constitute a comparatively strict framework by which the risks can be effectively reduced. However, refinancing risks may not be completely structurally reduced under the soft bullet repayment structures, which can only be cushioned by sufficiently high OC or other liquid funds to bridge the asset liability mismatches in the portfolio. Nevertheless, we assess the overall legal provisions on liquidity management for Estonian Covered Bond programs as positive and set a rating uplift of one (+1) notch.

ESG Criteria

CRA generally takes ESG-relevant factors (environmental, social and governance) into account when assessing Covered Bond ratings. Overall, ESG factors have a significant impact on the current rating of this Covered Bond program. CRA identifies governance factors, in particular, to have a highly significant impact on Covered Bond ratings. Since Covered Bonds are subject to strict legal requirements, regulatory risk plays an important role in assessing the credit rating.

The Estonian covered bond legislation defines clear rules to mitigate risks in particular regarding: insolvency remoteness, asset segregation, investor's special claim vis-à-vis other creditors, the roll and appointment of a special administrator, among other provisions. Additionally, Risk management and internal controls as well as the macroeconomic factors such as hedging strategies, interest rates and yield curve are considered to have a highly significant impact on the assessment of the credit rating. Other individual factors with a potential key rating influence were not identified, and therefore did not affect the final rating.

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Credit and Portfolio Risk

Cover pool analysis

The analysis of the cover pool is based on public information which has been made available by the Issuer, in particular the Harmonised Transparency Template ("HTT") as per regulatory requirements. This information was sufficient according to CRA's rating methodology "Covered Bond Ratings".

At the cut-off-date 30.09.2023, the pool of cover assets consisted of 56,486 debt receivables from 52,754 debtors, of which 50.08% are domiciled in Lithuania. The total cover pool volume amounted to EUR 3,089.96 m in residential (100.00%), commercial (0.00%) and others (0.00%) loans.

The residential cover pool consists of 56,486 mortgage loans having an unindexed weighted average LTV of 63.63%. The non-residential cover pool does not have any mortgage loans. The ten largest debtors of the portfolio total to 0.15%. Table 2 displays additional characteristics of the cover pool:

Table 2: Cover pool characteristics | Source: Luminor Bank

Characteristics	Value
Cover assets	EUR 3,090 m.
Covered bonds outstanding	EUR 1,750 m.
Substitute assets	EUR 95.00 m.
Cover pool composition	
Mortgages	96.93%
Substitute assets	3.07%
Other / Derivative	0.00%
Number of debtors	52,754
Mortgages Composition	
Residential	100.00%
Commercial	0.00%
Other	0.00%
Average asset value (Residential)	EUR 53.02 k.
Average asset value (Commercial)	EUR 0.00 k.
Non-performing loans	0.00%
10 biggest debtors	0.15%
WA seasoning	66.73 Months
WA maturity cover pool (WAL)	12.16 Years
WA maturity covered bonds (WAL)	2.94 Years

We have listed an extended view of the composition of the cover pool in the appendix section "Cover pool details". The following chart displays the maturity profile of the cover assets at the cut-off date 30.09.2023 (see figure 2):

56.05% 60% Pool 50% Nominal Value Cover 40% 30% 20.15% 20% 7.01% 10% 4.14% 4.31% 4.23% 4 11% Λ% 5 - 10 1-2 2 0 - 1 10+

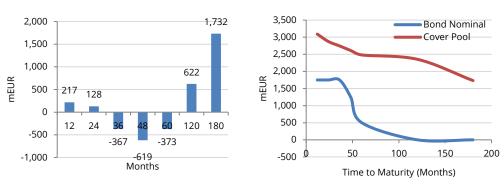
Figure 2: Distribution by remaining time to maturity I Source: Luminor Bank

Maturity profile

The following charts present the cash flow profile of the Issuer (see figure 3 and figure 4):

Time to Maturity (Years)





During its cash flow modelling, CRA has taken into consideration the maturity structure of cover assets and liabilities. This structure was an integral part of the cash flow analysis.

Interest rate and currency risk

This covered bond program uses derivatives to hedge interest rate- and currency risk. The legal framework provides for quarterly stress tests to be conducted on interest rate- and currency risks to maintain the mandatory OC. Furthermore, interest rate risk could be mitigated by the 5% OC requirement. Currency risk, on the other hand, is also limited for this program as 100.00% of the cover pool assets and 100.00% of the cover bonds are denominated mainly in euro. In our Cash flow analysis we assume that the interest rate mismatches and open currency positions of this program are fully hedged in the form of swap agreements; therefore, CRA did not apply any interest rate and foreign exchange stresses for the cash flows.

