

Publication according to section 28 para. 1 nos. 1 and 3 Pfandbrief Act

Pfandbriefe outstanding and their cover

Q4 2016

Outstanding total		nominal value		net present value		risk-adjusted net present value*	
		Q4 2016	Q4 2015	Q4 2016	Q4 2015	Q4 2016	Q4 2015
Mortgage Pfandbriefe	(€ mn.)	10,253.0	10,503.2	10,802.3	11,103.0	9,441.3	10,615.2
of which derivatives	(€ mn.)	-	-	-	-	-	-
Cover Pool	(€ mn.)	13,054.9	12,482.6	14,239.6	13,715.0	12,823.7	13,109.4
of which derivatives	(€ mn.)	-	-	-	-	-	-
Over Collateralization (OC)	(€ mn.)	2,801.9	1,979.4	3,437.3	2,612.0	3,382.4	2,494.2
OC in % of Pfandbriefe outstanding		27.3	18.8	31.8	23.5	35.8	23.5
Over-Collateralization in Consideration of vdp-Credit-Quality-Differentiation-Model	(€ mn.)	2,801.9	1,979.4	3,437.4	2,612.0		
OC in % of Pfandbriefe outstanding		27.3	18.8	31.8	23.5		

* The dynamic approach was used for calculating the risk-adjusted net present value according to section 5 para. 1 no. 2 of the Net Present Value Regulation (PfandBarwertV).

Outstanding total		nominal value		net present value		risk-adjusted net present value*	
		Q4 2016	Q4 2015	Q4 2016	Q4 2015	Q4 2016	Q4 2015
Public Pfandbriefe	(€ mn.)	8,118.8	11,868.1	10,353.0	14,263.7	8,939.8	13,156.1
of which derivatives	(€ mn.)	-	-	-	-	-	-
Cover Pool	(€ mn.)	9,863.4	13,689.6	12,268.9	16,655.6	10,725.3	15,208.5
of which derivatives	(€ mn.)	-	-	-	-	-	-
Over Collateralization (OC)	(€ mn.)	1,744.6	1,821.5	1,915.9	2,391.9	1,785.5	2,052.4
OC in % of Pfandbriefe outstanding		21.5	15.3	18.5	16.8	20.0	15.6
Over Collateralization in Consideration of vdp-Credit-Quality-Differentiation-Model	(€ mn.)	1,714.6	1,782.5	1,882.2	2,349.7		
OC in % of Pfandbriefe outstanding		21.1	15.0	18.2	16.5		

* The dynamic approach was used for calculating the risk-adjusted net present value according to section 5 para. 1 no. 2 of the Net Present Value Regulation (PfandBarwertV).

Note: The release of the over collateralization with a view to the vdp-credit quality differentiation model is voluntary.

**Maturity structure of Pfandbriefe outstanding and their respective cover pools
Q4 2016**

Mortgage Pfandbriefe	Q4 2016		Q4 2015	
	Pfandbriefe outstanding € mn.	Cover pool € mn.	Pfandbriefe outstanding € mn.	Cover pool € mn.
Maturity:				
<= 0,5 years	426.0	717.9	1,153.7	984.9
> 0,5 years and <= 1 year	1,078.5	1,411.6	724.0	850.1
> 1 year and <= 1,5 years	477.8	724.5	436.0	625.9
> 1,5 years and <= 2 years	931.0	864.1	1,053.5	1,138.0
> 2 years and <= 3 years	1,408.7	1,435.7	1,408.8	1,763.4
> 3 years and <= 4 years	816.5	1,381.4	1,408.7	1,440.2
> 4 years and <= 5 years	1,214.0	1,362.3	816.5	1,266.0
> 5 years and <= 10 years	3,853.0	4,932.1	3,450.0	4,181.3
> 10 years	47.5	225.0	52.0	232.8

