

LCH SA - Risk Notice – Cash/Derivatives, Fixed Income, €GCPPlus, CDS - Eligible Securities for Bilateral Collateral Solution/Applicable Haircuts		Haircuts on 01/11/2019		
Eligible Government Securities		Buckets	Haircuts* (Conventional Bonds)	Haircuts* (Inflation Linked Bonds)
Class I (France)	Debt Securities issued by the French state: • Treasury bills (BTFs) issued for 13, 26 or 52 weeks with a minimum nominal value of EURO 100,000 (BTF); • Annual fixed interest rate Treasury notes (BTANS) with a minimum nominal value of EURO 100,000 (BTNS); • Fungible Treasury Bonds (OATs and OATIs) for a minimum nominal value of EURO 100,000 (FRTR).	4 business days and < 0,5 year	0,50%	0,50%
		>= 0.5 and < 1 year	0,50%	0,75%
		>= 1 and < 3 years	1,25%	2,00%
		>= 3 and < 5 years	2,00%	2,75%
		>= 5 and < 7 years	2,25%	4,00%
		>= 7 and < 10 years	3,25%	5,00%
		>= 10 and < 15 years	5,50%	6,25%
		>= 15 and < 30 years	11,50%	14,00%
		More than 30 years	15,50%	18,75%
		Class II (Belgium)	Debt Securities issued by the Belgian state: • Belgian Treasury Certificates for a minimum nominal value of EURO 100,000 (BGTB); • Belgium Bonds and Belgium Treasury Bonds (BGB); • Belgian Linear bonds (OLOs) for a minimum nominal value of EURO 100,000 (OLO).	4 business days and < 0,5 year
>= 0.5 and < 1 year	1,00%			N/A
>= 1 and < 3 years	2,00%			N/A
>= 3 and < 5 years	2,75%			N/A
>= 5 and < 7 years	4,25%			N/A
>= 7 and < 10 years	5,25%			N/A
>= 10 and < 15 years	7,00%			N/A
>= 15 and < 30 years	14,00%			N/A
More than 30 years	18,50%			N/A
Class III (Portugal)	Debt securities issued by the Portuguese state for a minimum nominal value of EURO 100,000 (PGB).			3 business days and < 0,5 year
		>= 0.5 and < 1 year	11,50%	N/A
		>= 1 and < 3 years	21,25%	N/A
		>= 3 and < 5 years	27,25%	N/A
		>= 5 and < 7 years	32,25%	N/A
		>= 7 and < 10 years	32,25%	N/A
		>= 10 and < 15 years	32,25%	N/A
		>= 15 and < 30 years	47,00%	N/A
		More than 30 years	54,00%	N/A
		Class IV (UK)	Debt Securities issued by the United Kingdom state: • Gilts for a minimum nominal value of GBP 100,000 (UKT).	9 business days and < 0,5 year
>= 0.5 and < 1 year	6,10%			N/A
>= 1 and < 3 years	6,90%			N/A
>= 3 and < 5 years	7,90%			N/A
>= 5 and < 7 years	8,40%			N/A
>= 7 and < 10 years	10,40%			N/A
>= 10 and < 15 years	12,90%			N/A
>= 15 and < 30 years	18,90%			N/A
More than 30 years	23,40%			N/A
Class V (Italy)	Debt Securities issued by the Italian state: • Treasury bills with a minimum nominal value of EURO 100,000 (BOTS, BTPS, BTPis); • Certificates of Treasury with a minimum nominal value of EURO 100,000 (CCTS).			3 business days and < 0,5 year
		>= 0.5 and < 1 year	6,00%	6,00%
		>= 1 and < 3 years	7,00%	7,00%
		>= 3 and < 5 years	9,00%	10,00%
		>= 5 and < 7 years	10,50%	12,00%
		>= 7 and < 10 years	11,50%	14,25%
		>= 10 and < 15 years	13,00%	15,75%
		>= 15 and < 30 years	21,75%	21,75%
		More than 30 years	26,50%	26,50%
		Class VI (Spain)	Debt Securities issued by the Spanish state: • Letras del Tesoro (LET) for a minimum nominal value of EURO 100,000 (SGLT); • Bonos del estado (BON) for a minimum nominal value of EURO 100,000 (SPGB); • Obligaciones del estado (OBE) for a minimum nominal value of EURO 100,000 (SPGB).	3 business days and < 0,5 year
>= 0.5 and < 1 year	3,00%			N/A
>= 1 and < 3 years	6,50%			N/A
>= 3 and < 5 years	9,25%			N/A
>= 5 and < 7 years	10,50%			N/A
>= 7 and < 10 years	12,25%			N/A
>= 10 and < 15 years	15,25%			N/A
>= 15 and < 30 years	25,50%			N/A
More than 30 years	31,50%			N/A
Class VII (USA)	Debt Securities issued by the United State of America (USA): • US Treasury Bills with a minimum nominal value of USD 250,000 (B).			3 business days and < 0,5 year
		>= 0.5 and < 1 year	5,50%	N/A
		>= 1 and < 3 years	6,30%	N/A
		>= 3 and < 5 years	7,30%	N/A
		>= 5 and < 7 years	8,30%	N/A
		>= 7 and < 10 years	9,80%	N/A
		>= 10 and < 15 years	12,30%	N/A
		>= 15 and < 30 years	21,05%	N/A
		More than 30 years	26,80%	N/A
		Class VIII (Germany)	Debt Securities issued by the German Federal State: • Bunds with a minimum nominal value of EURO 100,000 (BUBILL, BKO, OBL, OBLI, DBR, DBRI).	3 business days and < 0,5 year
>= 0.5 and < 1 year	0,50%			0,50%
>= 1 and < 3 years	1,00%			1,00%
>= 3 and < 5 years	1,75%			2,00%
>= 5 and < 7 years	2,25%			2,25%
>= 7 and < 10 years	3,25%			4,25%
>= 10 and < 15 years	5,00%			6,50%
>= 15 and < 30 years	11,25%			11,25%
More than 30 years	15,00%			15,00%
Class IX (Netherlands)	Debt Securities issued by the Dutch State: • Debt Securities for a minimum nominal value of EURO 100,000 (NETHER); • Dutch Treasury certificates for a minimum nominal value of EURO 100,000 (DTC).			10 business days and < 0,5 year
		>= 0.5 and < 1 year	0,50%	N/A
		>= 1 and < 3 years	1,00%	N/A
		>= 3 and < 5 years	1,75%	N/A
		>= 5 and < 7 years	2,25%	N/A
		>= 7 and < 10 years	3,00%	N/A
		>= 10 and < 15 years	5,00%	N/A
		>= 15 and < 30 years	11,00%	N/A
		More than 30 years	14,75%	N/A
		Class X (Austria)	Debt Securities issued by the Austrian State: • Debt Securities for a minimum nominal value of EURO 100,000 (RAGB).	4 business days and < 0,5 year
>= 0.5 and < 1 year	0,75%			N/A
>= 1 and < 3 years	1,50%			N/A
>= 3 and < 5 years	2,50%			N/A
>= 5 and < 7 years	3,00%			N/A
>= 7 and < 10 years	3,75%			N/A
>= 10 and < 15 years	5,25%			N/A
>= 15 and < 30 years	12,25%			N/A
More than 30 years	16,50%			N/A
Class XI (Finland)	Debt Securities issued by the Finnish State: • Debt Securities for a minimum nominal value of EURO 100,000 (RFGB).			4 business days and < 0,5 year
		>= 0.5 and < 1 year	0,50%	N/A
		>= 1 and < 3 years	1,00%	N/A
		>= 3 and < 5 years	1,75%	N/A
		>= 5 and < 7 years	2,25%	N/A
		>= 7 and < 10 years	3,00%	N/A
		>= 10 and < 15 years	5,00%	N/A
		>= 15 and < 30 years	11,25%	N/A
		More than 30 years	15,00%	N/A

