

BI-METAL FACADE SCREW

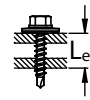
SELF DRILLING SCREW FOR FASTENING OF CLADDING TO WOOD



- Good corrosion resistance (stainless steel A2)
- #1 drill point for increased pull-out values
- 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)



European Technical Assessment ETA-10/0021



Effective length



Hex head



Corrosion category C4



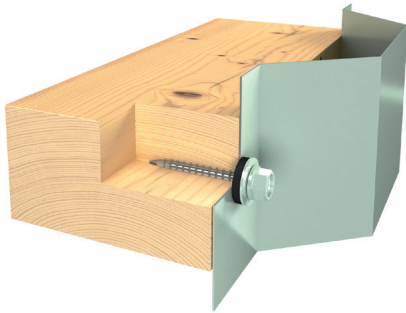
Bi-metal stainless A2

PRODUCT RANGE

MG/PG	Item no.	Item name	Washer [mm]	Thread [mm]	Length L [mm]	Effective length L _{ef} [mm]	Drill capacity [mm]	Head [mm]	Unit [pcs]
06 2510	10436	HWH RXB 4.8 X 35 #1 "RXB" HX8 RX-14B	A2 Ø14	Ø4.8	35	18.0	2 x 0.5 - 2 x 1.0	Ø10.0 HEX 8.0	250
	10439	HWH RXB 4.8 X 60 #1 "RXB" HX8 RX-14B			60	43.0			100
	18686	HWH RXB 4.8 X 80 #1 "RXB" HX8 RX-14B			80	63.0			

TYPICAL APPLICATION

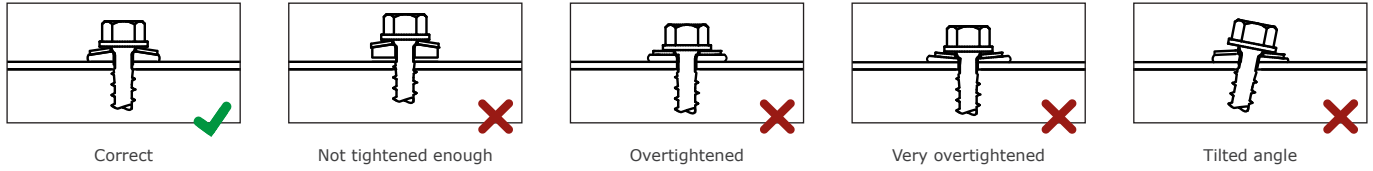
- Fastening of cladding to wood



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.

For optimal drill performance, it is recommended that the rotational speed is 1800 - 2500 RPM.

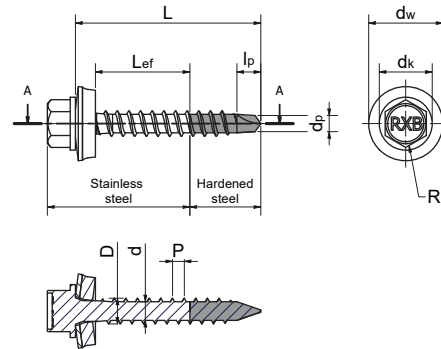


GOOD TO KNOW

Bi-metal screws consist of a stainless steel body and a hardened carbon steel point. This combines the excellent corrosion resistance from the stainless steel and the superior drilling and tapping capabilities of the carbon steel. However, it is important to be aware that the carbon tip has a lower corrosion resistance than the stainless steel body. Consequently, it is important to choose the correct effective length and to consider if a possible corroding carbon tip can have any undesired cosmetic effects.

TECHNICAL DATA

Outer diameter, D	[mm]	Ø4.8
Inner diameter, d	[mm]	Ø3.6
Head diameter, d_k	[mm]	Ø10.0
Washer diameter, d_w	[mm]	Ø14.0
Drill point diameter, d_p	[mm]	Ø2.9
Drill point length, l_p	[mm]	4.5
Pitch, P	[mm]	2.2
Drive type, R	[-]	HEX 8.0



DESIGN RESISTANCE

The design resistance of the screw is determined in accordance with european technical assessment ETA-10/0021 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: Cladding

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 2510 HWH RXB 4.8 X L #1 RXB HX8 RX-14B

Design resistance when loaded in tension, N_{Rd} [kN]			
t \ L	35	60	80
0.50	0.85	1.01	1.01
0.55	0.85	1.07	1.07
0.63	0.85	1.17	1.17
0.75	0.85	1.75	1.75
0.88	0.85	1.92	1.99
1.00	0.85	1.92	2.23
1.13	0.85	1.91	2.76
1.25	0.84	1.91	2.76

Design resistance when loaded in shear, V_{Rd} [kN]			
t \ L	35	60	80
0.50	0.39	0.79	0.79
0.55	0.39	0.83	0.83
0.63	0.39	0.89	0.92
0.75	0.39	0.89	1.05
0.88	0.39	0.89	1.11
1.00	0.39	0.89	1.16
1.13	0.39	0.88	1.19
1.25	0.39	0.88	1.19

DECLARATION OF PERFORMANCE

In compliance with 'REGULATION (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products' (the Construction Products Regulation or CPR), it is stated that the performance of the construction product identified below is in conformity with the declared performance.

Product identification

MG:06 PG:2510 | HWH RXB 4.8 X L #1 "RXB" HX8 RX-14B

(Main Group # Product Group # | Item name)

The screws mentioned above are packed in branded cartons clearly marked with CE according to ETA-10/0021. For specification of the intended use and declared performance of the product please refer to the technical data sheet.

Placed on the market by:

ASTON SWEDEN AB

Hangarvägen 23

SE-691 35 Karlskoga, Sweden

(Name / address)

European Assessment Document: EAD 330046-01-0602

European Technical Assessment: ETA-10/0021

Technical Assessment Body: Deutsches Institut für Bautechnik

Notified Body no.: 0769

System of AVCP: 2+

This declaration of performance is issued under the sole responsibility of the manufacturer identified above.

Morten Johansen

Morten Johansen
M.Sc., Engineering

ASTON

SWEDEN

Company stamp
RED HORSE | dissing as

2018-04-23

Date of issue