Public Pfandbriefe	Q4 2016		Q4 2015	
	Pfandbriefe outstanding € mn.	Cover pool € mn.	Pfandbriefe outstanding € mn.	Cover pool € mn.
Maturity:				
<= 0,5 years	723.6	718.8	942.1	1,008.5
> 0,5 years and <= 1 year	128.7	814.5	2,821.7	1,378.9
> 1 year and <= 1,5 years	172.2	569.2	718.4	849.7
> 1,5 years and <= 2 years	514.3	456.5	128.7	1,384.2
> 2 years and <= 3 years	524.3	779.9	686.4	1,094.8
> 3 years and <= 4 years	1,004.5	675.5	524.3	763.0
> 4 years and <= 5 years	426.1	501.8	1,004.5	701.8
> 5 years and <= 10 years	2,567.6	2,629.8	2,415.5	2,934.9
> 10 years	2,057.6	2,717.4	2,626.6	3,573.7

Publication according to section 28 para. 2 no. 1 a Pfandbrief Act, section 28 para. 3 no. 1 Pfandbrief Act and section 28 para. 4 no. 1 a Pfandbrief Act

**Mortgage loans used as cover for Mortgage Pfandbriefe according to their amount in tranches
Q4 2016**

Cover Assets	Q4 2016 € mn.	Q4 2015 € mn.
up to 300,000 Euros	1,652.4	2,250.7
more than 300,000 Euros up to 1 mn. Euros	214.9	270.3
more than 1 mn. Euros up to 10 mn. Euros	3,682.0	3,725.8
more than 10 mn. Euros	6,886.6	5,793.8
Total	12,435.9	12,040.6

**Cover Assets used to secure public Pfandbriefe according to their amount in tranches
Q4 2016**

Cover Assets	Q4 2016 € mn.	Q4 2015 € mn.
up to 10 mn. Euros	4,398.1	4,752.6
more than 10 mn. Euros up to 100 mn. Euros	2,859.8	3,284.1
more than 100 mn. Euros	2,586.8	5,294.4
Total	9,844.7	13,331.1

Volume of claims used to cover Mortgage Pfandbriefe according to states in which the real property is located, according to property type and the total amount of payments in arrears for at least 90 days as well as the total amount of these claims inasmuch as the respective amount in arrears is at least 5 percent of the claim

