Creditreform Covered Bond Rating ING Bank N.V.

90-<180 days

>= 180 days

Mortgage Covered Bond (Hard & Soft Bullet) Program

Creditreform C Rating

Rating Object			Program ID	Uhosv
ountry Issuer		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	Hard & Soft Bullet
Cut-off date Cover pool infomat	ion:	31.03.2024	Publication date:	24.05.2024
Rating Overview				
Rating Summary			Key Credit Risk Metrics	
ssuer		ING Bank N.V.	Metrics date	08.12.2023
T Issuer Rating		A+	Rating Case Default Rate	4.48%
T Issuer Rating		L2	Rating Case Recovery Rate	73.50%
Legal and regulatory frame	ework analysis	+4 Notches	Expected Loss	1.19%
Liquidity and refinancing r	isk	+1 Notch	Rating Case Breakeven OC	21.82%
Rating after 1st uplift		AAA	Asset-sale discount stressed	40.34%
over Pool & cash flow anal	ysis	BB+	Yield Spread stressed	1.24%
2nd rating uplift		'+/- 0 Notch		
Rating covered bond progra	am / Outlook	AAA / Stable		
Program Characteris	tics		.All cu	rrencies displayed in EUR
General Information			Overcollateralization	
londs Nominal value		22,393.77 m.	Minimum	5.00%
over pool value		28,088.64 m.	Committed	2.50%
VAL maturity covered bond	ds	4.86 Years	Current	25.43%
WAL maturity covered bonds WAL maturity cover pool		14.09 Years		
urrency Participations			Interest Rate types	
uro-denominated Assets		100.00%	Fixed Rate - Covered Bonds	93.30%
uro-denominated Bonds		100.00%	Floating Rate - Covered Bonds	6.70%
on Euro-denominated Ass	ets	0.00%	Other Rate -Covered Bonds	0.00%
lon Euro-denominated Bor		0.00%	Fixed Rate -Cover Assets	94.17%
		0.00%	Floating Rate - Cover Assets	5.83%
			Other Rate - Cover Assets	0.00%
avay Assats Campus	-ition			
Cover Assets Composition	sition			
over Pool value		28,088.64 m.	Residential Mortgage value	27,727.55 m.
Nortgage assets		27,727.55 m.	Commercial Mortgage value	0.00 m.
ublic sector assets		0.00 m.	Other Mortgage value	0.00 m.
Other assets		0.00 m.	Total number of exposures	139,956
		361.09 m.	Number of Commercial Loans	0.00
Substitute assets of which Cash		361.09 m.	Number of Residential Loans	139,956.00
	uaranteed 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)	198.12
of which Exposures to credit institutions		0.00 m.	Weighted Average Seasoning (months)	144.12
of which Other		0.00 m.		
Arrears	% Residential Loans	% Commercial Loans		
-<30 days	0.01%	NR		
0-<60 days	0.01%	NR		
i0-<90 days	0.00%	NR		

NR

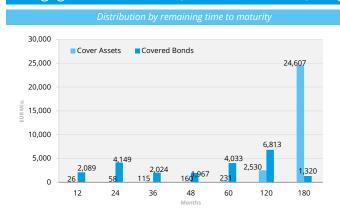
0.00%

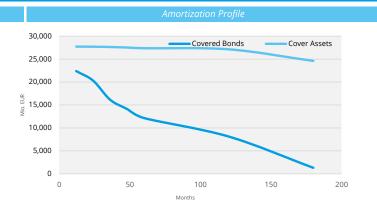
0.00%

ING Bank N.V.

