Creditreform Covered Bond Rating ING Bank N.V. Mortgage Covered Bond (Soft Bullet) Program Rating Object

0.00%

>= 180 days

NR

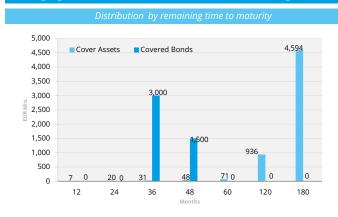
Creditreform C Rating

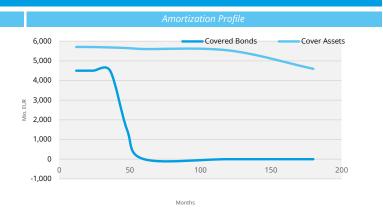
Rating Object			Program ID	jcsUt	
		The Netherlands	Main collateral asset class	Mortgage	
Main country of assets		The Netherlands	Legal Framework	Dutch Covered Bond Legislation	
Covered bonds type		Mortgage	Repayment method	Soft Bullet	
Cut-off date Cover pool infomation:		31.03.2024	Publication date:	24.05.2024	
Rating Overview					
Rating Summary			Key Credit Risk Metrics		
Issuer		ING Bank N.V.	Metrics date	08.12.2023	
LT Issuer Rating		A+	Rating Case Default Rate	2.67%	
ST Issuer Rating		L2	Rating Case Recovery Rate	86.61%	
+Legal and regulatory framework analysis		+4 Notches	Expected Loss	0.36%	
+Liquidity and refinancing risk		+1 Notch	Rating Case Breakeven OC	30.12%	
= Rating after 1st uplift		AAA	Asset-sale discount stressed	40.34%	
Cover Pool & cash flow analysis		BB+	Yield Spread stressed	1.24%	
+ 2nd rating uplift		+/- 0 Notch			
Rating covered bond program	m / Outlook	AAA / Stable			
Program Characteristics			All curr	rencies displayed in EUR	
General Information			Overcollateralization		
Bonds Nominal value		4,500.00 m.	Minimum	5.00%	
Cover pool value		5,707.93 m.	Committed	2.84%	
WAL maturity covered bonds		1.86 Years	Current	26.84%	
WAL maturity cover pool		13.12 Years			
Currency Participations			Interest Rate types		
Euro-denominated Assets		100.00%	Fixed Rate - Covered Bonds	77.78%	
Euro-denominated Bonds		100.00%	Floating Rate - Covered Bonds	22.22%	
Non Euro-denominated Assets		0.00%	Other Rate -Covered Bonds	0.00%	
Non Euro-denominated Assets Non Euro-denominated Bonds		0.00%	Fixed Rate -Cover Assets	91.67%	
Tron Euro denominated Bonds			Floating Rate - Cover Assets	8.33%	
			Other Rate - Cover Assets	0.00%	
Cover Assets Composition					
General Information					
Cover Pool value		5,707.93 m.	Residential Mortgage value	5,707.93 m.	
Mortgage assets		5,707.93 m.	Commercial Mortgage value	0.00 m.	
Public sector assets		0.00 m.	Other Mortgage value	0.00 m.	
Other assets	Other assets		Total number of exposures	34,441	
Substitute assets		0.00 m.	Number of Commercial Loans	0.00	
of which Cash		0.00 m.	Number of Residential Loans	34,441.00	
of which Exposures to/ guaranteed by Supranational, Sovereign, Agency (SSA)		0.00 m.	Average Size Commercial Loans (000s)	0.00	
of which Exposures to central banks		0.00 m.	Average Size Residential Loans (000s)	165.73	
of which Exposures to credit institutions		0.00 m.	Weighted Average Seasoning (months)	174.96	
of which Other		0.00 m.			
Arrears	% Residential Loans	% Commercial Loans			
1-<30 days	0.01%	NR			
30-<60 days	0.01%	NR			
60-<90 days	0.00%	NR			
90-<180 days	0.00%	NR			

