

STAINLESS SELF TAPPING FACADE SCREW, A

SCREW FOR FASTENING OF CLADDING TO WOOD OR STEEL



- Good corrosion resistance (stainless steel A2)
- Tall head for easy and stable mounting
- Supplied 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



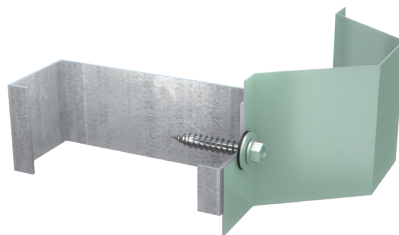
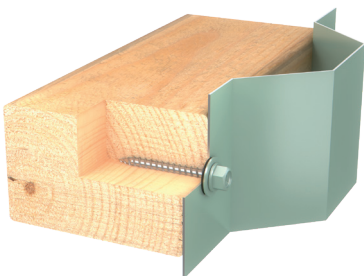
Stainless steel A2

PRODUCT RANGE

MG/PG	Item no.	Item name	Washer [mm]	Thread [mm]	Length L [mm]	Steel thickness [mm]	Head [mm]	Unit [pcs]
06 4230	10772	HWH A RX 6.5 X 19 "RX" HX8 RX-16B	A2 Ø16	Ø6.5	19	Max 3.0	Ø10.0 HEX 8.0	250
	10778	HWH A RX 6.5 X 25 "RX" HX8 RX-16B			25			
	10779	HWH A RX 6.5 X 32 "RX" HX8 RX-16B			32			
	10780	HWH A RX 6.5 X 38 "RX" HX8 RX-16B			38			
	10781	HWH A RX 6.5 X 45 "RX" HX8 RX-16B			45			
	10782	HWH A RX 6.5 X 50 "RX" HX8 RX-16B			50			100
	10783	HWH A RX 6.5 X 55 "RX" HX8 RX-16B			55			
	15486	HWH A RX 6.5 X 60 "RX" HX8 RX-16B			60			
	10784	HWH A RX 6.5 X 65 "RX" HX8 RX-16B			65			
	15487	HWH A RX 6.5 X 70 "RX" HX8 RX-16B			70			
	15686	HWH A RX 6.5 X 75 "RX" HX8 RX-16B			75			

TYPICAL APPLICATION

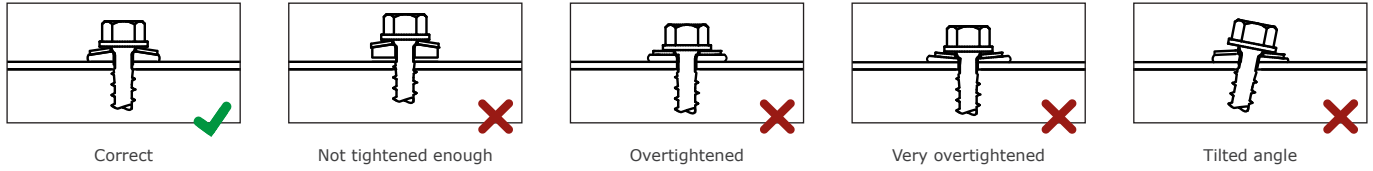
- Fastening of cladding to wood
- Fastening of cladding to steel



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.

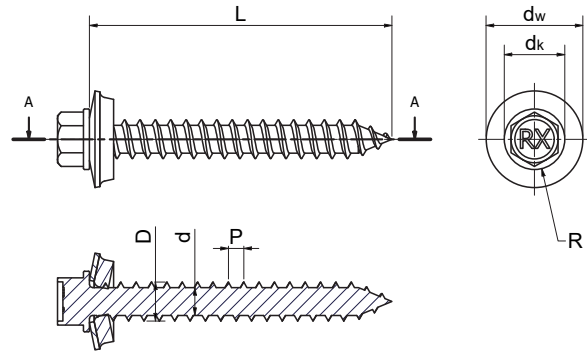
See the chart below for predrilling in different steel thicknesses.



Steel thickness [mm]	Drill diameter [mm]
< 0.63	Ø4.0
0.63 - 2.0	Ø4.2
2.0 - 3.0	Ø5.0

TECHNICAL DATA

Outer diameter, D	[mm]	Ø6.5
Inner diameter, d	[mm]	Ø4.6
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]	2.5
Drive type, R	[-]	HEX 8.0



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 and EN 1995-1-1:2004 + AC:2006 + A1:2008 + A2:2014, Eurocode 5 for timber 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: Structural wood, C24
Density, $\rho_k = 350 \text{ kg/m}^3$

L = Length of the screw [mm]

t = Thickness of the fixed object [mm]

All resistances are stated in kN (1 kN \approx 100 kg)

Safety factor: $\gamma_M = 1.35$, $k_{mod} = 0.90$

MG/PG: 06 4230 HWH A RX 6.5 X L RX HX8 RX-16B

Design resistance when loaded in tension, N_{Rd} [kN]									
t \ L	19-38	38	45	50	55	60	65	70	75
0.50	-	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
0.63	-	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
0.75	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
0.88	-	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
1.00	-	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
1.25	-	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.67
1.50	-	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Design resistance when loaded in shear, V_{Rd} [kN]									
t \ L	19-38	38	45	50	55	60	65	70	75
0.50	-	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
0.63	-	0.89	1.06	1.08	1.08	1.08	1.08	1.08	1.08
0.75	-	0.89	1.05	1.17	1.29	1.36	1.36	1.36	1.36
0.88	-	0.88	1.05	1.17	1.29	1.40	1.40	1.40	1.40
1.00	-	0.88	1.05	1.17	1.29	1.40	1.43	1.43	1.43
1.25	-	0.88	1.04	1.16	1.28	1.40	1.51	1.51	1.51
1.50	-	0.87	1.04	1.15	1.27	1.39	1.51	1.58	1.58

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 \approx 100 kg)

Safety factor: $\gamma_M = 1.35$

MG/PG: 06 4230 HWH A RX 6.5 X L RX HX8 RX-16B

Design resistance when loaded in tension, N_{Rd} [kN]									
t _I \ t _{II}	0.50	0.63	0.75	0.88	1.00	1.25	1.50	2.00	2.50
0.50	0.38	0.48	0.57	0.67	0.67	0.67	0.67	0.67	0.67
0.63	0.38	0.48	0.57	0.67	0.76	0.84	0.84	0.84	0.84
0.75	0.38	0.48	0.57	0.67	0.76	0.96	1.00	1.00	1.00
0.88	0.38	0.48	0.57	0.67	0.76	0.96	1.15	1.17	1.17
1.00	0.38	0.48	0.57	0.67	0.76	0.96	1.15	1.33	1.33
1.25	0.38	0.48	0.57	0.67	0.76	0.96	1.15	1.53	1.67
1.50	0.38	0.48	0.57	0.67	0.76	0.96	1.15	1.53	1.91

Design resistance when loaded in shear, V_{Rd} [kN]									
t _I \ t _{II}	0.50	0.63	0.75	0.88	1.00	1.25	1.50	2.00	2.50
0.50	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
0.63	0.76	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
0.75	0.76	1.08	1.40	1.40	1.40	1.40	1.40	1.40	1.40
0.88	0.76	1.08	1.40	1.78	1.78	1.78	1.78	1.78	1.78
1.00	0.76	1.08	1.40	1.78	2.15	2.39	2.63	3.10	3.57
1.25	0.76	1.08	1.40	1.78	2.15	3.01	3.20	3.59	3.98
1.50	0.76	1.08	1.40	1.78	2.15	3.01	3.96	4.27	4.58