STAINLESS SELF TAPPING FACADE SCREW, AB

SCREW FOR FASTENING OF CLADDING TO STEEL

- Good corrosion resistance (stainless steel A2)
- Tall head for easy and stable mounting
- Available with washer with bonded EPDM for better load distribution and sealing abilities
- Available in more than 500 colours (QUALICOAT certified powder)

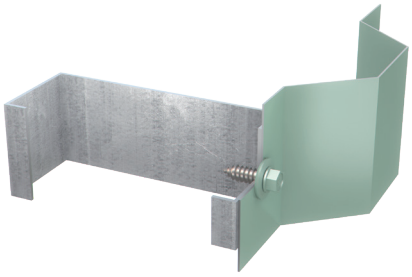
Hex head | Corrosion category C4 | Stainless steel A2

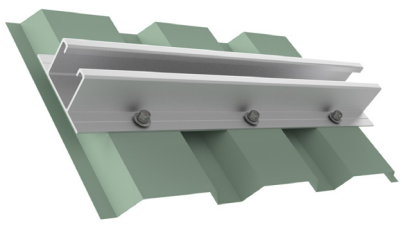
PRODUCT RANGE

MG/PG	Item no.	Item name	Washer [mm]	Thread [mm]	Length L [mm]	Steel thickness [mm]	Head [mm]	Unit [pcs]
06 8010	13059	HWH AB RX 6.3 X 19 "RX" HX8	-	Ø6.3	19	0.9 - 5.0	Ø10.0 HEX 8.0	250
	13060	HWH AB RX 6.3 X 19 "RX" HX8 RX-16B	A2 Ø16					
	13061	HWH AB RX 6.3 X 25 "RX" HX8	-		25			
	13062	HWH AB RX 6.3 X 25 "RX" HX8 RX-16B	A2 Ø16					
	18970	HWH AB RX 6.3 X 38 "RX" HX8	-		38			
	18969	HWH AB RX 6.3 X 38 "RX" HX8 RX-16B	A2 Ø16					
	18972	HWH AB RX 6.3 X 51 "RX" HX8	-		51			100
	18971	HWH AB RX 6.3 X 51 "RX" HX8 RX-16B	A2 Ø16					

TYPICAL APPLICATION

- Fastening of cladding to steel
- Fastening of solar mounting systems to thin gauge sheeting
- Fastening of brackets for installation of solar panels





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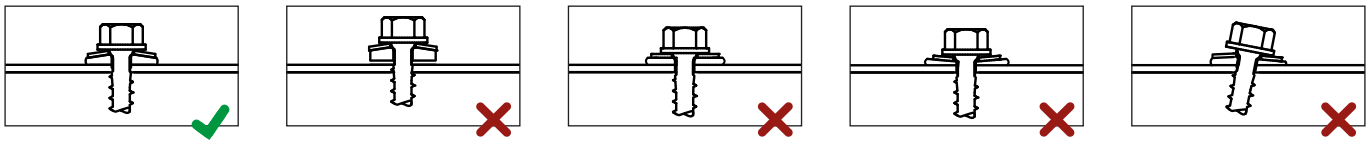
INSTALLATION INSTRUCTIONS

For optimal performance it is important to follow the installation instructions. An incorrect installation may lead to decreased sealing abilities and/or load bearing capacity.

See the table below for predrilling in different steel thicknesses.

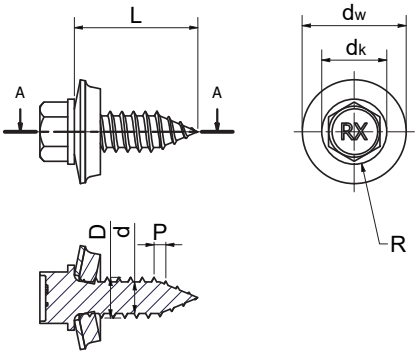


Correct | Not tightened enough | Overtightened | Very overtightened | Tilted angle

Steel thickness [mm]	Drill diameter [mm]
2.0 - 4.0	Ø5.3
4.0 - 5.0	Ø5.5

TECHNICAL DATA

Outer diameter, D	[mm]	Ø6.3
Inner diameter, d	[mm]	Ø4.8
Head diameter, d_k	[mm]	Ø10.0
Washer diameter, d_w	[mm]	Ø16.0
Drill point diameter, d_p	[mm]	-
Drill point length, l_p	[mm]	-
Pitch, P	[mm]	1.8
Drive type, R	[-]	HEX 8.0



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DESIGN RESISTANCE

The design resistance of the screw is determined in accordance with EN 1993-1-3:2006 + AC:2009, Eurocode 3 for steel structures.

The resistance when loaded in tension, N_{Rd}, appears from the table on the right and is the minimum value of the pull-out resistance of the supporting object, the pull-through resistance of the fixed object, and the tension resistance of the screw.

The resistance when loaded in shear, V_{Rd}, appears from the table on the right and is the minimum value of the bearing resistance of the supporting object and the fixed object, and the shear resistance of the screw.

The theoretical values must be considered indicative since the conditions at the construction site may vary. Practical tests of the specific application are recommended for verification of the listed values.

Assumptions:

Fixed object: Steel S280GD - EN 10346

Supporting object: Steel S280GD - EN 10346

t_I = Thickness of the fixed object [mm]
t_{II} = Thickness of the supporting object [mm]

All resistances are stated in kN (1 kN ≈ 100 kg)
Safety factor: γ_M = 1.35

MG/PG: 06 8010 HWH AB RX 6.3 X L "RX" HX8 RX-16B

Design resistance when loaded in tension, N_{Rd} [kN]

t_I \ t_{II}	0.90	1.00	1.25	1.50	2.00	2.50	3.00	3.50	4.00	5.00
0.50	0.66	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
0.63	0.66	0.74	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
0.75	0.66	0.74	0.92	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.88	0.66	0.74	0.92	1.11	1.17	1.17	1.17	1.17	1.17	1.17
1.00	0.66	0.74	0.92	1.11	1.33	1.33	1.33	1.33	1.33	1.33
1.13	0.66	0.74	0.92	1.11	1.51	1.51	1.51	1.51	1.51	1.51
1.25	0.66	0.74	0.92	1.11	1.67	1.67	1.67	1.67	1.67	1.67
1.50	0.66	0.74	0.92	1.11	2.00	2.00	2.00	2.00	2.00	2.00

Design resistance when loaded in shear, V_{Rd} [kN]

t_I \ t_{II}	0.90	1.00	1.25	1.50	2.00	2.50	3.00	3.50	4.00	5.00
0.50	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
0.63	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
0.75	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
0.88	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
1.00	1.81	2.11	2.34	2.56	3.00	3.44	3.44	3.44	3.44	3.44
1.13	1.81	2.11	2.64	2.83	3.23	3.63	3.89	3.89	3.89	3.89
1.25	1.81	2.11	2.96	3.13	3.49	3.85	4.21	4.30	4.30	4.30
1.50	1.81	2.11	2.96	3.88	4.17	4.45	4.73	5.02	5.16	5.16

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