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Mortgage Covered Bond (Soft Bullet) Program

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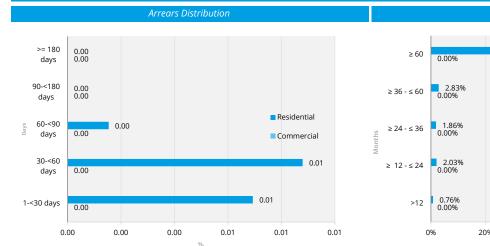


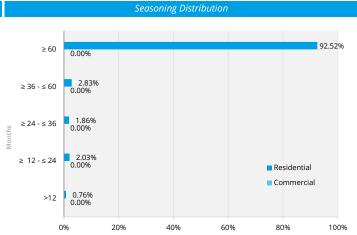
Loan Distribution by country (as % of total Mortgages)			Currency Distribution			
Country	% Residential Loans	% Commercial Loans	Currency	Covered Bonds	Cover Assets	
Austria	0.0%	0.0%	EUR	4,500.00 m.	5,707.93 m.	
Belgium	0.0%	0.0%	AUD	0.00 m.	0.00 m.	
Bulgaria	0.0%	0.0%	BRL	0.00 m.	0.00 m.	
Croatia	0.0%	0.0%	CAD	0.00 m.	0.00 m.	
Cyprus	0.0%	0.0%	CHF	0.00 m.	0.00 m.	
Czech Republic	0.0%	0.0%	CZK	0.00 m.	0.00 m.	
Denmark	0.0%	0.0%	DKK	0.00 m.	0.00 m.	
Estonia	0.0%	0.0%	GBP	0.00 m.	0.00 m.	
Finland	0.0%	0.0%	HKD	0.00 m.	0.00 m.	
-rance	0.0%	0.0%	ISK	0.00 m.	0.00 m.	
Germany	0.0%	0.0%	JPY	0.00 m.	0.00 m.	
Greece	0.0%	0.0%	KRW	0.00 m.	0.00 m.	
Netherlands	100.0%	0.0%	NOK	0.00 m.	0.00 m.	
Hungary	0.0%	0.0%	PLN	0.00 m.	0.00 m.	
Ireland	0.0%	0.0%	SEK	0.00 m.	0.00 m.	
taly	0.0%	0.0%	SGD	0.00 m.	0.00 m.	
Latvia	0.0%	0.0%	USD	0.00 m.	0.00 m.	
ithuania	0.0%	0.0%	Loan Distribution by	Regions (as % of total Mortg	ages)	
uxembourg	0.0%	0.0%	Region	% Residential Loans	% Commercial Loans	
Malta	0.0%	0.0%	Groningen	2.46%	NR	
Poland	0.0%	0.0%	Friesland	3.00%	NR	
Portugal	0.0%	0.0%	Drenthe	2.63%	NR	
Romania	0.0%	0.0%	Overijssel	5.94%	NR	
Slovakia	0.0%	0.0%	Gelderland	12.63%	NR	
Slovenia	0.0%	0.0%	Noord-Holland	22.88%	NR	
Spain	0.0%	0.0%	Zuid-Holland	22.63%	NR	
Sweden	0.0%	0.0%	Zeeland	1.53%	NR	
Jnited Kingdom	0.0%	0.0%	Brabant	11.78%	NR	
celand	0.0%	0.0%	Utrecht	8.53%	NR	
Liechtenstein	0.0%	0.0%	Limburg	3.60%	NR	
Norway	0.0%	0.0%	Flevoland	2.39%	NR	
Switzerland	0.0%	0.0%				
Australia	0.0%	0.0%				
Brazil	0.0%	0.0%				
Canada	0.0%	0.0%				
apan	0.0%	0.0%				
Korea	0.0%	0.0%				
New Zealand	0.0%	0.0%				
Singapore	0.0%	0.0%				
JS	0.0%	0.0%				
		0.0%				

