



# AR5 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)	1,5 mm
DRILLING CAPACITY (DC)	5,0 mm
POSSIBILITY OF PAINTING	YES
PAINT COATING THICKNESS	approx. 50 µm
RECOMMENDED SCREWDRIVER SPEED	1500 rev/min (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
5,5x19	3	6	carbon steel	*CS *CSG *CSE	without washer, 14ZN, 16ZN, 14AL, 16AL, 14SS, 16SS
5,5x25	9	12			
5,5x32	16	19			
5,5x38	22	25			
5,5x50	34	37			
5,5x60	44	47			
5,5x70	54	57			
5,5x25	9	12	stainless steel (SS) (bimetallic)	-	without washer, 14AL, 16AL, 14SS, 16SS
5,5x32	16	19			
5,5x38	22	25			
5,5x50	34	37			

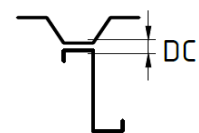
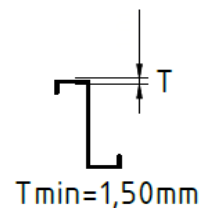
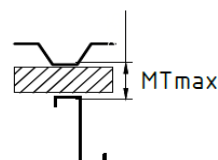
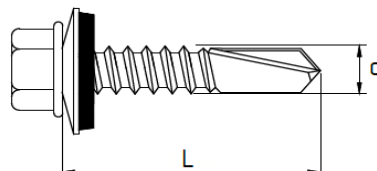
CS - carbon steel coated with zinc coating with a minimum thickness of 12 microns (optionally 24 microns)

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]				
	1,50	2,00	3,00	4,00	
0,50	1,23	1,23	1,23	1,23	
1,00	2,36	2,30	2,30	2,30	
1,50	3,30	3,30	3,30	-	
2,00	3,30	3,30	3,30	-	

**b) with 14ZN washer**

Characteristic resistance [kN]					
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]				
	1,50	2,00	3,00	4,00	
0,50	0,92	0,92	0,92	0,92	
1,00	1,68	1,68	1,68	1,68	
1,50	2,88	2,88	2,88	-	
2,00	-	3,65	-	-	

**c) SS screws with 16SS washer**

Characteristic resistance [kN]					
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]				
	1,50	2,00	3,00	4,00	
0,50	1,23	1,23	1,23	1,23	
1,00	2,30	2,30	2,30	2,30	
1,50	3,30	3,30	3,30	-	
2,00	3,30	3,30	3,30	-	

**SELECTED CHARACTERISTIC RESISTANCES PER PULL-OUT \***

**a) without washer**

Characteristic resistance [kN]					
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]				
	1,50	2,00	3,00	4,00	
0,50	0,61	0,61	0,61	0,61	
1,00	1,12	1,12	1,12	1,12	
1,50	1,12	1,12	1,12	-	
2,00	1,12	-	-	-	

**b) with 14ZN washer**

Characteristic resistance [kN]					
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]				
	1,50	2,00	3,00	4,00	
0,50	1,49	2,33	2,53	2,53	
1,00	1,49	2,33	4,66	4,66	
1,50	1,49	2,33	4,66	-	
2,00	-	-	-	-	

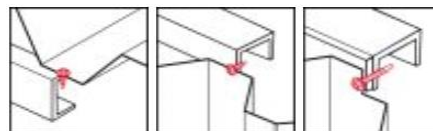
**c) SS screws with 16SS washer**

Characteristic resistance [kN]					
Thickness of the fixed metal sheet [mm]	Thickness of supporting structure [mm]				
	1,50	2,00	3,00	4,00	
0,50	1,68	2,48	3,23	3,23	
1,00	1,68	2,48	5,07	5,07	
1,50	1,68	2,48	5,07	-	
2,00	1,68	2,48	5,07	-	

*\* This product data sheet shows only examples of fastenings resistances. Full information about resistances for introduced screws are described in the **AT-15-8656/2014** and **ETA-13/0085** technical approvals*

**PURPOSE AND SCOPE OF USE**

Screws for fixing steel sheets to cold-formed 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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**AT-15-8656/2014**  
**ETA-13/0085**



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