Eligible Securities (Supra & Agencies)		Buckets	Haircuts*	Haircuts*(Inflation Linked Bonds)
Class XII (European Financial Stability Facility)	Debt securities issued by the European Financial Stability Facility for a minimum nominal value of EURO 100,000 (EFSF).	4 business days and < 0,5 year	1,50%	N/A
		>= 0.5 and < 1 year	1,50%	N/A
		>= 1 and < 3 years	2,50%	N/A
		>= 3 and < 5 years	3,00%	N/A
		>= 5 and < 7 years	3,75%	N/A
		>= 7 and < 10 years	8,00%	N/A
		>= 10 and < 15 years	8,25%	N/A
		>= 15 and < 30 years	16,50%	N/A
		More than 30 years	N/A	N/A
		Class XIII (European Investment Bank)	Debt securities issued by the European Investment Bank for a minimum nominal value of EURO 100,000 (EIB).	9 business days and < 0,5 year
>= 0.5 and < 1 year	1,00%			N/A
>= 1 and < 3 years	2,50%			N/A
>= 3 and < 5 years	3,50%			N/A
>= 5 and < 7 years	4,50%			N/A
>= 7 and < 10 years	8,00%			N/A
>= 10 and < 15 years	11,50%			N/A
>= 15 and < 30 years	16,25%			N/A
More than 30 years	N/A			N/A
Class XIV (European Union)	Debt securities issued by the European Union for a minimum nominal value of EURO 100,000 (EU).			12 business days and < 0,5 year
		>= 0.5 and < 1 year	1,00%	N/A
		>= 1 and < 3 years	1,75%	N/A
		>= 3 and < 5 years	2,75%	N/A
		>= 5 and < 7 years	4,50%	N/A
		>= 7 and < 10 years	8,00%	N/A
		>= 10 and < 15 years	8,00%	N/A
		>= 15 and < 30 years	15,25%	N/A
		More than 30 years	N/A	N/A
		Class XV (International Bank for Reconstruction and Development)	Debt securities issued by the International Bank for Reconstruction and Development for a minimum nominal value of EURO 100,000 (IBRD).	12 business days and < 0,5 year
>= 0.5 and < 1 year	1,00%			N/A
>= 1 and < 3 years	1,75%			N/A
>= 3 and < 5 years	2,75%			N/A
>= 5 and < 7 years	4,50%			N/A
>= 7 and < 10 years	8,00%			N/A
>= 10 and < 15 years	8,00%			N/A
>= 15 and < 30 years	15,25%			N/A
More than 30 years	N/A			N/A
Class XV (European Stability Mechanism)	Debt securities issued by the European Stability Mechanism for a minimum nominal value of EURO 100,000 (ESM).			4 business days and < 0,5 year
		>= 0.5 and < 1 year	1,00%	N/A
		>= 1 and < 3 years	1,50%	N/A
		>= 3 and < 5 years	2,75%	N/A
		>= 5 and < 7 years	3,50%	N/A
		>= 7 and < 10 years	4,50%	N/A
		>= 10 and < 15 years	8,00%	N/A
		>= 15 and < 30 years	16,50%	N/A
		More than 30 years	N/A	N/A
		Class XVI (Landwirtschaftliche Rentenbank)	Debt securities issued by the Landwirtschaftliche Rentenbank for a minimum nominal value of EURO 100,000 (RENTEN).	2 business days and < 0,5 year
>= 0.5 and < 1 year	1,25%			N/A
>= 1 and < 3 years	1,50%			N/A
>= 3 and < 5 years	2,75%			N/A
>= 5 and < 7 years	3,50%			N/A
>= 7 and < 10 years	4,50%			N/A
>= 10 and < 15 years	8,00%			N/A
>= 15 and < 30 years	14,00%			N/A
More than 30 years	N/A			N/A
Class XVII (Kreditanstalt für Wiederaufbau)	Debt securities issued by the Kreditanstalt für Wiederaufbau for a minimum nominal value of EURO 100,000 (KfW).			3 business days and < 0,5 year
		>= 0.5 and < 1 year	1,25%	N/A
		>= 1 and < 3 years	1,50%	N/A
		>= 3 and < 5 years	2,75%	N/A
		>= 5 and < 7 years	3,50%	N/A
		>= 7 and < 10 years	4,50%	N/A
		>= 10 and < 15 years	8,00%	N/A
		>= 15 and < 30 years	14,00%	N/A
		More than 30 years	N/A	N/A

