ASTON SWEDEN

WAFER HEAD SCREW

PPS 4.2 X L PHD LOW HEAD

- Low head
- Philips recess
- Length measured from under the head to the tip of the screw
- Ø4.2 outer thread diameter
- Name of screw type

Phillips recess

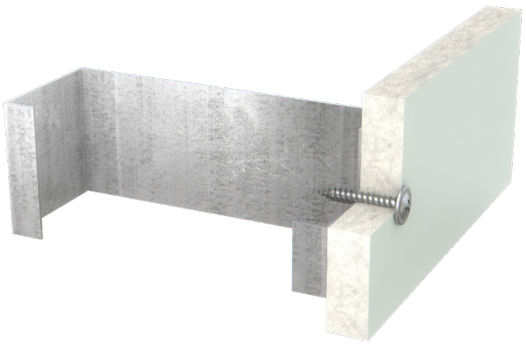
Hardened steel

PRODUCT RANGE

Art.no.	Item name	Thread [mm]	Length L [mm]	Point	Drill capacity [mm]	Head [mm]	Unit
16788	PPS 4.2 X 25 PHD LOW HEAD	Ø4.2	25	S-point	Max 1.0	Ø11.0 PH2	500

ADVANTAGES

- Suitable for fastening of cladding to steel or wood
- Drilling, tapping and fastening in one operation
- S-point for fastening in thin gauge sheeting
- Wafer head for an aesthetic finish
- Surface treated with ZYTEC™ M for optimal corrosion protection
- Available in more than 500 colours (Qualicoat certified facade quality powder)



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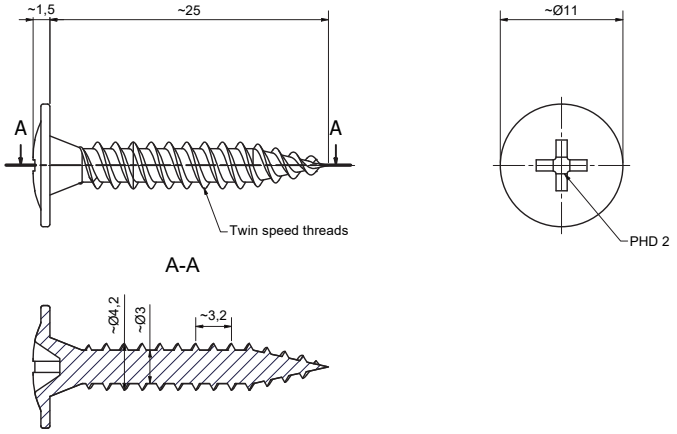
PRODUCT DATA

Technical data	
Head:	Ø11.0 mm Wafer head with Philips 2 recess
Diameter:	Ø4.2 mm
Drill capacity:	Max 1.0 mm (Steel S280GD)
Material:	Hardened steel
Surface treatment:	ZYTEC™ M
Corrosivity category:	C3 according to EN ISO 12944-2



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 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 and the tension resistance of the screw. Thus, the pull-through resistance of the fixed object is not taken into account.

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: Plate or sheet
Supporting object: Steel S280GD - EN 10346
Supporting object: Structural wood, C24
Density, ρ_k = 350 kg/m³

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

All resistances are stated in kN (1 kN ≈ 100 kg)
Safety factor: γ_M = 1.35, k_{mod} = 0.90

Design resistance when loaded in tension, N_{Rd} [kN] - Steel support						
t_I \ t_{II}	0.50	0.55	0.63	0.75	0.88	1.00
5	0.25	0.28	0.32	0.38	0.44	0.50
10	0.25	0.28	0.32	0.38	0.44	0.50
15	0.25	0.28	0.32	0.38	0.44	0.50

Design resistance when loaded in tension, N_{Rd} [kN] - Wooden support	
t_I \ L	25
5	0.62
10	0.46
15	-

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