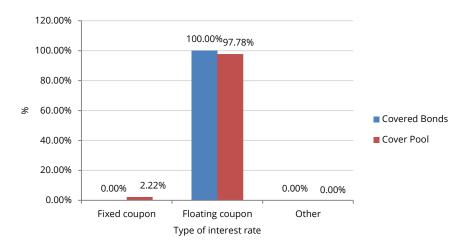
Mortgage Covered Bond Program

Table 3: Program distribution by currency | Source: Luminor Bank

Currency	Volume	Share (%)
Cover Pool		
EUR	3,090 m	100.00%
Covered Bond		
EUR	1,750 m	100.00%

Figure 5 shows the types of interest rate used in this program.

Figure 5: Type of interest rate | Source: Luminor Bank



Credit Risk

The credit risk assessment for Mortgage Covered Bond have been determined in accordance with CRA rating methodology for Covered Bonds by means of historical data and particular parameters from the Covered Bonds.

Due to the high granularity of mortgage pools we have characterized these portfolios as big enough and with a homogeneous composition i.e. ("Large Homogeneous Portfolio", LHP). Furthermore, under that premise we have assumed that it is possible to derive a loss distribution. CRA has used the issuer's historical NPL ratios to derivate a conservative default rate proxy for the approximation through the LHP distribution. For the Luminor Bank it has been assumed an expected default rate of 2.09% for the LHP. Furthermore, CRA has considered a 15.00% correlation to define the LHP distribution. Table 4 disclosed the expected default rate for each relevant rating level.

In order to derive recovery and loss-severity base case assumption, CRA has used historical data from mortgage price indexes. To determine loan-level recovery assumptions the resulting stressed recoveries assumptions were compared with the portfolio's existing loan-to-value ratios (LTVs).

Based on the default rates and taking into account the recovery assumptions, the following loss assumptions were determined for the current cover pool (see Table 4):

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Table 4: Cover Pool Base case assumptions | Source: CRA

Rating	Default Rate (%)	Recoveries (%)	Expected Loss (%)
AAA	44.38%	26.04%	32.82%
AA+	40.93%	28.61%	29.22%
AA	36.22%	32.64%	24.40%
AA-	31.87%	36.98%	20.09%
A+	30.18%	38.95%	18.42%
Α	30.09%	39.06%	18.34%
A-	28.83%	40.63%	17.12%

Cash-Flow Analysis

Model Assumptions

Based on public information and using the base case loss assumptions, we implement a scenario-based cash flow model. This model aims to test the ability of the structure to service all covered bonds according to their payment profile in diverse stress scenarios. The CRA cash flow analysis assumes that the Issuer has defaulted, i.e. all obligations will be met using cash flows from the cover pool assets only. We also assume that no additional assets will be added to the cover pool during the wind-down phase.

This program issues covered bonds with soft bullet maturity structure, i.e. a 12 months maturity extension upon the final legal maturity. This characteristic of the covered bonds has been taken into account during our cash-flow analysis.

In our model, short-term liquidity needs and liquidity needs due to asset-liability mismatches will be met with a sale of cover assets or by necessary arrangements of funds against cover assets available for monetization. CRA assumes that this funds will be arranged with discounts to the nominal value in a distressed refinancing scenarios. Based on secondary market data, CRA assumes a rating-level haircut on the asset value ("Asset-Sale Discount") which represents additional costs of disposal and market risks during the sale of cover assets. To derive the assetsale discount, CRA assumes, based on secondary market data, a rating level haircut on the asset value (see table 5).