*For the most up-to-date version on the haircuts schedule, please log into one of the following secure areas: https://secure-area.lchclearnet.com/secure_area/Default.asp

Other provisions

Equities	<ul style="list-style-type: none">• Stocks incorporated European index EURO STOXX 50 (Excluding Banking & Insurance stocks) within the limits set out by LCH SA;• An haircut of 35 % is applied on shares accepted as collateral;• Equity Securities not accepted for CDS Clear Margins;• Equity Securities are not eligible for Pledge solution.
Haircut allocation rule	For non-cash collateral lodged using bilateral solution, the haircut allocation is determined using the Modified Duration.
FX Haircut	For payment in USD and GBP, LCH SA applies a haircut on the equivalent in EURO calculated from the currency exchange rate: a 5.4% incremental for payment in GBP and 4.8% incremental FX haircut for payment in USD.
Additional Haircuts	Certain collateral can from time to time be subject to additional haircuts above those stated.
Excluded bonds instruments	LCH SA deems non eligible the following securities : <ul style="list-style-type: none">• Zero Coupon bonds, strips bonds and perpetual bonds, at the exception of those listed in a Notice ;• German bonds indexed on inflation 5Y and 10Y ;
Concentration Limits	LCH SA reserves the right to manage specific concentrations in margin collateral in all circumstances. Where positions are considered to be excessively concentrated, members will be contacted directly with a view to re-alignment of their portfolio.