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		LTV Di	stribution			
Unindexed LTV Distribution Commercial Loans			Unindexed LTV Distribution Residential Loans			
LTV	Nominal	% Loans	LTV	Nominal	% Loans	
>0 - <=40 %	NR	NR	>0 - <=40 %	1,913.48	33.52%	
>40 - <=50 %	NR	NR	>40 - <=50 %	1,326.83	23.25%	
>50 - <=60 %	NR	NR	>50 - <=60 %	1,319.38	23.11%	
>60 - <=70 %	NR	NR	>60 - <=70 %	750.60	13.15%	
>70 - <=80 %	NR	NR	>70 - <=80 %	273.49	4.79%	
>80 - <=90 %	NR	NR	>80 - <=90 %	83.04	1.45%	
>90 - <=100 %	NR	NR	>90 - <=100 %	27.52	0.48%	
>100%	NR	NR	>100%	13.59	0.24%	
Transaction Parties			Swap Counterparties			
Key Transaction parties	Name	LEI	Counterparty Name	LEI	Type of swap	
Issuer	ING Bank N.V.	3TK20IVIUJ8J3ZU0QE75	ING Bank N.V.	3TK20IVIUJ8J3ZU0QE75	IRS	
Servicer	ING Bank N.V.	3TK20IVIUJ8J3ZU0QE75	ING Bank N.V.	3TK20IVIUJ8J3ZU0QE75	TRS	
Cash manager	ING Bank N.V.	3TK20IVIUJ8J3ZU0QE75	Type of swap arrangements			
Account Bank	ING Bank N.V.	3TK20IVIUJ8J3ZU0QE75	Intra-group interest rate swaps		Yes	
Trustee	Stichting Trustee ING SB Covered Bond Company	NR	Intra-group currency rate	Intra-group currency rate swaps		
Cover Pool Monitor	Ernst & Young Accountants LLP	NR				

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ISIN List of rated securities						
Issuer	ISIN	Coupon Type	Coupon Rate (%)	Issue date	Maturity date	Program ID
ING Bank N.V.	XS1220086141	Fix	0.42	16.04.2015	16.04.2025	jcsUt
ING Bank N.V.	XS1264161214	Floating	EIEUR6M + 0.48	22.07.2015	22.01.2026	jcsUt
ING Bank N.V.	XS1565338743	Fix	0.80	14.02.2017	12.02.2027	jcsUt
ING Bank N.V.	XS1433124457	Floating	EIEUR6M + 0.4	15.06.2016	16.09.2024	jcsUt
ING Bank N.V.	XS1433124705	Floating	EIEUR6M + 0.4	16.06.2016	16.09.2026	jcsUt

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Mortgage Covered Bond (Soft Bullet) Program

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Data Definitions

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Issuer: Issuer source of information includes all available public information, i.e. Investor Reports, Harmonised Transparency Templates "HTT", National Transparency Templates "NTT", Prospectus etc.

Information not applicable for the jurisdiction and not relevant for the issuer and/or CB program at the present time will be labeled as "NR" (Not Relevant) Information not disclosed by the issuer will be labeled as "ND" (Not Disclosed)

