



AR12 W 5,5xL

ROOFING SCREWS

PRODUCT CHARACTERISTICS

Self-tapping drilling screws, made of hardened carbon steel or stainless steel (bimetallic screws), with hexagon head and with mounted steel or aluminium washer with EPDM attached (or without washer)

HEXAGONAL HEAD SIZE	8 mm
MATERIAL OF SUPPORTING STRUCTURE	steel
MIN. THICKNESS OF SUPPORTING STRUCTURE (T min)	4,0 mm
DRILLING CAPACITY (DC)	12,0 mm
POSSIBILITY OF PAINTING	YES
PAINT COATING THICKNESS	approx. 50 µm
RECOMMENDED SCREWDRIVER SPEED	1500 rev/min (about 1200 rev/min- SS screws)
RECOMMENDED TIGHTENING TORQUE	5 Nm

SCREW SIZE AND OTHER UTILITY DATA

AVAILABLE SIZES dxL [mm]	MTmax (with washer) [mm]	MTmax (without washer) [mm]	MATERIAL	TYPE OF ANTICORROSION COATING	USED WASHERS
5,5x32	9	12	carbon steel	*CS	without washer, 14ZN, 14AL
5,5x35	12	15		*CSG	
5,5x50	27	30		*CSE	
5,5x70	47	50			
5,5x38	14	17	stainless steel (SS) (bimetallic)	-	without washer, 14AL, 16AL, 14SS, 16SS

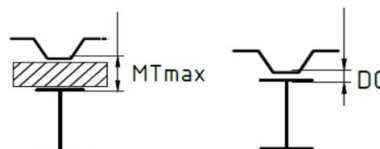
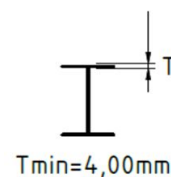
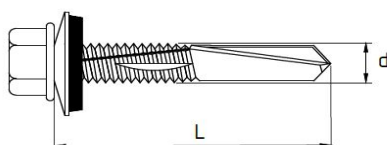
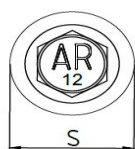
CS - carbon steel coated with zinc coating with a minimum thickness of 12 microns (optionally 24 microns)

CSG - carbon steel coated with zinc coating with a minimum thickness of 5 microns with additional Eco-GrePert ceramic coating **(CORROSION RESISTANCE UP TO C4 CATEGORY)**

CSE - carbon steel with EsC coating **(CORROSION RESISTANCE UP TO C4 CATEGORY)**

ZN - galvanized carbon steel, AL - aluminium, SS -stainless steel

MTmax- maximum thickness of the fixed elements including thickness of supporting structure



SELECTED CHARACTERISTIC RESISTANCES PER SHEAR *

a) without washer

Characteristic resistance [kN]				
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]			
	4,00	6,00	8,00	10,00
0,50	1,32	1,32	1,32	1,32
0,63	1,45	1,45	1,45	1,45
0,75	1,88	1,88	1,88	1,88
0,88	2,28	2,28	2,28	2,28
1,00	2,74	2,74	2,74	2,74

b) with $\geq 14\text{ZN/AL}$ washer

Characteristic resistance [kN]				
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]			
	4,00	6,00	8,00	10,00
0,50	1,18	1,18	1,18	1,18
0,63	1,26	1,26	1,26	1,26
0,75	1,26	1,26	1,26	1,26
0,88	1,48	1,48	1,48	1,48
1,00	1,80	1,80	1,80	1,80

c) SS screws with $\geq 16\text{SS}$ washer

Characteristic resistance [kN]				
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]			
	4,00	6,00	8,00	10,00
0,50	1,32	1,32	1,32	1,32
0,63	1,45	1,45	1,45	1,45
0,75	1,88	1,88	1,88	1,88
0,88	2,28	2,28	2,28	2,28
1,00	2,74	2,74	2,74	2,74

SELECTED CHARACTERISTIC RESISTANCES PER PULL-OUT *

a) without washer

Characteristic resistance [kN]				
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]			
	4,00	6,00	8,00	10,00
0,50	0,61	0,61	0,61	0,61
0,63	0,89	0,89	0,89	0,89
0,75	0,99	0,99	0,99	0,99
0,88	0,99	0,99	0,99	0,99
1,00	1,12	1,12	1,12	1,12

b) with $\geq 14\text{ZN/AL}$ wash

Characteristic resistance [kN]				
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]			
	4,00	6,00	8,00	10,00
0,50	2,53	2,53	2,53	2,53
0,63	3,56	3,56	3,56	3,56
0,75	4,09	4,09	4,09	4,09
0,88	4,10	4,10	4,10	4,10
1,00	4,66	4,66	4,66	4,66

c) SS screws with $\geq 16\text{SS}$ washer

Characteristic resistance [kN]				
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]			
	4,00	6,00	8,00	10,00
0,50	3,23	3,23	3,23	3,23
0,63	3,64	3,64	3,64	3,64
0,75	4,70	4,70	4,70	4,70
0,88	5,35	5,35	5,35	5,35
1,00	6,48	6,48	6,48	6,48

* This product data sheet shows only examples of fastenings resistances. Full information about resistances for introduced screws are described in the **ETA-18/0789** technical approval

PURPOSE AND SCOPE OF USE

Screws for fixing steel sheets to hot-rolled steel structures



This product data sheet is for information purposes only and does not constitute an offer within the meaning of Article 66 of the Civil Code par.1

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