

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

Roofing and cladding products from metal sheet - Specification for self-supporting 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