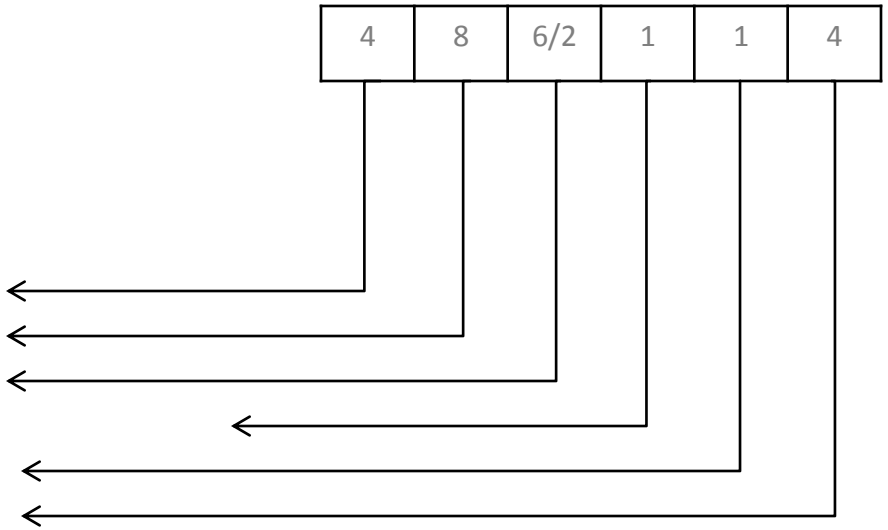
EN 1154

Guide to classification

EN 1154 classifies door closers using a 6 digit coding system.

Each digit refers to a particular feature of the product measured against the standard's performance requirements.



Classification

1) Category of use (grade 3, 4)
2) Number of test cycles (grade 8)
3) Test door mass/size (grade 1-7)
4) Fire behavior (grade 0, 1)
5) Safety (grade 1)
6) Corrosion resistance (grade 0-4)

GEZE TS 5000

EN 1154

Explanation to classification

1. Category of use

Grade 3: For closing doors from at least 105 open.
Grade 4: For closing doors from 180 open.

2. Number of test cycles

Grade 8: 500 000 cycles.

3. Test door mass/size

Seven test door mass grades and related door closer power sizes are identified.
The min. and max. power size must be listed.

4. Fire behaviour

Grade 0: Not suitable for use on fire/smoke door assemblies.
Grade 1: Suitable for use on fire/smoke door assemblies.

5. Safety

Grade 1: All door closer devices are required to satisfy the essential requirement of safety in use.

6. Corrosion resistance

Grade 0: No defined corrosion resistance.
Grade 1: Mild resistance.
Grade 2: Moderate resistance.
Grade 3: High resistance.
Grade 4: Very high resistance.

EN 1154

Explanation to classification

3. Door closer power size

Door closer power size	Recomended door leaf width	Test door mass	Closing moment			Opening moment between 0 and 60	Door closer effiency between 0 and 4
	mm max.	kg	between 0 und 4 Nm / Nm min. / max.	between 88 und 92 Nm min.	Any other angle of opening Nm min.	Nm max.	% min.
1	750	20	9 / 13	3	2	26	50
2	850	40	13 / 18	4	3	36	50
3	950	60	18 / 26	6	4	47	55
4	1.100	80	26 / 37	9	6	62	60
5	1.250	100	37 / 54	12	8	83	65
6	1.400	120	54 / 87	18	11	134	65
7	1.600	160	87 / 140	29	18	215	65

Note 1: Where the actual size and mass of door to which the doorcloser is to be fitted relates to two sizes of doorcloser, the larger power size of door closer should be used.

Note 2: The door widths are for standard installations. In the case of unusually high or hevy doors, windy or draughty conditions, or special installation, a larger size of door closer should be used.