Field Name	Source	Definition
Program ID	CRA	Unique CRA internal identification for a rating
Covered bonds type	Issuer	The covered bonds type (public sector covered bonds or mortgage covered bonds)
Country Issuer	Issuer	The issuer country
Main country of assets	Issuer	The country with the maximum participation of cover assets
Main collateral asset class	Issuer	The main collateral asset class of the covered bonds
Legal framework	CRA	The set of legislative and regulatory rules of the respective jurisdiction that regulates the covered bonds (CB) program
Bonds 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 cover assets in the cover pool (incl. Substitute assets) as of cut-off date expressed in millions
WAL maturity covered bonds	Issuer	The weighted average remaining maturity of all outstanding covered bonds in years
WaL maturity cover pool	Issuer	The weighted average remaining maturity of all outstanding covered assets in years
Repayment method	lssuer	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 Hard & Soft Bullet: The covered bond program with a combination of hard bullet and soft bullet maturity structures
Overcollateralization (OC) - Current	CRA	The proportion of cover assets that exceeds the current outstanding covered bonds, calculated as ([Cover pool value]/[outstanding covered bonds]-1)*100
Overcollateralization (OC) - Minimum	CRA	The minimum OC level that the issuer must maintain according to the respective CB legislation
Overcollateralization (OC) - Commited	CRA	The minimum OC level that the issuer has committed to maintain, as published in its public available reports. If no level of committed OC is reported, the field shows "NR" (Not Relevant)
Fixed Rate - Covered Bonds	Issuer	Share of covered bonds paying a fixed rate of interest
Floating Rate - Covered Bonds	Issuer	Share of covered bonds paying a floating rate of interest
Other Rate -Covered Bonds	Issuer	Share of covered bonds paying an other rate of interest
Fixed Rate -Cover Assets	Issuer	Share of cover assets yielding a fixed rate of interest
Floating Rate - Cover Assets	Issuer	Share of cover assets yielding a floating rate of interest
Other Rate - Cover Assets	Issuer	Share of cover assets yielding an other rate of interest
Euro-denominated Assets	Issuer	Share of cover assets denominated in Euros, in percentage of total cover pool value
Euro-denominated Bonds	Issuer	Share of covered bonds denominated in Euros, in percentage of bonds nominal value
Non Euro-denominated Assets	Issuer	Share of cover assets denominated in currencies other than Euros, in percentage of total cover pool value
Non Euro-denominated Bonds	Issuer	Share of covered bonds denominated in currencies other than Euros, in percentage of bonds nominal 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 assessment of legislative and regulatory rules of the respective covered bonds program
Liquidity and refinancing risk	CRA	A qualitative assessment of regulatory requirements for the liquidity and refinancing risk of the respective 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)
Rating covered bond program / Outlook © Creditreform Rating AG 24.05.2024	CRA	Final rating and outlook of the covered bond program 5/8

24.05.2024

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Mortgage Covered Bond (Soft Bullet) Program