The cash-flow analysis considers, among other factors, the possible positive yield spread between covered assets and covered bonds ("yield spreads"). CRA, using available public information (i.e. issuer's annual accounts), has derived estimations for yield spreads (see table 5):

Table 5: Cash-Flow Model assumptions | Source: CRA

Rating level	Asset-Sale Discount	Yield Spread
AAA	72.75%	0.84%
AA+	67.18%	0.92%
AA	63.59%	0.96%
AA-	60.17%	1.01%
A+	57.55%	1.04%
A	55.39%	1.07%
A-	52.58%	1.11%

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Rating Scenarios

In our cash flow model rating scenarios have been tested considering several central input parameters, such as:

- Portfolio composition (diversification, concentration, granularity)
- Probability of default of cover assets
- Correlations of cover assets and systematic risk factors
- Recoveries
- Maturity profile of covered bonds and cover assets (ALM)

Within an AA rating scenario, the cash flow model showed that obligations can be paid fully and in a timely manner. Overall, the cash flow analysis revealed that the portfolio, given all used information as of 30.09.2023, may ensure the repayment of bonds' nominal capital notwithstanding the occurrence of the presented stressed scenarios.

Overcollateralization Break-Even Analysis

CRA also performed a break-even OC analysis taking into considerations the following drivers: ALM, Loss level, Interest rate spreads, foreign currency mismatches and Recoveries. Performing the break-even OC analysis, we took rating-level specific stressed outcomes into account. Based on these analyses, the maximum OC required for each relevant rating level during the whole period has been presented in table 6.

Table 6: Breakeven Analysis | Source: CRA

Rating Level	Break-Even OC
AA	71.56%
AA-	61.11%
A+	56.53%
A	54.99%
A-	51.15%
BBB+	47.02%
BBB	42.88%

Sensitivity Analysis

CRA also evaluates the sensitivity of the structure and program with respect to important input parameters. In particular, the following factors have been varied:

- Credit quality of cover assets
- Recoveries

The following table presents the rating impact of a decline in recoveries and an increase in the credit risk of single debtors. Starting from the best-case, which is represented by our base case assumptions, the analysis reveals the sensitivity of the rating with respect to recovery rates and credit risk. The worst-case scenario, in which we reduce recoveries by 50% and increase credit risk by 50%, the impact can be seen by a change in the implied rating scenario of 6 notches to BBB (see Table 7):

Luminor Bank A.S. Mortgage Covered Bond Program

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Table 7: Covered Bond Program Sensitivity: Credit Quality und Recovery Rates | Source: CRA

Recovery Defaults	Base Case	-25%	-50%
Base Case	AA	AA-	AA-
+25%	AA-	A+	A-
+50%	A+	A-	BBB

In general, based on the presented cash flow analysis results, the rating of the cover pool within our covered bond program rating has been set at AA. Consequently, the secondary rating uplift was set at zero (+/-0) notch.

Counterparty Risk

Derivatives

Based on the available information, the issuer has entered into derivative agreements with Nordea Bank Abp in the form of Interest rate swaps.

Commingling

Incoming cash flows generated from the cover pool will normally be transferred to the Issuer and will be forwarded to the covered bond holders according to the payment terms and conditions. Should the issuer become bankrupt, there is a risk ("commingling risk") that funds may not be returned and commingled with the insolvency estate of the issuer. In order to avoid such risk, the Estonian covered bonds legislation stipulates that the cover assets should be isolated from the general bankruptcy estate (insolvency-free assets) and the ongoing management of the cover pool will be guaranteed by a special cover pool administrator appointed by EFSA. Under that mandate, the cover pool administrator will have the first priority on the up-coming cash flows from the cover pool assets. These cash flows in turn should be used to cover interest and principal payments of the covered bond holders in the event of the Issuer's insolvency.

Creditreform Covered Bond Rating Luminor Bank A.S.

Mortgage Covered Bond Program

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Appendix

Rating History

Event	Rating Date	Publication Date	Result
Initial Rating	27.04.2022	03.05.2022	AAA/ Stable
Rating Update	17.02.2023	24.02.2023	AA+/ Stable
Rating Update	08.01.2024	12.01.2024	AAA/ Stable

Details Cover Pool

Table 8: Characteristics of Cover Pool | Source: Luminor Bank

Characteristics	Value
Cover Pool Volume	EUR 3,089.96 m
Covered Bonds Outstanding	EUR 1,750.00 m
Substitute Assets	EUR 95.00 m
Share Derivatives	0.00%
Share Other	100.00%
Substitute Assets breakdown by asset type	
Cash	0.00%
Guaranteed by Supranational/ Sovereign agency	0.00%
Central bank	100.00%
Credit institutions	0.00%
Other	0.00%
Substitute Assets breakdown by country	
Issuer country	100.00%
Eurozone	0.00%
Rest European Union	0.00%
European Economic Area	0.00%
Switzerland	0.00%
Australia	0.00%
Brazil	0.00%
Canada	0.00%
Japan	0.00%
Korea	0.00%
New Zealand	0.00%
Singapore	0.00%
US	0.00%
Other	0.00%
Canada Japan Korea New Zealand Singapore US	0.00% 0.00% 0.00% 0.00% 0.00%

