

STAINLESS SELF TAPPING FACADE SCREW, A

SCREW FOR FASTENING OF CLADDING TO WOOD



- 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)



Harmonised standard
EN 14592:2008+A1:2012



Hex head



Corrosion
category C4



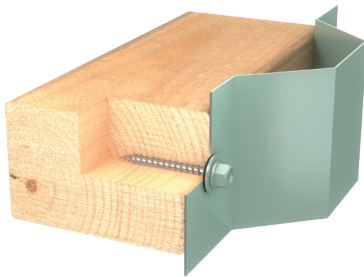
Stainless
steel A2

PRODUCT RANGE

MG/PG	Item no.	Item name	Washer [mm]	Thread [mm]	Length L [mm]	Drill capacity [mm]	Head [mm]	Unit [pcs]
06 7120	11815	HWH A RX 4.8 X 25 "RX" HX8 RX-14B	A2 Ø14	Ø4.8	25	Max. 0.7	Ø10.0 HEX 8.0	250
	13037	HWH A RX 4.8 X 32 "RX" HX8 RX-14B			32			
	12093	HWH A RX 4.8 X 38 "RX" HX8 RX-14B			38			
	13039	HWH A RX 4.8 X 50 "RX" HX8 RX-14B			50			

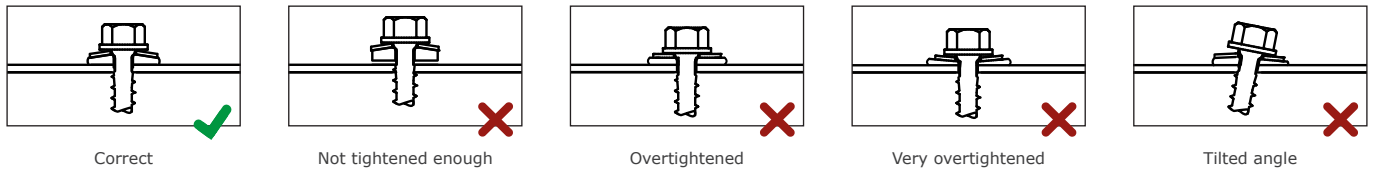
TYPICAL APPLICATION

- Fastening of cladding to wood



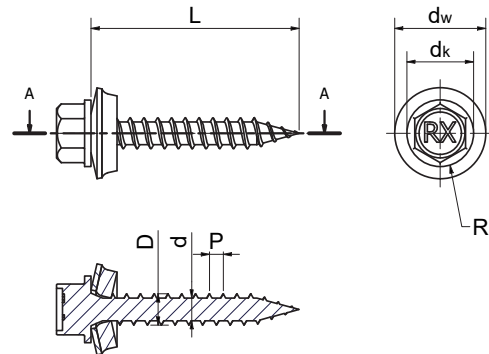
INSTALLATION INSTRUCTIONS

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.



TECHNICAL DATA

Outer diameter, D	[mm]	Ø4.8
Inner diameter, d	[mm]	Ø3.5
Head diameter, d_k	[mm]	Ø10.3
Washer diameter, d_w	[mm]	Ø14.0
Drill point diameter, d_p	[mm]	-
Drill point length, l_p	[mm]	-
Pitch, P	[mm]	2.1
Drive type, R	[-]	HEX 8.0



DESIGN RESISTANCE

The design resistance of the screw is determined in accordance with initial type test (ITT) 901 9975 000/13 and EN 1995-1-1:2004 + AC:2006 + A1:2008, Eurocode 5 for timber structures and 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: 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 7120 HWH A RX 4.8 X L "RX" HX8 RX-14B

Design resistance when loaded in tension, N_{Rd} [kN]				
t/t_{II}	25	32	38	50
0.50	0.66	0.68	0.68	0.68
0.55	0.66	0.75	0.75	0.75
0.63	0.66	0.86	0.86	0.86
0.75	0.65	0.95	1.02	1.02
0.88	0.65	0.95	1.20	1.20
1.00	0.64	0.94	1.20	1.37
1.13	0.64	0.94	1.20	1.54
1.25	0.63	0.93	1.19	1.70

Design resistance when loaded in shear, V_{Rd} [kN]				
t/t_{II}	25	32	38	50
0.50	0.30	0.44	0.56	0.66
0.55	0.30	0.44	0.56	0.76
0.63	0.30	0.44	0.56	0.79
0.75	0.30	0.44	0.56	0.79
0.88	0.30	0.43	0.55	0.79
1.00	0.29	0.43	0.55	0.79
1.13	0.29	0.43	0.55	0.78
1.25	0.29	0.43	0.55	0.78

CE-MARKING

CE approval is carried out in accordance with the harmonized standard for dowel-type fasteners – Timber structures: EN 14592:2008+A1:2012.

The initial type test (ITT) is performed by a certified third-party institute, also documented factory product control (FPC), as required in the European standard above.

Mechanical strength and stiffness (characteristic)			
Yield moment	$M_{y,k}$	[Nm]	6.8
Withdrawal parameter	$f_{ax,k}$	[N/mm ²]	13.4
Head pull-through parameter	$f_{head,k}$	[N/mm ²]	NPD
Tensile capacity	$f_{tens,k}$	[kN]	8.2
Torsional ratio	$f_{tor,k} / R_{tor,k} \geq 1.5$		

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:7120 | HWH A RX 4.8 X L "RX" HX8 ALU-14B

(Main Group # Product Group # | Item name)

The screws mentioned above are packed in branded cartons clearly marked with CE according to 14592:2008+A1:2012. 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)

Harmonised standard: EN 14592:2008+A1:2012

ITT report: 901 9975 000/13

Notified Body no.: 0769

System of AVCP: 3

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



Morten Johansen
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ASTON

SWEDEN

Company stamp
RED HORSE | dissing as

01-06-2013

Date of issue