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Field NameSourceDefinitionMetrics dateCRAThe date on which CRA assigned the initial / follow-up rating of the covered bond program, as well as propreitary metrics to determine the rating of the covered bonds programRating Case Default Rate (RDR)CRAStressed default rate of the cover assets represented by the base case stressed scenarioRating Case Recovery Rate (RRR)CRAStressed recovery rate of the defaulted assets represented by the base case stressed scenarioExpected LossCRAStressed loss rate of the cover assets represented by the base case stressed scenario. The expected long has been calculated as [RDR*(1-RRR)] [%]Rating Case Breakeven OCCRAThe required stressed OC level compatible with the base case ratingAsset-sale discount stressedCRAStressed Asset value haircuts of the main collateral asset class represented by the base case stressedYield Spread stressedCRAStressed positive yield spreads between covered bonds and cover assets represented by the base case stressed scenarioAverage SeasoningIssuerAverage length of the loans from the origination date to the cut-off date in monthsLoan SizeIssuerAverage size of the loans (i.e. Total value of cover assets / Number of loans)Mortgage assetsIssuerOutstanding mortgage assets in the cover pool expressed in millionsOther assetsIssuerOutstanding public sector assets in the cover pool expressed in millionsSubstitute assetsIssuerOutstanding substitute assets in the cover pool expressed in millionsResidential mortgage valueIssuerOutstanding residential mortgage loans in the cover
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 has been calculated as [RDR*(1-RRR)] [%] Rating Case Breakeven OC CRA The required stressed OC level compatible with the base case rating Asset-sale discount stressed CRA Stressed Asset value haircuts of the main collateral asset class represented by the base case stressed yield spreads between covered bonds and cover assets represented by the base case stressed Average Seasoning 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) Mortgage assets Issuer Outstanding mortgage assets in the cover pool expressed in millions Other assets Issuer Outstanding other assets in the cover pool expressed in millions Substitute assets Issuer Outstanding substitute assets in the cover pool expressed in millions
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Other assets
Substitute assets Outstanding substitute assets in the cover pool expressed in millions
Residential mortgage value
Commercial mortgage value Suer Outstanding commercial mortgage loans in the cover pool expressed in millions
Other mortgage value
Loans (Public Sector)
Bonds (Public Sector)
Other (Public sector)
Sovereigns (m.) Issuer Outstanding Sovereigns loans among public sector assets expressed in millions
Regional/ federal authorities (m.) Issuer Outstanding regional governments loans among public sector assets expressed in millions
Local/ municipal authorities (m.) Issuer Outstanding local governments loans among public sector assets expressed in millions
Others (m.) Outstanding loans of other debtors among public sector assets expressed in millions
of which Cash Issuer Nominal value of total cash in the substitute asssets expressed in millions
of which Exposures to/ guaranteed by Supranational, Sovereign, Agency (SSA) in the subs Supranational, Sovereign, Agency (SSA) in the subs assets expressed in millions
of which Exposures to central banks
of which Exposures to credit institutions
of which Other Issuer Nominal value of the other type of exposures in the substitute asssets expressed in millions
Total number of exposures
Arrears % of public sector assets
Arrears % of residential loans
Arrears % of commercial loans
1-<30 days Percentage of loans with arrears of less than 30 days
30-<60 days Percentage of loans with arrears between 30 and 60 days
60-<90 days Percentage of loans with arrears between 60 and 90 days
90-<180 days Percentage of loans with arrears between 90 and 180 days
>= 180 days Percentage of loans with arrears equal or above 180 days
Distribution by remaining time to maturity CRA The remaining residual life of cover pool assets and the remaining maturity of covered bonds in month

ING Bank N.V.

Mortgage Covered Bond (Soft Bullet) Program

Creditreform C Rating

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Field Name	Source	Definition
LTV	Issuer	The loan-to-value (LTV) is the ratio of a loan to the value of the property securing the loan
Unindexed LTV Distribution Commercial Loans	Issuer	Unindexed LTV distribution of commercial loans represented by finite continuous distributions of intervals expressed in volume and percentage of total commercial loans
Indexed LTV Distribution Commercial Loans	Issuer	Indexed LTV distribution of commercial loans represented by finite continuous distributions of intervals expressed in volume and percentage of total commercial loans
Unindexed LTV Distribution Residential Loans	Issuer	Unindexed LTV distribution of residential loans represented by finite continuous distributions of intervals expressed in volume and percentage of total residential loans
Indexed LTV Distribution Residential Loans	Issuer	Indexed LTV distribution of residential loans represented by finite continuous distributions of intervals expressed in volume and percentage of total residential loans
Loan distribution by country	Issuer	The share of cover assets across countries represented by the respective asset classes
Loan distribution by region	Issuer	The regional distribution of cover assets of the main country of collateral asset class in percentage
Currency distribution	Issuer	Distribution of currencies of the covered bonds and cover assets expressed in millions
Arrears Distribution	Issuer	The distribution of arrears of the cover assets with respect to each asset class
Seasoning Distribution	Issuer	The distribution of seasoning of the cover assets with respect to each asset class
Amortization 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 outstanding loans in the cover pool
% Commercial Loans	Issuer	Outstanding value of loans that are secured by the commercial property expressed as % of total outstanding loans in the cover pool
LEI	CRA	Legal Entity Identifier (LEI) enables unique identification of legal entities in financial transactions
Transaction parties	Issuer	Key transaction parties of the covered bond program
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
EURSWEXY	Reuters	Euro x Year Interest Rate Swap Fixing

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Mortgage Covered Bond (Soft Bullet) Program

Creditreform C Rating

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