DIN EN 508-2:2019-10 (E)

Roofing and cladding products from metal sheet - Specification for self-sup porting products of steel, aluminium or stainless steel sheet - Part 2: Aluminium

Contents

Page

European foreword ... 4

Introduction ... 5

1 Scope ... 6

2 Normative references ... 6

3 Terms and definitions, symbols and abbreviations ... 6

4 Requirements ... 13
4.1 General ... 13
4.2 Materials ... 13
4.2.1 Aluminium ... 13
4.2.2 Organic coatings ... 14
4.2.3 Anodizing ... 14
4.3 Products ... 15
4.3.1 Mechanical resistance ... 15
4.3.2 Calculation and tests of mechanical resistance ... 15
4.3.3 Dimensions ... 15
4.3.4 Dimensional tolerances for the profiled sheet ... 15
4.3.5 Safety in case of fire ... 16

5 Test methods ... 16
5.1 Material properties ... 16
5.2 Surface properties ... 16
5.3 Structural properties ... 16

6 Designation ... 17

7 Marking, labelling, packaging, special ordering conditions, transport, storage and handling ... 17
7.1 Marking and labelling ... 17
7.2 Packaging and special ordering conditions ... 17
7.3 Transport, storage and handling ... 17

Annex A (normative) Dimensional tolerances ... 19

A.1 Tolerances for trapezoidal sheets ... 19

A.1.1 General ... 19

A.1.2 Depth of profile ... 19

A.1.3 Depth of stiffeners ... 20

A.1.4 Pitch ... 20

A.1.5 Widths of crown and valley ... 21

A.1.6 Cover width ... 21

A.1.7 Radius of bends ... 22

A.1.8 Deviation from straightness ... 23

A.1.9 Deviation from squareness ... 24

A.1.10 Length **25**
A.1.11 Deviation of side lap **26**
A.1.12 Curve radius and angles **26**
A.2 Tolerances for sinusoidal profiles **27**
A.3 Tolerances on tiles **27**
A.3.1 General **27**
A.3.2 Depth of tile **28**
A.3.3 Web angular displacement (Figure A.12) **28**
A.3.4 Pitch **28**
A.3.5 Width of crown and valley (Figure A.14) **29**
A.3.6 Cover width **29**
A.3.7 Radius of bends **30**
A.3.8 Deviation from straightness **31**
A.3.9 Deviation from squareness **31**
A.3.10 Length **32**
A.3.11 Contraction or bulging **32**
A.4 Methods for measuring profiles **32**
A.4.1 General **32**
A.4.2 Depth of profile **33**
A.4.3 Depth of stiffeners **33**
A.4.4 Pitch **33**
A.4.5 Width of crown and valley **34**
A.4.6 Cover width **35**
A.4.7 Radius of bends **35**
A.4.8 Straightness **35**
A.4.9 Squareness **35**
A.4.10 Length **35**
A.4.11 Side laps **35**
A.4.12 Side lap ripple **36**
Annex B (informative) **Test methods for concentrated load** **38**
Bibliography **39**