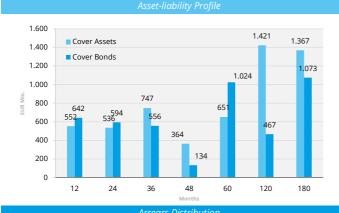
NORD/LB Luxembourg S.A. Covered Bond Bank Public Sector Covered Bond Program

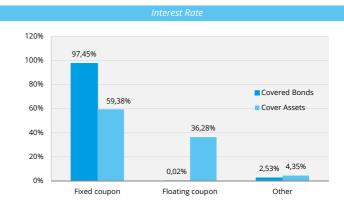
# Creditreform C Rating

Rating Object				
Country Issuer	Luxembourg	Repayment method	Hard Bullet	
Cover pool asset class	Public Sector		Min (2,00%)	
Legal framework	Financial Sector Act	Overcollateralization	Current (25,60%)	
Nominal value	EUR 4.489,42 m.		Committed (22,00%)	
Cover pool value	EUR 5.638,66 m.		Fix (97,45%)	
WAL maturity covered bonds	6,44 (Years)	Covered bonds coupon type	Floating (0,02%)	
WAL maturity cover pool	7,06 (Years)		Other (2,53%)	
Cut-off date Covered Pool Information:	31.03.2019			

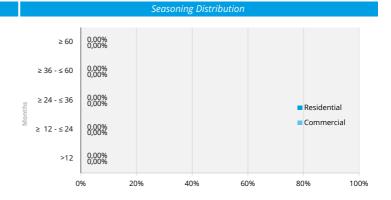
Rating Overview				
Rating Summary		Credit Risk		
Issuer	NORD/LB Luxembourg S.A. Covered Bond Bank	Metrics date	11.02.2019	
LT Issuer Rating	BBB-	Rating Case Default Rate	21,37%	
ST Issuer Rating	L3	Rating Case Recovery Rate	35,99%	
+Legal and regulatory framework analysis	+4 Notches	Expected Loss	13,68%	
+Liquidity and refinancing risk	+1 Notch	Rating Case Breakeven OC	32,52%	
= Rating after 1st uplift	A+	Program Key Counterparties		
Cover Pool & cash flow analysis	AA-	Servicer	NA	
+ 2nd rating uplift	+1 Notches	Account Bank	Banque et Caisse d'Epargne de l'Etat	
Rating covered bond program	AA-	Sponsor	NA	

Cover Assets Composition			
Cover Pool Balance	EUR 5.638,66 m.	Average size Loans	EUR 15.117,06 k.
Average Seasoning	84,10 Months		
Distribution by Type of Asset		Distribution by Loan Size	
Mortgages	EUR 0,00 m.	Total Number of Exposures	373
Public Sector	EUR 5.477,66 m.	Sovereings (EUR m.)	220
Substitute Assets	EUR 161,00 m.	Regional/federal authorities (EUR m.)	908
Other	EUR 0,00 m.	Local/municipal authorities (EUR m.)	955
		Others (EUR m.)	3.556









NORD/LB Luxembourg S.A. Covered Bond Bank Public Sector Covered Bond Program

# Creditreform ⊆ Rating

LTV Distribution Commercial Loans		LTV Distribution Residential Loans			
LTV	Nominal	% Loans	LTV	Nominal	% Loans
>0 - <=40 %	NA	NA	>0 - <=40 %	NA	NA
>40 - <=50 %	NA	NA	>40 - <=50 %	NA	NA
>50 - <=60 %	NA	NA	>50 - <=60 %	NA	NA
>60 - <=70 %	NA	NA	>60 - <=70 %	NA	NA
>70 - <=80 %	NA	NA	>70 - <=80 %	NA	NA
>80 - <=90 %	NA	NA	>80 - <=90 %	NA	NA
>90 - <=100 %	NA	NA	>90 - <=100 %	NA	NA
>100%	NA	NA	>100%	NA	NA