Q4 2016

Cover assets																Total amount of payments in arrears for at least 90 days	Total amount of these claims inasmuch as the respective amount in arrears is at least 5 percent of the claim
State	Q4	Total		Residential					Commercial								
		€ mn.	€ mn.	Apartments	Single-and two-family houses	Multiple-family houses	Buildings under construction	Building land	Total	Office buildings	Retail buildings	Industrial buildings	other commercially used buildings	Buildings under construction	Building land		
Total - all states	year 2016	12,436.0	3,871.8	297.8	969.4	2,586.8	17.8	-	8,564.2	3,493.1	2,842.6	59.5	2,131.7	37.3	-	0.6	0.8
	year 2015	12,040.5	4,171.7	405.2	1,334.7	2,409.4	22.3	0.1	7,868.8	3,157.5	2,522.0	64.5	2,007.4	117.4	-	3.2	4.4
Germany	year 2016	11,545.9	3,855.2	297.6	966.6	2,573.2	17.8	-	7,690.7	2,948.4	2,550.1	59.5	2,095.4	37.3	-	0.6	0.6
	year 2015	11,074.4	4,153.3	404.9	1,331.1	2,394.9	22.3	0.1	6,921.1	2,539.1	2,228.4	64.5	1,971.7	117.4	-	3.2	4.3
Austria	year 2016	3.3	0.1	-	0.1	-	-	-	3.2	3.2	-	-	-	-	-	-	-
	year 2015	3.5	0.3	0.1	0.2	-	-	-	3.2	3.2	-	-	-	-	-	-	-
Belgium	year 2016	0.1	0.1	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	year 2015	0.1	0.1	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-
Finland	year 2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	year 2015	10.0	-	-	-	-	-	-	10.0	10.0	-	-	-	-	-	-	-
France	year 2016	254.1	16.3	0.2	2.5	13.6	-	-	237.8	160.5	77.3	-	-	-	-	-	0.2
	year 2015	268.4	17.9	0.2	3.2	14.5	-	-	250.5	176.8	73.7	-	-	-	-	-	0.1
Great Britain	year 2016	168.6	-	-	-	-	-	-	168.6	128.5	40.1	-	-	-	-	-	-
	year 2015	195.3	-	-	-	-	-	-	195.3	143.5	51.8	-	-	-	-	-	-
Hungary	year 2016	41.1	-	-	-	-	-	-	41.1	-	41.1	-	-	-	-	-	-
	year 2015	42.0	-	-	-	-	-	-	42.0	-	42.0	-	-	-	-	-	-
Netherlands	year 2016	295.9	0.1	-	0.1	-	-	-	295.8	205.6	71.9	-	18.3	-	-	-	-
	year 2015	256.2	0.1	-	0.1	-	-	-	256.1	209.9	27.9	-	18.3	-	-	-	-
Poland	year 2016	53.7	-	-	-	-	-	-	53.7	-	53.7	-	-	-	-	-	-
	year 2015	89.5	-	-	-	-	-	-	89.5	-	89.5	-	-	-	-	-	-
Sweden	year 2016	8.4	-	-	-	-	-	-	8.4	-	8.4	-	-	-	-	-	-
	year 2015	8.7	-	-	-	-	-	-	8.7	-	8.7	-	-	-	-	-	-
USA	year 2016	64.9	-	-	-	-	-	-	64.9	46.9	-	-	18.0	-	-	-	-
	year 2015	92.4	-	-	-	-	-	-	92.4	75.0	-	-	17.4	-	-	-	-

**Volume of claims used to cover Public Pfandbriefe
Q4 2016**

		Cover assets					
		Total	in the total included claims which are granted for reasons of promoting exports	thereof owed by			
				State	Regional authorities	Local authorities	Other debtors
State	Q4	€ mn.	€ mn.	€ mn.	€ mn.	€ mn.	€ mn.
Total - all states	year 2016	8,951.3	-	665.0	2,178.4	5,429.6	678.3
	year 2015	13,689.6	-	1,489.7	4,631.2	6,481.9	1,086.8
Germany	year 2016	6,582.4	-	-	972.9	5,249.3	360.2
	year 2015	9,154.2	-	88.1	2,512.0	5,974.0	580.1
Austria	year 2016	250.0	-	150.0	-	-	100.0
	year 2015	270.0	-	170.0	-	-	100.0
Belgium	year 2016	30.0	-	30.0	-	-	-
	year 2015	87.5	-	30.0	57.5	-	-
Great Britain	year 2016	-	-	-	-	-	-
	year 2015	75.0	-	75.0	-	-	-
Italy	year 2016	622.2	-	435.0	87.2	100.0	-
	year 2015	1,059.6	-	841.6	113.2	104.8	-
Luxembourg	year 2016	118.1	-	-	-	-	118.1
	year 2015	306.7	-	-	-	-	306.7
Poland	year 2016	-	-	-	-	-	-
	year 2015	5.0	-	5.0	-	-	-
Portugal	year 2016	50.0	-	50.0	-	-	-
	year 2015	325.0	-	250.0	-	75.0	-
Slovenia	year 2016	-	-	-	-	-	-
	year 2015	30.0	-	30.0	-	-	-
Spain	year 2016	674.8	-	-	594.5	80.3	-
	year 2015	1,494.2	-	-	1,166.1	328.1	-
Canada	year 2016	286.3	-	-	286.3	-	-
	year 2015	519.4	-	-	519.4	-	-
Switzerland	year 2016	337.5	-	-	237.5	-	100.0
	year 2015	363.0	-	-	263.0	-	100.0

Note: The splitting of the cover assets will be stated from the first quarter 2016 onwards.