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Cover Pool Composition			
	Mortgages	96.93%	
	Total Substitute Assets	3.07%	
	Other / Derivatives	0.00%	
Number of Debtors		52,754	
Distribution by property use			
	Residential	100.00%	
	Commercial	0.00%	
	Other	0.00%	
Distribution by Residential type			
	Owner occupied	93.00%	
	Second home/Holiday houses	5.00%	
	Buy-to-let/Non-owner occupied	2.00%	
	Subsidised housing	0.00%	
	Agricultural	0.00%	
	Other	0.00%	
Distribution by Commercial type			
	Retail	0.00%	
	Office	0.00%	
	Hotel/Tourism	0.00%	
	Shopping malls	0.00%	
	Industry	0.00%	
	Agriculture	0.00%	
	Other commercially used	0.00%	
	Hospital	0.00%	
	School	0.00%	
	other RE with a social relevant purpose	0.00%	
	Land	0.00%	
	Property developers / Bulding under Construction	0.00%	
	Other	0.00%	
Average asset valu	ue (Residential)	EUR 53.02 k.	
Average asset valu	ue (Commercial)	EUR 0.00 k.	
Share Non-Performing Loans		0.00%	
Share of 10 biggest debtors		0.15%	
WA Maturity (months)		252.58	
WAL (months)		145.91	
Distribution by Country (%)			
Lithuania		50.08	

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Latvia	26.65
Estonia	23.26
Distribution by Region (%)	
Tallinn	10.13
Other Estonia	13.14
Riga	12.96
Other Latvia	13.69
Vilnius	21.26
Other Lithuania	28.83

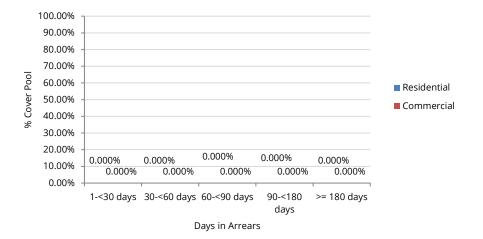
Table 9: Participant counterparties | Source: Luminor Bank

Role	Name	Legal Entity Identifier
Issuer	Luminor Bank A.S.	213800JD2L89GGG7LF07
Servicer	Luminor Bank A.S.	213800JD2L89GGG7LF07
Cover Pool Monitor	KPMG	NR

Table 10: Interest rate and Swap counterparties | Source: Luminor Bank

Name	Legal Entity Identifier	Agreement Type
Nordea Bank Abp	5299000DI3047E2LIV03	Interest rate

Figure 6: Arrears Distribution | Source: Luminor Bank



13/18

Figure 7: Program currency mismatches | Source: Luminor Bank

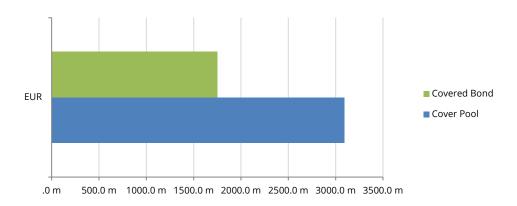
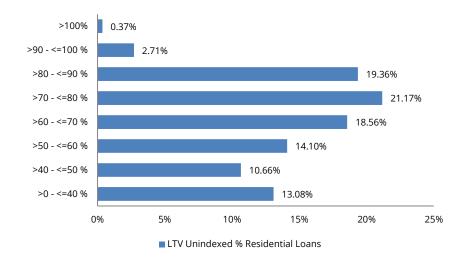


Figure 8: Unindexed LTV breakdown - residential pool | Source: Luminor Bank



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Key Source of Information

Documents (Date: 30.09.2023)

Issuer

- Audited consolidated annual reports of Luminor Bank (Group) 2019-2022
- Issuer rating report dated 07.12.2023
- Miscellaneous Investor Relations Information and Press releases
- Other rating relevant data from eValueRate/CRA databank

