




# PRODUCT DATA

## Type 17 SDS Hex Head Polycarb ALL-IN-1 Roofing Screw

### Self Drilling Screw (SDS) #12-11

Applications	
<ul style="list-style-type: none"> <li>Polycarbonate sheet to timber fixing</li> <li>Crest fixing polycarbonate roof sheets</li> <li>Pergolas and sheds</li> </ul>	

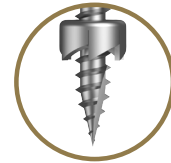
<b>Material</b>	 C1022 Hardened
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<b>Finish</b>	 Class 4
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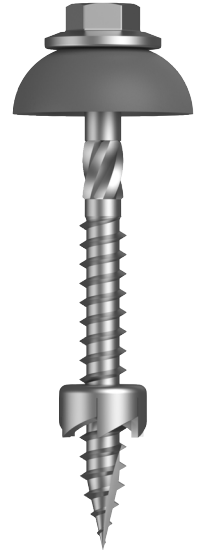
Pullout Values				
Plate Material	Timber Embedment Thickness	<sup>1</sup> Mean Load	<sup>2</sup> Characteristic Load	<sup>3</sup> Working Load
	(mm)	(N)	(N)	(N)
F7 Pine	35	5800	5300	2100
Hardwood	35	8250	6350	2550



Large domed sealing washer to support and seal polycarbonate roofing



Expansion hole cutter creates a thermal expansion hole in the roofing sheet



Mechanical Properties				
Torsional Strength	Mean Tensile Strength	<sup>1</sup> Mean Shear Strength	<sup>2</sup> Characteristic Tensile Strength	<sup>2</sup> Characteristic Shear Strength
(Nm)	(N)	(N)	(N)	(N)
9.4	13950	8350	11050	6650

Note: 1000N = 1kN

<sup>1</sup> Mean Load/Strength is the average ultimate strength of samples tested.

<sup>2</sup> Characteristic Load/Strength: 95% of these screws are expected to have a strength greater than the loads shown.

<sup>3</sup> Working Load is the governing minimum allowable load obtained by comparing relevant concrete and steel working loads. Factor of Safety (FOS=2.5 for steel, FOS=2.5 for timber and FOS=3.0 for concrete) are already included.

All values are obtained under laboratory conditions using DRILLX product. Safety factors should be considered for design purposes. Actual pullout loads may differ slightly depending on certain properties of the base material.

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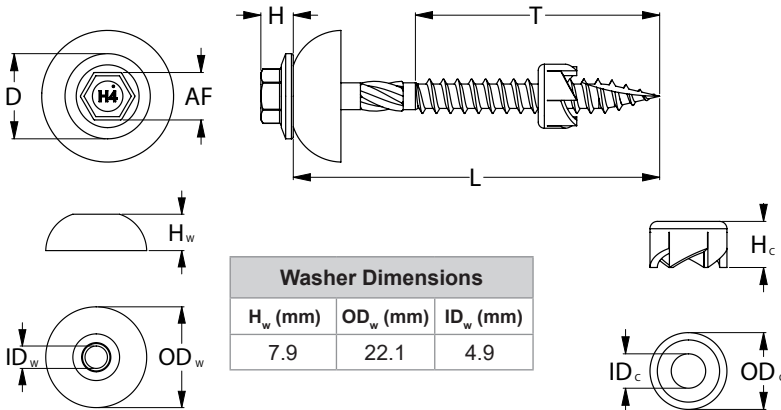




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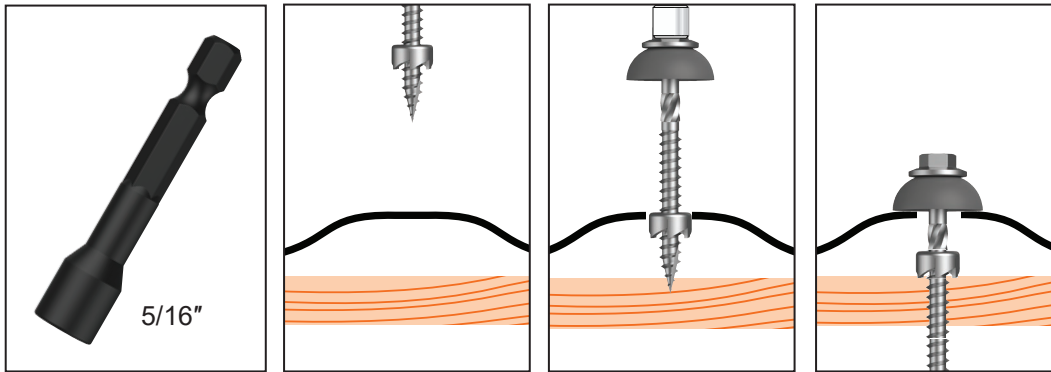
Part	QFind	Gauge	TPI	Length	Thread Length	Head Height	Head ø	Drive Size	Pack Qty
				L (mm)	T (mm)	H (mm)	D (mm)	AF (inch)	
T9PW4PA1211050	Q871	12	11	50	35	5.7	14.3	HEX 5/16"	250
T9PW4PA1211065	Q873			65	45				



Washer Dimensions		
H <sub>w</sub> (mm)	OD <sub>w</sub> (mm)	ID <sub>w</sub> (mm)
7.9	22.1	4.9

Cutter Dimensions		
H <sub>c</sub> (mm)	OD <sub>c</sub> (mm)	ID <sub>c</sub> (mm)
6.5	10.5	4.7

### Installation



#### Recommended Hobson HEX 5/16 inch Drive Bit

Part	QFind	Length (mm)
TXDIPNSS31045	BA18	45
TXDIPNSS31065	B090	65

\*Installation with impact drivers not recommended.

#### Installation Guide

1. Use a cordless screw driver set to 1,500 RPM. Fit the HEX Drive Bit over the screw and place at the fastening position.
2. Consistently apply firm pressure to the screw driver while drilling.
3. Allow the cutter to cut an expansion hole in the polycarbonate sheet.
4. Tighten until dome washer is in firm contact with the sheet without the latter compressing or deforming.

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