DIN EN 16121:2013-11 (E)

Non-domestic storage furniture - Requirements for safety, strength, durability and stability

Contents

Page

Foreword 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Test sequence and tolerances 7
4.1 Individual units 7
4.2 Range of units 7
4.3 Tolerances 7

5 Safety requirements 8
5.1 Principles of safety requirements 8
5.1.1 General 8
5.1.2 Determination of centre of gravity 8
5.1.3 Determination of total mass 8
5.2 General safety requirements 9
5.3 Sheer and squeeze points 9
5.3.1 Shear and squeeze points when setting up and folding 9
5.3.2 Shear and squeeze points under influence of powered mechanism 9
5.3.3 Shear and squeeze points during use 9
5.4 Hinged horizontal lids 9
5.5 Vertical glass components 10
5.6 Stability 10
5.7 Structural safety 11
5.7.1 Structural safety tests 11
5.7.2 Structural safety requirements 12

6 Strength and durability 13
6.1 General 13
6.2 Strength and durability requirements 14

7 Information for use 15

8 Test report 15

Annex A (normative) Modified requirements for schools, kindergartens and similar applications 16

A.1 General 16
A.2 Requirements 16
A.3 Additional requirements for furniture for kindergartens 17

Annex B (normative) Selecting product from a range of furniture 18

B.1 Range of units 18

Annex C (informative) Guidance of test severity in relation to application 19

Annex D (informative) Suggested loads for tests not specified in this standard 20

D.1 Suggested loads for tests not specified in this standard 20
D.1.1 General 20
D.1.2 Stability 20
D.1.2.1 General 20
D.1.2.2 Suggested stability requirements 20
D.1.3 Strength and durability 20
D.1.3.1 General 20
D.1.3.2 Suggested strength and durability requirements 21

Bibliography 22