Currency Distribution			Loan Distrib	ution by Regions (as % of tota	al Public Sector assets)
Currency	Covered Bonds	Cover Assets	Region	% Residential Loans	% Commercial Loans
EUR	3.544,74 m.	2.418,38 m.	NA	NA	NA
USD	734,31 m.	1.789,62 m.	NA	NA	NA
GBP	0,00 m.	1.185,20 m.	NA	NA	NA
NOK	165,65 m.	0,00 m.	NA	NA	NA
CHF	44,72 m.	0,00 m.	NA	NA	NA
AUD	0,00 m.	0,00 m.	NA	NA	NA
CAD	0,00 m.	126,59 m.	NA	NA	NA
BRL	0,00 m.	0,00 m.	NA	NA	NA
CZK	0,00 m.	4,36 m.	NA	NA	NA
DKK	0,00 m.	0,00 m.	NA	NA	NA
HKD	0,00 m.	0,00 m.	NA	NA	NA
KRW	0,00 m.	0,00 m.	NA	NA	NA
SEK	0,00 m.	0,00 m.			
SGD	0,00 m.	0,00 m.			

114,50 m.

Swap Counterparties				
Name	Type of arrangement	LEI		
Norddeutsche Landesbank Girozentrale	Cross-Currency, Interest Rate	DSNHHQ2B9X5N6OUJ1236		
NA	NA	NA		
NA	NA	NA		
NA	NA	NA		
NA	NA	NA		
Swap Agreements				
Interest Rate Swap		EUR 1.156,65 m.		
Currency Swap	EUR 2.201,33 m.			

0,00 m.

Other

NORD/LB Luxembourg S.A. Covered Bond Bank Public Sector Covered Bond Program

# Creditreform C Rating

#### **ISIN Lists** Coupon Rate (%) Issue date Maturity date NORD/LB Luxembourg S.A. Covered Bond Bank Fix 23.05.2017 23.05.2022 XS1617529323 NORD/LB Luxembourg S.A. Covered Bond Bank XS1289534262 Fix 0,25 10.09.2015 10.09.2019 NORD/LB Luxembourg S.A. Covered Bond Bank XS1327548530 Fix 0,85 02.12.2015 02.12.2024 NORD/LB Luxembourg S.A. Covered Bond Bank XS1199018398 0,25 10.03.2015 10.03.2020 NORD/LB Luxembourg S.A. Covered Bond Bank XS0337182256 Fix 4,75 21.12.2007 23.12.2019 NORD/LB Luxembourg S.A. Covered Bond Bank XS1432510631 Fix 0,38 15.06.2016 15.06.2023 NORD/LB Luxembourg S.A. Covered Bond Bank XS0557954368 Fix 3,13 12.11.2010 05.11.2020 NORD/LB Luxembourg S.A. Covered Bond Bank XS1734579441 Fix 0,49 13.12.2017 13.12.2024 NORD/LB Luxembourg S.A. Covered Bond Bank Fix XS1959949196 0,38 07.03.2019 07.03.2024 NORD/LB Luxembourg S.A. Covered Bond Bank Fix XS0337182413 4,75 21.12.2007 21.12.2022 NORD/LB Luxembourg S.A. Covered Bond Bank Floating EIEUR3M + 0.57 11.09.2009 30.08.2019 XS0451363708 NORD/LB Luxembourg S.A. Covered Bond Bank XS1569741884 Fix 0,25 23.02.2017 23.08.2021

NORD/LB Luxembourg S.A. Covered Bond Bank Public Sector Covered Bond Program

# Creditreform ⊆ Rating

#### **Data Definitions**

The data is presented with a cut-off date . Following the clarification regarding the source of information: Issuer: Issuer source of information are all available public information, i.e. Investor Reports, Harmonised Transparency Templates "HTT", National Transparency Templates "NTT", Prospectus etc. Not reported or non available information will be labeled as "NA".

