Manufacturer Test Certificate

dormakaba

DORMA-Glas GmbH
Max-Planck-Str. 33-45
D-32107 Bad Salzuflen

Bad Salzuflen 05.01.2017

herewith certifies that the product

MUTO Comfort XL DORMOTION 80/150

Building hardware for manually operated sliding doors with end damping and soft closing

fulfils the following requirements:

Classification DIN EN 1527:2013

	1	2	3	4	5	6	7	8	9
Typ XL 80	**-**	**6***	**2**	**-**	**1**	**4**/2**	**-**	**1**	**2**
Typ XL 150	**-**	**6***	**3**	**-**	**1**	**4**/2**	**-**	**1**	**1**

* excluding the DORMOTION soft closing (wear part)
** refers only to the system without DORMOTION soft closing

DIN EN 1527:2013	
1. Category of use:	No grade identified for these products
2. Durability:	Grade 6 = 100.000 test cycles* 200.000 test cycles according dormakaba Standard*
3. Max door leaf mass XL80: Max door leaf mass XL150:	Grade 2 = 80kg Grade 3 = 150kg
4. Fire resistance:	No grade identified for these products
5. Safety:	Grade 1
6. Corrosion resistance:	Grade 4 = very high corrosion resistance** Grade 2 = moderate corrosion resistance
7. Security:	No grade identified for these products
8. Category of door:	Grade 1 = Sliding door
9. Initial friction maximum permitted value XL80: Initial friction maximum permitted value XL150:	Grade 2 = 60N Grade 1 = 100N NOTE: For products with a door mass from 101 kg to 330 kg
Environmental conditions and requirements regarding installation and operation	
Operable temperature range LSG:	max. 40°C (</= 3h impact time)
Operable temperature range TSG:	max. 70°C
Glass type:	TSG and LSG made of TSG (>/=0.76mm PVB foil, >/=5mm thickness)
Glass thickness:	8 - 13,5mm
Glass surface:	transparent, satin-finished, no self-cleaning surfaces in the area of the carriage (Lotus, Clearshield etc.)
Usage in moist rooms without appreciable pollution through chloride- and/or sulphur dioxide:	Suitable
Usage in pool areas etc. with pollution through chloride- and/or sulphur dioxide:	Not suitable

Effectiveness of damping and soft closing:

Door speed [m/s]		**Residual move in [mm]**	**Comment**
from	**to**		
0	0.2	110 to 70	Standard range
0.2	0.3	70 to 30	Limit range
0.3	0.4	30 to 0	Overload range

With a door speed of more than 0.4m/s the damping unit is not able to convert the energy completely (snap-through).
This can reduce the durability of the damping unit.

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