Mortgage Covered Bond (Hard & Soft Bullet) Program

Creditreform C Rating



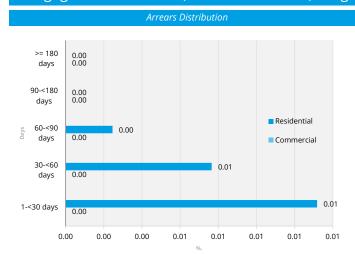


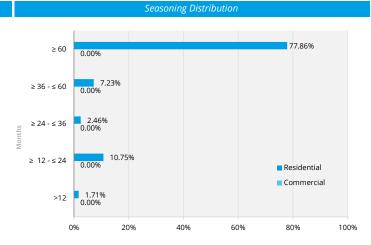
Loan Distribution by	country (as % of total Mort	gages)		Currency Distribution			
Country	% Residential Loans	% Commercial Loans	Currency	Covered Bonds	Cover Assets		
Austria	0.0%	0.0%	EUR	22,393.77 m.	28,088.64 m.		
Belgium	0.0%	0.0%	AUD	0.00 m.	0.00 m.		
Bulgaria	0.0%	0.0%	BRL	0.00 m.	0.00 m.		
Croatia	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.		
letherlands	100.0%	0.0%	NOK	0.00 m.	0.00 m.		
lungary	0.0%	0.0%	PLN	0.00 m.	0.00 m.		
reland	0.0%	0.0%	SEK	0.00 m.	0.00 m.		
taly	0.0%	0.0%	SGD	0.00 m.	0.00 m.		
atvia	0.0%	0.0%	USD	0.00 m.	0.00 m.		
ithuania	0.0%	0.0%	Loan Distribution by	Loan Distribution by Regions (as % of total Mortgages)			
uxembourg	0.0%	0.0%	Region	% Residential Loans	% Commercial Loans		
//alta	0.0%	0.0%	Groningen	2.30%	NR		
oland	0.0%	0.0%	Friesland	2.73%	NR		
ortugal	0.0%	0.0%	Drenthe	2.51%	NR		
tomania	0.0%	0.0%	Overijssel	5.76%	NR		
lovakia	0.0%	0.0%	Gelderland	12.04%	NR		
lovenia	0.0%	0.0%	Noord-Holland	20.68%	NR		
pain	0.0%	0.0%	Zuid-Holland	23.16%	NR		
weden	0.0%	0.0%	Zeeland	1.43%	NR		
Jnited Kingdom	0.0%	0.0%	Brabant	12.23%	NR		
celand	0.0%	0.0%	Utrecht	9.30%	NR		
iechtenstein	0.0%	0.0%	Limburg	3.12%	NR		
lorway	0.0%	0.0%	Flevoland	4.73%	NR		
witzerland	0.0%	0.0%					
ustralia	0.0%	0.0%					
razil	0.0%	0.0%					
anada	0.0%	0.0%					
ipan	0.0%	0.0%					
orea	0.0%	0.0%					
lew Zealand	0.0%	0.0%					
ingapore	0.0%	0.0%					
IS	0.0%	0.0%					

ING Bank N.V.

Mortgage Covered Bond (Hard & Soft Bullet) Program

Creditreform C Rating





		LTV Dis	tribution		
Uninde	exed LTV Distribution Comn	nercial Loans	Unindexed LTV Distribution Residential Loans		
LTV	Nominal	% Loans	LTV	Nominal	% Loans
>0 - <=40 %	NR	NR	>0 - <=40 %	7,559.97	27.27%
·40 - <=50 %	NR	NR	>40 - <=50 %	5,674.13	20.46%
50 - <=60 %	NR	NR	>50 - <=60 %	6,008.87	21.67%
·60 - <=70 %	NR	NR	>60 - <=70 %	4,321.39	15.59%
- 70 - <=80 %	NR	NR	>70 - <=80 %	2,070.96	7.47%
·80 - <=90 %	NR	NR	>80 - <=90 %	940.92	3.39%
90 - <=100 %	NR	NR	>90 - <=100 %	744.00	2.68%
100%	NR	NR	>100%	407.30	1.47%
	Transaction Parti	es	Swap Counterparties		
ey Transaction parties	Name	LEI	Counterparty Name	LEI	Type of swap
ssuer	ING Bank N.V.	3TK20IVIUJ8J3ZU0QE75	ING Bank N.V.	3TK20IVIUJ8J3ZU0QE75	FX
ervicer	ING Bank N.V.	3TK20IVIUJ8J3ZU0QE75	ING Bank N.V.	3TK20IVIUJ8J3ZU0QE75	IRS
ash manager	ING Bank N.V.	3TK20IVIUJ8J3ZU0QE75	ING Bank N.V.	3TK20IVIUJ8J3ZU0QE75	TRS
ccount bank	ING Bank N.V.	3TK20IVIUJ8J3ZU0QE75	Type of swap arrangements		
tandby account bank	ING Bank N.V.	3TK20IVIUJ8J3ZU0QE75	Intra-group interest rate swaps		Yes
rustee	Stichting Trustee ING Covered Bond Company	NR	Intra-group currency rate swaps		Yes
Cover Pool Monitor	Ernst & Young Accountants LLP	NR			

ING Bank N.V.