Field Name	Source	Definition
Cover pool asset class	Issuer	The asset type in the cover pool (public sector assets or mortgage assets)
Legal framework	CRA	The set of legislative and regulatory rules of the respective jurisdiction that regulates the covered bonds (CB) program
Nominal value	Issuer	The total amount of outstanding covered bonds as of cut-off date expressed in millions
Cover pool value	Issuer	Aggregate value of all assets in the cover pool as of cut-off date expressed in millions
WAL maturity covered bonds	Issuer	The weighted average remaining maturity of all outstading covered bonds in years
WAL maturity cover pool	Issuer	The weighted average remaining maturity of all outstading covered assets in years
Repayment method	Issuer	Hard Bullet: Covered bonds are repaid on the maturiry date which cannot be extended Soft Bullet: The maturity date of the covered bonds can be extended by a fixed period Conditional pass-through (CPT): Covered bonds with a scheduled maturity date, and an extension mechanism defined by certain conditions
Overcollateralization	Issuer	Current OC: The proportion of covel assets that exceeds the proportion of currrently outstanding covered bonds, calculated as ([Cover pool value]/[outstanding covered bonds]-1)*100  Min OC: The OC level that the issuer must maintain according to the respective CB legislation  Committed OC: The minimum OC level that the issuer has committed to maintain
Covered bonds coupon type	Issuer	Type of interest rate paid on covered bonds, expressed as a percentage of bond's face value
LT Issuer Rating	CRA	Long-term ratings assess the default risks for each category of a bank's financial instruments with a residual term-to-maturity of more than one year
ST Issuer Rating	CRA	Short-term ratings assess the default risks for each category of a bank's financial instruments with a residual term-to-maturity of less than one year
Legal and regulatory framework analysis	CRA	A qualitative assessement of legislative and regulatory rules of the covered bonds program
Liquidity and refinancing risk	CRA	A qualitative assessement of regulatory requirements for liquidity and refinancing risk of the covered bonds program
First rating uplift	CRA	The rating after adding up the notches from Legal and regulatory framework analysis and Liquidity and refinancing risk with LT Issuer rating
Cover pool and cash flow analysis	CRA	The quantitative assessment of the cover assets and covered bonds at different rating-level stressed scenarios
Second rating upflift	CRA	The rating after adding up the notches from cash-flow analysis with 1st rating uplift (only effective if the rating from cash-flow analysis is higher than the 1st rating uplift)
Metrics date	CRA	The date on which CRA assigned the initial / follow-up rating of the covered bond program
Rating Case Default Rate (RDR)	CRA	Stressed default rate of the cover assets represented by the base case stressed scenario
Rating Case Recovery Rate (RRR)	CRA	Stressed recovery rate of the defaulted assets represented by the base case stressed scenario
Expected Loss	CRA	Stressed loss rate of the cover assets represented by the base case stressed scenario. The expected loss rate has been calculated as [RDR*(1-RRR)] [%]
Rating Case Breakeven OC	CRA	The required stressed OC level compatible with the base case rating
Average Seasoning	Issuer	Average length of the loans from the origination date to the cut-off date in months
Loan Size	Issuer	Average size of the loans (i.e. Total value of cover assets / Number of loans)
LTV	Issuer	The loan-to-value (LTV) is the ratio of a loan to the value of the property securing the loan
LEI	CRA	Legal Entity Identifier (LEI) enables unique identification of legal entities in financial transactions
Arrears Distribution	Issuer	The distrbution of arrears of the cover assets with respect to each asset class
Seasoning Distribution	Issuer	The distrbution of seasoning of the cover assets with respect to each asset class
Asset liability Profile	CRA	The maturity structure of the cover assets and liabilities
% Residential Loans	Issuer	Outstanding value of loans that are secured by the residential property expressed as % of total outstadning loans in the cover pool
% Commercial Loans	Issuer	Outstanding value of loans that are secured by the commercial property expressed as % of total outstadning loans in the cover pool
Fixed Coupon	Issuer	All assets and liabilities in the covered bond program that yield a fixed interest rate
Floating Coupon	Issuer	All assets and liabilities in the covered bond program that have variable interest rates
EIEURxM	Reuters	Euro x Month EURIBOR
EIEURxY	Reuters	Euro x Year EURIBOR

NORD/LB Luxembourg S.A. Covered Bond Bank Public Sector Covered Bond Program

### Creditreform C Rating

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