Covered Bond and Cover Pool

- HTT Reporting from Luminor Bank as of 30.09.2023
- Base prospectus of Luminor Bank Mortgage Covered Bond Program dated 28.04.2023
- Market data Mortgage Cover Bond Program

Regulatory and Legal Disclosures

Creditreform Rating AG was neither commissioned by the rating object nor by any other third parties for the rating. The analysis took place on a voluntary basis by Creditreform Rating AG and is to be described in the regulatory sense as an unsolicited rating. The rating was conducted on the basis of Creditreform Rating's "Covered Bond Ratings" methodology (v1.1, April 2022) and "Technical Documentation Portfolio Loss Distributions" (v.1.0, July 2018) in conjunction with Creditreform's basic document "Rating Criteria and Definitions" (v1.3, January 2018). On the subject of ESG (environment, social and governance), Creditreform Rating AG has published the basic document "The Impact of ESG Factors on Credit Ratings" (March 2020).

Unsolicited Credit Rating		
With Rated Entity or Related Third Party Participation	NO	
With Access to Internal Documents	NO	
With Access to Management	NO	

The rating is based on publicly available information and internal evaluation methods for the rated bank and program. The issuer's quantitative analysis is based mainly on the latest annual accounts, interim reports, other information of the bank pertaining to investor relations, and key figures calculated by CRA/ eValueRate. The cover pool's quantitative analysis for the rated Covered Bond Program was based on the "Harmonised Transparency Template" (HTT) published by the Luminor Bank.

Information on the meaning of a rating category, definition of default and sensitivity analysis of relevant key rating assumptions can be found at "Creditreform Rating AG, Rating Criteria and Definitions":

https://www.creditreform-rating.de/en/about-us/regulatory-requirements.html

This rating was carried out by analysts Philip Michaelis (Senior Analyst) und Bruno Passos (Analyst) both based in Neuss/Germany. On 08.01.2024, the rating was presented to the rating committee by the analysts and adopted in a resolution. The function of Person Approving Credit Ratings (PAC) was performed by Artur Kapica (Senior Analyst).

On 08.01.2023, the rating result was communicated to Luminor Bank, and the preliminary rating report was made available. The Issuer and all relevant parties examined the rating report

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prior to publication and were given at least one full working day to appeal the rating committee decision and provide additional information. The rating decision was not amended following this examination.

The rating is subject to one-year monitoring from the creation date (see cover sheet). Within this period, the rating can be updated. After one year at the latest, a follow-up is required to maintain the validity of the rating.

In 2011 Creditreform Rating AG was registered within the European Union according to EU Regulation 1060/2009 (CRA-Regulation). Based on the registration Creditreform Rating AG (CRA) is permitted to issue credit ratings within the EU and is bound to comply with the provisions of the CRA-Regulation.

Endorsement

Creditreform Rating did not endorse the rating according Article 4 (3), CRA-Regulation.

Conflict of Interests

Creditreform Rating AG ensures that the provision of ancillary services does not present conflicts of interest with its credit rating activities and discloses in the final ratings reports any ancillary services provided for the rated entity or any related third party. The following ancillary services were provided for the rated entity or for third parties associated with the rated entity:

In the case of the provision of ancillary services to the rated entity or a related third party, CRA will disclose all ancillary services in the credit rating report of the issuer.

For the complete list of provided rating and credit service ancillaries please refer to the Creditreform Rating AG's website: https://www.creditreform-rating.de/en/about-us/regulatory-re-quirements.html#non-core-business-activities.

Rules on the Presentation of Credit Ratings and Rating Outlooks

The approval of credit ratings and rating outlooks follows our internal policies and procedures. In line with our policy "Rating Committee," all credit ratings and rating outlooks are approved by a rating committee based on the principle of unanimity.

To prepare this credit rating, CRA has used following substantially material sources:

- 1. Transaction structure and participants
- 2. Transaction documents
- 3. Issuing documents
- 4. Other rating relevant documentation

There are no other attributes and limitations of the credit rating or rating outlook other than displayed on the CRA website. Furthermore, CRA considers satisfactory the quality and extent of information available on the rated entity. In regard to the rated entity, Creditreform Rating AG regarded available historical data as sufficient.

Between the disclosure of the credit rating to the rated entity and the public disclosure no amendments were made to the credit rating.

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