Mortgage Covered Bond (Hard & Soft Bullet) Program

Creditreform C Rating

ISIN List of rated securities						
Issuer	ISIN	Coupon Type	Coupon Rate (%)	Issue date	Maturity date	Program ID
ING Bank N.V.	XS0804363439	Fix	2.88	20.07.2012	20.07.2029	Uhosv
ING Bank N.V.	XS0839070538	Fix	2.62	08.10.2012	08.10.2027	Uhosv
ING Bank N.V.	XS0885718352	Fix	2.38	06.02.2013	06.02.2025	Uhosv
ING Bank N.V.	XS0893311299	Fix	2.35	20.02.2013	21.10.2024	Uhosv
ING Bank N.V.	XS0934053157	Fix	2.29	22.05.2013	22.05.2028	Uhosv
ING Bank N.V.	XS0953199808	Fix	2.53	15.07.2013	17.07.2028	Uhosv
ING Bank N.V.	XS1053594385	Floating	EIEUR6M + 1.6102	04.04.2014	04.04.2024	Uhosv
ING Bank N.V.	XS1805257265	Fix	0.88	11.04.2018	11.04.2028	Uhosv
ING Bank N.V.	XS1853269428	Fix	1.45	06.07.2018	06.07.2038	Uhosv
ING Bank N.V.	XS1884009140	Fix	1.39	25.09.2018	25.09.2034	Uhosv
ING Bank N.V.	XS1936919437	Fix	1.56	17.01.2019	17.01.2039	Uhosv
ING Bank N.V.	XS1937717186	Fix	1.56	21.01.2019	21.01.2039	Uhosv
ING Bank N.V.	XS1938391262	Fix	1.56	22.01.2019	22.01.2039	Uhosv
ING Bank N.V.	XS1940195560	Fix	1.55	25.01.2019	23.06.2039	Uhosv
ING Bank N.V.	XS1952576475	Fix	0.75	18.02.2019	18.02.2029	Uhosv
ING Bank N.V.	XS2418730995	Fix	0.13	08.12.2021	08.12.2031	Uhosv
ING Bank N.V.	XS2445188423	Fix	0.50	17.02.2022	17.02.2027	Uhosv
ING Bank N.V.	XS2445188852	Fix	1.00	17.02.2022	17.02.2037	Uhosv
ING Bank N.V.	XS2534912485	Fix	2.50	21.09.2022	21.02.2030	Uhosv
ING Bank N.V.	XS2557551889	Fix	2.75	21.11.2022	21.11.2025	Uhosv
ING Bank N.V.	XS2585966257	Fix	3.00	15.02.2023	15.02.2026	Uhosv
ING Bank N.V.	XS2585966505	Fix	3.00	15.02.2023	15.02.2033	Uhosv
ING Bank N.V.	XS2744125001	Fix	2.63	10.01.2024	10.01.2028	Uhosv
ING Bank N.V.	XS2744125266	Fix	2.75	10.01.2024	10.01.2032	Uhosv

ING Bank N.V.

Mortgage Covered Bond (Hard & Soft Bullet) Program

Creditreform C 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 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	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 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 © Crediterorm Rating AG 24.05.2024	CRA	Final rating and outlook of the covered bond program 5/8

ING Bank N.V.

Mortgage Covered Bond (Hard & Soft Bullet) Program

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Field Name	Source	Definition
Metrics date	CRA	The date on which CRA assigned the initial / follow-up rating of the covered bond program, as well as the propreitary metrics to determine the rating of the covered bonds 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
Asset-sale discount stressed	CRA	Stressed Asset value haircuts of the main collateral asset class represented by the base case stressed scenario
Yield Spread stressed	CRA	Stressed positive yield spreads between covered bonds and cover assets represented by the base case stressed scenario
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
Public sector assets	Issuer	Outstanding public sector 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
Residential mortgage value	Issuer	Outstanding residential mortgage loans in the cover pool expressed in millions
Commercial mortgage value	Issuer	Outstanding commercial mortgage loans in the cover pool expressed in millions
Other mortgage value	Issuer	Outstanding other mortgage loans in the cover pool expressed in millions
Loans (Public Sector)	Issuer	Outstanding loans among public sector assets expressed in millions
Bonds (Public Sector)	Issuer	Outstanding bonds among public sector assets expressed in millions
Other (Public sector)	Issuer	Outstanding other loans among public sector assets expressed in millions
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.)	Issuer	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)	Issuer	Nominal value of the exposures to/ guaranteed by Supranational, Sovereign, Agency (SSA) in the substitute asssets expressed in millions
of which Exposures to central banks	Issuer	Nominal value of the exposures to central banks in the substitute asssets expressed in millions
of which Exposures to credit institutions	Issuer	Nominal value of the exposures to credit institutions in the substitute asssets expressed in millions
of which Other	Issuer	Nominal value of the other type of exposures in the substitute asssets expressed in millions
Total number of exposures	Issuer	Total number of public sector exposures or total number of mortgage loans in the cover assets
Arrears % of public sector assets	Issuer	Percentage of public sector loans with arrears
Arrears % of residential loans	Issuer	Percentage of residential mortgage loans with arrears
Arrears % of commercial loans	Issuer	Percentage of commercial mortgage loans with arrears
1-<30 days	Issuer	Percentage of loans with arrears of less than 30 days
30-<60 days	Issuer	Percentage of loans with arrears between 30 and 60 days
60-<90 days	Issuer	Percentage of loans with arrears between 60 and 90 days
90-<180 days	Issuer	Percentage of loans with arrears between 90 and 180 days
>= 180 days	Issuer	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 months

ING Bank N.V.

Mortgage Covered Bond (Hard & Soft Bullet) Program

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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

ING Bank N.V.

Mortgage Covered Bond (Hard & Soft Bullet) Program

Creditreform C Rating

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