




PRODUCT DATA

Metal Stitching Screw Flange Hex Head

Self Drilling Needle Point Screw (SDS) #10-12

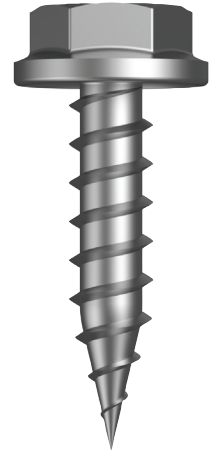
Applications	
<ul style="list-style-type: none"> • General fixing lightweight steel • Sheet metal stitching • Thin gauge sheet steel 	

Material	 C1022 Hardened
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Finish	 Class 4
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Pullout Values				
Plate (Purlin)	Metal Plate Thickness	¹ Mean Load	² Characteristic Load	³ Working Load
	(mm)	(N)	(N)	(N)
G550	0.55	1150	1000	400

10 Gauge Flange Hex Head



Drill Point Test					
Plate (Purlin)	Metal Plate Thickness	Load	Drill Speed	Drill Time	Drill Time
	(mm)	(kg)	(RPM)	(Max. individual) Seconds	(Max. average) Seconds
G550	0.55	13	2200	1.5	1.0

Mechanical Properties				
Torsional Strength	¹ Mean Tensile Strength	¹ Mean Shear Strength	² Characteristic Tensile Strength	² Characteristic Shear Strength
(Nm)	(N)	(N)	(N)	(N)
5.4	9300	5600	6800	4100

Note: 1000N = 1kN

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

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

³ 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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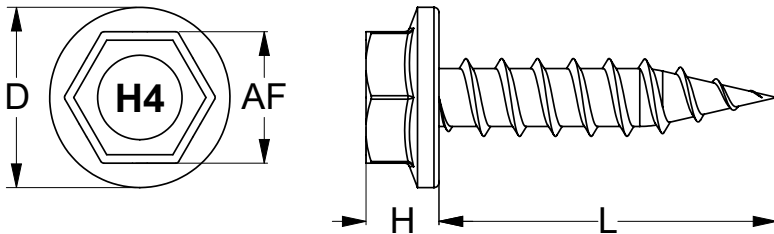




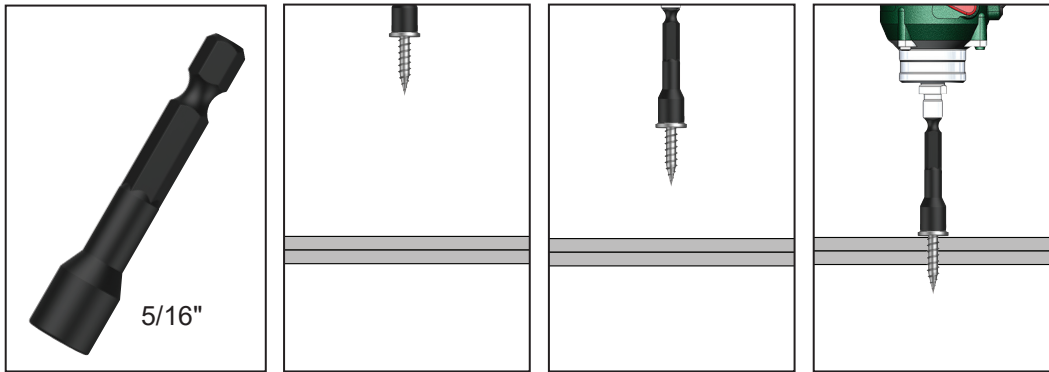
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Part	QFind	Gauge	TPI	Length/Thread Length		Head		Pack Qty
				L (mm)	H (mm)	D (mm)	AF (inch)	
T9PN4FH1012020	Q150	10	12	20	4.8	11.4	Hex 5/16"	1000



Installation



Recommended
HEX 5/16" Drive Bit:

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

Installation Guide

1. Use a cordless screw driver set at max 2,500 RPM. Fit the HEX Drive Bit over the screw and place at the fastening position.
2. Apply consistently firm pressure to the screw driver while the screw is drilling.
3. Care should be taken not to over-tighten the screw.

*Installation with impact drivers not recommended.

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