thereof granted by			
State	Regional authorities	Local authorities	Other debtors
€ mn.	€ mn.	€ mn.	€ mn.
252.5	321.0	313.4	6.7
-	-	-	-
51.1	119.2	289.1	6.7
-	-	-	-
-	-	-	-
-	-	-	-
-	55.8	-	-
-	-	-	-
-	-	-	-
-	-	-	-
1.4	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
200.0	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	24.2	-
-	-	-	-
-	145.9	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Publication according to section 28 para. 3 no. 3 Pfandbrief Act

**Total amount of payments in arrears for at least 90 days
as well as the total amount of these claims inasmuch as the respective amount in arrears is at least 5 percent of the claim
Q4 2016**

		Amount of claims in arrears for at least 90 days					Total amount of these claims inasmuch as the respective amount in arrears is at least 5 % of the claim				
		Total	thereof				Total	thereof			
			State	Regional authorities	Local authorities	Other debtors		State	Regional authorities	Local authorities	Other debtors
State	Q4	€ mn.	€ mn.	€ mn.	€ mn.	€ mn.	€ mn.	€ mn.	€ mn.	€ mn.	€ mn.
Total - all states	year 2016	-	-	-	-	-	-	-	-	-	-
	year 2015	0.8	-	0.8	-	-	1.3	-	1.3	-	-
Germany	year 2016	-	-	-	-	-	-	-	-	-	-
	year 2015	0.8	-	0.8	-	-	1.3	-	1.3	-	-
Austria	year 2016	-	-	-	-	-	-	-	-	-	-
	year 2015	-	-	-	-	-	-	-	-	-	-
Belgium	year 2016	-	-	-	-	-	-	-	-	-	-
	year 2015	-	-	-	-	-	-	-	-	-	-
Great Britain	year 2016	-	-	-	-	-	-	-	-	-	-
	year 2015	-	-	-	-	-	-	-	-	-	-
Italy	year 2016	-	-	-	-	-	-	-	-	-	-
	year 2015	-	-	-	-	-	-	-	-	-	-
Luxembourg	year 2016	-	-	-	-	-	-	-	-	-	-
	year 2015	-	-	-	-	-	-	-	-	-	-
Poland	year 2016	-	-	-	-	-	-	-	-	-	-
	year 2015	-	-	-	-	-	-	-	-	-	-
Portugal	year 2016	-	-	-	-	-	-	-	-	-	-
	year 2015	-	-	-	-	-	-	-	-	-	-
Slovenia	year 2016	-	-	-	-	-	-	-	-	-	-
	year 2015	-	-	-	-	-	-	-	-	-	-
Spain	year 2016	-	-	-	-	-	-	-	-	-	-
	year 2015	-	-	-	-	-	-	-	-	-	-
Canada	year 2016	-	-	-	-	-	-	-	-	-	-
	year 2015	-	-	-	-	-	-	-	-	-	-
Switzerland	year 2016	-	-	-	-	-	-	-	-	-	-
	year 2015	-	-	-	-	-	-	-	-	-	-

Publication according to section 28 para. 1 nos. 4, 5 and 6 Pfandbrief Act

Further cover assets - in detail for Mortgage Pfandbriefe
Q4 2016

Further cover assets for Mortgage Pfandbriefe according to section 19 para. 1 nos. 1, 2 and 3 Pfandbrief Act						
State	Q4	€ mn.	thereof			€ mn.
			equalization claims according to section 19 para. 1 no. 1	claims according to section 19 para. 1 no. 2 overall	claims according to section 19 para. 1 no. 3	
					thereof	
					Covered Bonds according to Article 129 Regulation (EU) Nr. 575/2013	
Total - all states	Jahr 2016	619.0	-	-	-	619.0
	Jahr 2015	442.0	-	-	-	442.0
Germany	Jahr 2016	619.0	-	-	-	619.0
	Jahr 2015	442.0	-	-	-	442.0

