



AR3 W 4,8xL

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)	1,0 mm
DRILLING CAPACITY (DC)	3,0 mm
POSSIBILITY OF PAINTING	YES
PAINT COATING THICKNESS	approx. 50 µm
RECOMMENDED SCREWDRIVER SPEED	1800 rev/min (1300 rev/min- SS screws)
RECOMMENDED TIGHTENING TORQUE	3 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
4,8x16	2	5	carbon steel	*CS *CSG *CSE	without washer, 14ZN, 14AL
4,8x19	5	8			
4,8x22	8	11			
4,8x25	11	14			
4,8x32	18	21			
4,8x35	21	24			
4,8x45	31	34			
4,8x55	41	44			
4,8x25	11	14	stainless steel (SS) (bimetallic)	-	without washer, 14AL, 14SS

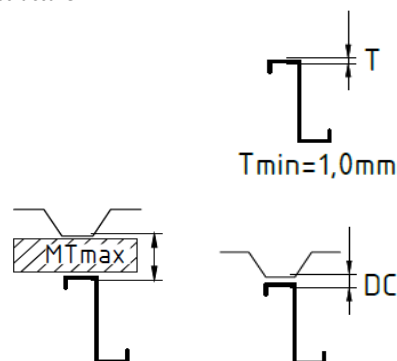
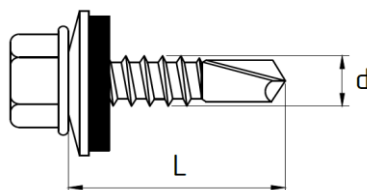
CS - carbon steel coated with zinc coating with a minimum thickness of 12 microns (optionally 24 microns)

CSG - carbon steel coated with zinc coating with 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]			
	1,00	1,25	1,50	2,00
0,50	1,05	1,05	1,05	1,05
0,63	1,35	1,35	1,35	1,35
0,75	2,06	2,06	2,06	2,06
0,88	2,22	2,22	2,22	2,22
1,00	2,53	2,53	2,53	2,53

b) with 14ZN washer

Characteristic resistance [kN]				
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]			
	1,00	1,25	1,50	2,00
0,50	1,05	1,05	1,05	1,05
0,63	1,35	1,35	1,35	1,35
0,75	2,06	2,06	2,06	2,06
0,88	2,22	2,22	2,22	2,22
1,00	2,53	2,53	2,53	2,53

c) SS screws with 14SS washer

Characteristic resistance [kN]				
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]			
	1,00	1,25	1,50	2,00
0,50	1,05	1,05	1,05	1,05
0,63	1,34	1,34	1,34	1,34
0,75	2,04	2,04	2,04	2,04
0,88	2,20	2,20	2,20	2,20
1,00	2,51	2,51	2,51	2,51

SELECTED CHARACTERISTIC RESISTANCES PER PULL-OUT *

a) without washer

Characteristic resistance [kN]				
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]			
	1,00	1,25	1,50	2,00
0,50	0,51	0,51	0,51	0,51
0,63	0,75	0,75	0,75	0,75
0,75	0,83	0,83	0,83	0,83
0,88	0,78	0,78	0,78	0,78
1,00	0,94	0,94	0,94	0,94

b) with 14ZN washer

Characteristic resistance [kN]				
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]			
	1,00	1,25	1,50	2,00
0,50	0,96	1,40	1,76	2,56
0,63	0,96	1,40	1,76	2,70
0,75	0,96	1,40	1,76	2,70
0,88	0,96	1,40	1,76	2,70
1,00	0,96	1,40	1,76	2,70

c) SS screws with 14SS washer

Characteristic resistance [kN]				
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]			
	1,00	1,25	1,50	2,00
0,50	1,00	1,23	1,65	2,44
0,63	1,00	1,23	1,65	2,44
0,75	1,00	1,23	1,65	2,44
0,88	1,00	1,23	1,65	2,44
1,00	1,00	1,23	1,65	2,44

** 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 approvals*

PURPOSE AND SCOPE OF USE

Screws for fixing steel sheets to thin-walled steel structures, and for joining together steel sheets

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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