

prEN 15685:2024 – Mechanical multipoint locks Classification key



The classification reached by the product is shown on the product itself or on the minimum packaging and in the certificate issued by an independent body

Category of use (1st digit)

grade 1: for use by people with a high incentive to exercise care and with a small chance of misuse (e.g. residential doors)

grade 2: for use by people with some incentive to exercise care but where there is some chance of misuse (e.g. office doors)

grade 3: for use by the public where there is little incentive to exercise care and where there is a high chance of misuse (e.g.

doors in public buildings)

Durability (2nd digit)

24 45 66							
	Latch bolt		Shared latch action			Deadbolt	
	by handle	Load	by key	by handle	Load	Manual by key	Self-locking
grade A:	50 000 cycles	0 N	12.500 cycles	37.500 cycles	0 N	12.500 cycles	50 000 cycles
grade B:	100 000 cycles	0 N	25.000 cycles	75.000 cycles	0 N	25.000 cycles	100 000 cycles
grade C:	200 000 cycles	0 N	50.000 cycles	150.000 cycles	0 N	50.000 cycles	200 000 cycles
grade G:	100 000 cycles	10 N	25.000 cycles	75.000 cycles	10 N	25.000 cycles	100 000 cycles
grade H:	200 000 cycles	10 N	50.000 cycles	150.000 cycles	10 N	50.000 cycles	200 000 cycles
grade L:	100 000 cycles	25 N	25.000 cycles	75.000 cycles	25 N	25.000 cycles	100 000 cycles
grade M:	200 000 cycles	25 N	50.000 cycles	150.000 cycles	25 N	50.000 cycles	200 000 cycles
grade R:	100 000 cycles	50 N	25.000 cycles	75.000 cycles	50 N	25.000 cycles	100 000 cycles
grade S:	200 000 cycles	50 N	50.000 cycles	150.000 cycles	50 N	50.000 cycles	200 000 cycles
grade W:	100 000 cycles	120 N	25.000 cycles	75.000 cycles	120 N	25.000 cycles	100 000 cycles
grade X:	200 000 cycles	120 N	50.000 cycles	150.000 cycles	120 N	50.000 cycles	200 000 cycles

Door mass and closing force (3rd digit)

	and crossing force (5° digit)			
	Door mass	Closing force		
grade 0:	Lock without latch bolt	0 ÷ 15 N		
grade 1:	≤ 100 kg			
grade 2:	≤ 200 kg	25 ÷ 50 N		
grade 3:	≥ 200 kg as specified by the manufacturer			
grade 4:	≤ 100 kg			
grade 5:	≤ 200 kg	15 ÷ 25 N		
grade 6:	≥ 200 kg as specified by the manufacturer			
grade 7:	≤ 100 kg			
grade 8:	≤ 200 kg	0 ÷ 15 N		
grade 9:	≥ 200 kg as specified by the manufacturer			

Suitability for use on fire/smoke doors (4th digit)

grade 0: not approved for use on fire/smoke resisting door assemblies

grade A: for use on smoke door assemblies based on the requirements of prEN15685:2009 Annex A grade B: for use on smoke and fire door assemblies based on a test in accordance with EN 1634-1

Safety (5th digit)

grade 0: No Safety requirements

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Corrosion resistance and temperature (6th digit)

	Corrosion resistance		Temperature range
grade 0:	no defined corrosion resistance		no temperature requirement
grade A:	low corrosion resistance	(24h NSS)	no temperature requirement
grade B:	moderate corrosion resistance	(48h NSS)	no temperature requirement
grade C:	high corrosion resistance	(96h NSS)	no temperature requirement
grade D:	very high corrosion resistance	(240h NSS)	no temperature requirement
grade F:	high corrosion resistance	(96h NSS)	-10 ÷ +60 °C
grade G:	very high corrosion resistance	(240h NSS)	-10 ÷ +60 °C

Security for locking points (7th digit)

	side load on locking point	Torque resistance of lockable follower M5	Min. deadbolt projection before F5 application	End load	Resulting projection after F5 application L2	Strong key attack on lever locks
grade 0:	-	-	-	-	-	-
grade 1:	1 kN	-	10 mm	1 kN	8 mm	-
grade 2:	3 kN	-	12 mm	2 kN	10 mm	-
grade 3:	5 kN	100 Nm	14 mm	4 kN	11 mm	100 Nm
grade 4:	7 kN	150 Nm	20 mm	5 kN	17 mm	100 Nm
grade 5:	7 kN / 3 min. drill	150 Nm	20 mm	5 kN / 3 min.	17 mm	100 Nm
				drill		
grade 6:	10 kN	200 Nm	20 mm	6 kN	17 mm	100 Nm
grade 7:	10 kN / 5 min. drill	200 Nm	20 mm	6 kN / 5 min.	17 mm	100 Nm
				drill		

Key identification of lever locks (8th digit)

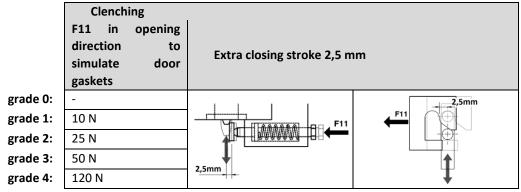
key identification of level locks to digity						
	Min. nr. of detaining	Min. nr. of effective	Min. nr. of differing	Non interpassing	Coding	
	elements	differs	steps height on key	of keys	protection	
grade 0:	No requirements (e.g.	lock operated by cylinde	r according to EN1303 o	r EN15684)		
grade A:	3	100	2	YES	NO	
grade B:	5	1.000	3	YES	YES	
grade C:	5	10.000	3	YES	YES	
grade D:	6	4.000	3	YES	YES	
grade E:	6	20.000	3	YES	YES	
grade F:	7	6.000	4	YES	YES	
grade G:	7	50.000	4	YES	YES	
grade H:	8	100.000	4	YES	YES	

Security for anti-separation points (9th digit)

	Anti-separation projection		Resistance to disengaging force	Resistance to pulling force	Resistance to forcing anti lifting Sliding doors
	L1	H1	F5	F6	F7
grade 0:	-	-	-	-	-
grade 1:	10 mm	5 mm	1 kN	1 kN	1 kN
grade 2:	10 mm	5 mm	2 kN	2 kN	2 kN
grade 3:	10 mm	5 mm	4 kN	5 kN	5 kN
grade 4:	10 mm	5 mm	5 kN	7 kN	7 kN
grade 5:	10 mm	5 mm	5 kN / 3 min. drill	7 kN / 3 min. drill	7 kN / 3 min. drill
grade 6:	10 mm	5 mm	6 kN	10 kN	10 kN
grade 7:	10 mm	5 mm	6 kN / 5 min. drill	10 kN / 5 min. drill	10 kN / 5 min. drill



Clenching points (10th digit)



Durability of clenching

The number of cycles is 75% of latch action