

DIN EN 15939:2019-11 (E)

Hardware for furniture - Strength and loading capacity of wal l attachment devices

Contents		Page
European foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	General test condition	6
4.1	Preliminary preparation	6
4.2	Test equipment	7
4.2.1	Test wall	7
4.2.2	Particle board properties	7
4.2.3	Fibreboard properties	7
4.2.4	Steel impact plate	7
4.2.5	Dowels	7
4.2.6	Nails	7
4.2.7	Levelling devices	7
4.2.8	Non-commercial wall part	8
4.3	Application of forces	8
4.4	Tolerances	8
4.5	Test sequence	8
5	Test setting	9
5.1	Test frame	9
5.2	Panels	11
5.3	Setting configurations	18
5.3.1	Setting A	18
5.3.2	Setting B	19
5.3.3	Setting C	20
6	Test procedures and requirements	20
6.1	General	20
6.2	Verification of loading capacity	21
6.2.1	General requirements	21
6.2.2	Static load test	21
6.2.3	Impact test	21
6.2.4	Door swing test	22
6.2.5	Verification of functionality	24
DIN EN 15939:2019-11 EN 15939:2019 (E) 6.2.6	Static load test of top surface	24
6.2.7	Overload test	24
6.3	Corrosion test	24
7	Test report	25
Annex A (normative)	Product information system	26
A.1	General	26
A.2	Loading capacity	26
A.3	Adjustment systems	26
A.4	Corrosion test	26

A.5	Mounting instructions	26
A.6	Dislodgement and detachment prevention	26
A.7	Static load test of top surface	26
Annex B (informative) Determination of loading capacity		27
B.1	Determination of breaking load	27
B.2	Calculation of loading capacity, M	28
Annex C (informative) Approximate calculation of vertical and horizontal forces		29
Bibliography		33