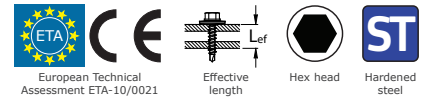
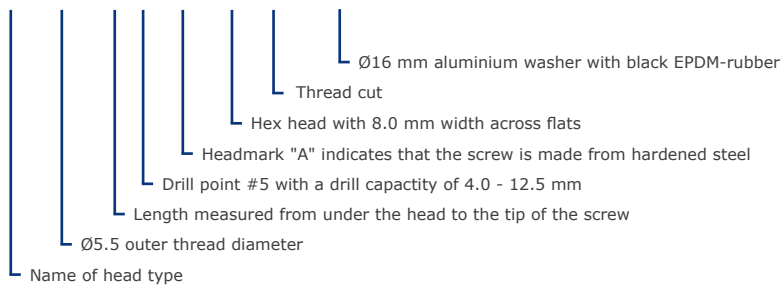


## SELF DRILLING SCREW

HWH 5.5 X L #5 "A" HX8 TC ALU-16B

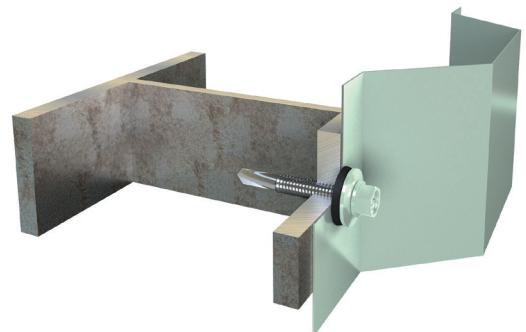


### PRODUCT RANGE

Art.no.	Item name	Washer [mm]	Thread [mm]	Length L [mm]	Effective length $L_{ef}$ [mm]	Drill point	Drill cap. [mm]	Head [mm]	Unit
12877	HWH 5.5 X 32 #5 "A" HX8 TC ALU-16B	ALU $\varnothing 16$	$\varnothing 5.5$	32	9.0	#5	4.0 - 12.5	HEX 8.0	250
12092	HWH 5.5 X 38 #5 "A" HX8 TC ALU-16B			38	15.0				
12878	HWH 5.5 X 51 #5 "A" HX8 TC ALU-16B			51	28.0				100
12879	HWH 5.5 X 76 #5 "A" HX8 TC ALU-16B			76	53.0				
12880	HWH 5.5 X 102 #5 "A" HX8 TC ALU-16B			102	79.0				

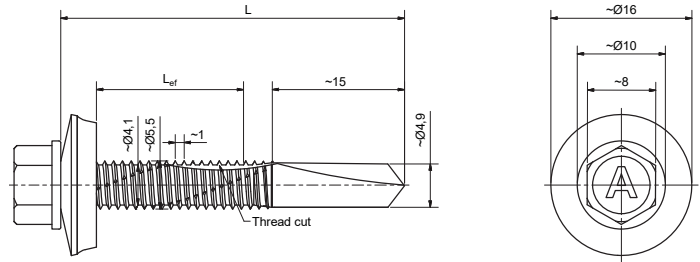
### ADVANTAGES

- Drilling, tapping and fastening in one operation
- Drill point designed for fast drilling in harder steel
- Tall head for easy and stable mounting
- Available with washer for better load distribution and increased sealing abilities
- Surface treated with ZYTEC™ M for optimal corrosion protection
- Surface treatment for use in corrosion category C3 certified by SP
- Available in more than 500 colours (Qualicoat certified facade quality powder)
- CE marked according to european standards



## PRODUCT DATA

Technical data	
Head:	Hex head with 8.0 mm width across flats
Washer:	Ø16 mm aluminium washer with black EPDM-rubber
Diameter:	Ø5.5 mm
Effective length:	$L_{ef} = L - 23.0$ mm
Drill point:	#5
Drill capacity:	4.0 - 12.5 mm (Stål GD280)
Material:	Hardened steel
Surface treatment:	ZYTEC™ M
Corrosivity category:	C3 (High) according to EN ISO 12944-2



## DESIGN RESISTANCE

The design resistance of the screw is determined in accordance with european technical approval ETA-10/0021.

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 of 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)

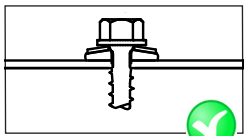
Safety factor:  $\gamma_M = 1.35$

Design resistance when loaded in tension, $N_{Rd}$ [kN]						
$t_I$ \ $t_{II}$	4.00	5.00	6.00	8.00	10.00	12.00
0.50	1.31	1.31	1.31	1.31	1.31	1.31
0.55	1.45	1.45	1.45	1.45	1.45	-
0.63	1.74	1.74	1.74	1.74	1.74	-
0.75	2.02	2.02	2.02	2.02	2.02	-
0.88	2.12	2.12	2.12	2.12	2.12	-
1.00	2.21	2.21	2.21	2.21	2.21	-
1.25	2.82	2.82	2.82	2.82	2.82	-
1.50	3.61	3.61	3.61	3.61	3.61	-

Design resistance when loaded in shear, $V_{Rd}$ [kN]						
$t_I$ \ $t_{II}$	4.00	5.00	6.00	8.00	10.00	12.00
0.50	1.67	1.67	1.67	1.67	1.67	1.67
0.55	1.88	1.88	1.88	1.88	1.88	-
0.63	2.20	2.20	2.20	2.20	2.20	-
0.75	2.72	2.72	2.72	2.72	2.72	-
0.88	3.24	3.24	3.24	3.24	3.24	-
1.00	3.76	3.76	3.76	3.76	3.76	-
1.25	4.43	4.43	4.43	4.43	4.43	-
1.50	5.09	5.09	5.09	5.09	5.09	-

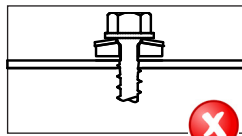
## INSTALLATION INSTRUCTION

Installation instructions must be followed to achieve optimal performance.



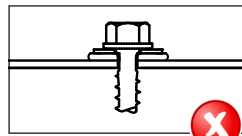
Correct:

When correctly installed optimal performance is achieved



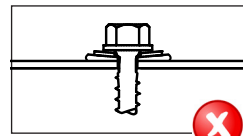
Not tightened enough:

When the screw is not tightened enough the risk of an unsealed and unstable assembly are present



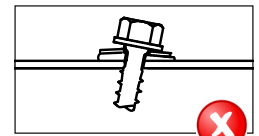
Overtightened:

When overtightened the risk of an unsealed assembly is present. The corrosion resistance can also be reduced



Very overtightened:

When very overtightened the risk of an unsealed assembly is present. The carrying capacity and the corrosion resistance can also be reduced



Tilted angle:

If the angle is tilted the risk of an unsealed assembly is present. The carrying capacity and the corrosion resistance can also be reduced

# 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 identifications:

**MG:06 PG:2390 | HWH 5.5 X L #5 "A" HX8 TC ALU-16B**

(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  
ASTON SWEDEN AB

2018-04-23  
Date of issue