Publication according to section 28 para. 1 nos. 4 and 5 Pfandbrief Act

Further cover assets - in detail for Public Pfandbriefe

Q4 2016

Further cover assets for Public Pfandbriefe according to section 20 para. 2 nos. 1 and 2 Pfandbrief Act					
State	Q4	Total	thereof		
			equalization claims according to section 20 para. 2 no. 1	claims according to section 20 para. 2 no. 2 overall	thereof Covered Bonds according to Article 129 Regulation (EU) Nr. 575/2013
		€ mn.	€ mn.	€ mn.	€ mn.
Total - all states	Jahr 2016	18.6	-	18.6	-
	Jahr 2015	358.5	-	358.5	-
Germany	Jahr 2016	18.6	-	18.6	-
	Jahr 2015	188.5	-	188.5	-
Luxembourg	Jahr 2016	-	-	-	-
	Jahr 2015	170.0	-	170.0	-

Publication according to section 28 para. 1 nos.7, 8, 9, 10 and 11 Pfandbrief Act and section 28 para. 2 no. 3 Pfandbrief Act

**Key figures about outstanding Pfandbriefe and Cover Pool
Q4 2016**

Mortgage Pfandbriefe

		Q4 2016	Q4 2015
Outstanding Pfandbriefe	(€ mn.)	10,253.0	10,503.2
thereof percentage share of fixed-rate Pfandbriefe section 28 para. 1 no. 9	%	84.0	78.0
Cover Pool	(€ mn.)	13,054.9	12,482.6
thereof total amount of the claims which exceed the limits laid down in § 13 para. 1 section 28 para. 1 no. 7	(€ mn.)	-	-
thereof total amount of the claims which exceed the percentage threshold laid down in § 19 para 1 no. 2 section 28 para. 1 no. 8	(€ mn.)	-	-
thereof total amount of the claims which exceed the percentage threshold laid down in § 19 para 1 no. 3 section 28 para. 1 no. 8	(€ mn.)	-	-
thereof percentage share of fixed-rate cover assets section 28 para. 1 no. 9	%	77.0	76.0
Net present value pursuant to § 6 of the Pfandbruef Net Present Value Regulation for each foreign currency in Euro section 28 para. 1 no. 10 (Net Total)	CAD	-	-
	CHF	30.1	32.1
	CZK	-	-
	DKK	-	-
	GBP	182.8	214.4
	HKD	-	-
	JPY	-	-
	NOK	-	-
	SEK	9.2	8.7
	USD	68.4	105.5
	AUD	-	-
volume-weighted average of the maturity that has passed since the loan was granted (seasoning) section 28 para. 1 no. 11	years	4.9	5.6
average loan-to-value ratio, weighted using the mortgage lending value section 28 para. 2 no. 3 *	%	55.0	54.0
average loan-to-value ratio, weighted using the market value	%	-	-

*Change of calculation methodology due to adjustment of PfandBG for Q 2 2015

Public Pfandbriefe

		Q4 2016	Q4 2015
Outstanding Pfandbriefe	(€ mn.)	8,118.8	11,868.1
thereof percentage share of fixed-rate Pfandbriefe section 28 para. 1 no. 9	%	94.0	96.0
Cover Pool	(€ mn.)	9,863.4	13,689.6
thereof total amount of the claims which exceed the percentage threshold laid down in § 20 para 2 section 28 para. 1 no. 8	(€ mn.)	-	-
thereof percentage share of fixed-rate cover assets section 28 para. 1 no. 9	%	90.0	91.0
Net present value pursuant to § 6 of the Pfandbruef Net Present Value Regulation for each foreign currency in Euro section 28 para. 1 no. 10 (Net Total)	CAD	-	-
	CHF	56.3	61.1
	CZK	-	-
	DKK	-	-
	GBP	-	-
	HKD	-	-
	JPY	-	-
	NOK	-	-
	SEK	-	-
	USD	163.0	366.7
AUD	-	-	