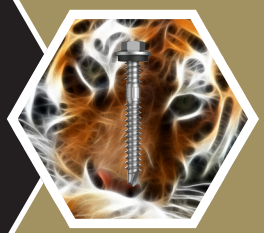
PRODUCT DATA



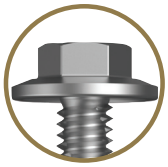
S500 SDS Flanged Hex

Self-Drilling Screw (SDS) #12-24

Applications
• Metal to metal fixing • Cladding metal sheets • Signs, fences, and sheds • Thick steel purlins and hot rolled steel • Plumbing, steel fabrication, and HVAC systems • Ideal for corrosive conditions

DRILLX®

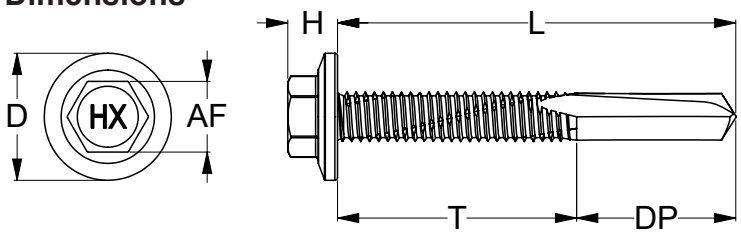
12 Gauge Hex Head



Material	B316 316 Stainless CL 4 R1500
Finish	R15 R1500 Bi-Metal 316 Stainless

BiHFiX™

Dimensions



Part	QFind	Gauge	TPI	Length	Thread Length	Drill Point Length	Head ø	Head Height	Drive Size
				L (mm)	T (mm)	DP (mm)	D (mm)	H (mm)	AF (inch)
T6X5XFH1224044	**QB42**	12	24	44	27	17	14	5.5	HEX 5/16”

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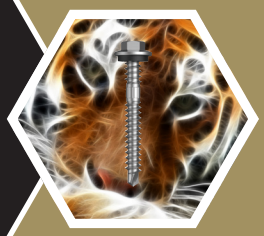

S500 SDS Flanged Hex

Pullout Values

Plate (Purlin)	Metal Plate Thickness	[1]Mean Load	[2]Characteristic Load	[3]Working Load
	(mm)	(N)	(N)	(N)
G2	3.0	5100	4300	1700
HRS	5.0	11200	9950	4000
HRS	6.0	11750	10950	4400
HRS	8.0	11950	11500	4600

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)
11.3	12500	7500	12300	7400

Drill Point Test

Plate (Purlin)	Metal Plate Thickness	Load	Drill Speed	Drill Time	Drill Time
	(mm)	(kg)	(RPM)	(Max. individual) Seconds	(Max. average) Seconds
CRS	8	27	2200	10	7

Note: 1000N = 1kN
1 Mean Load/Strength: 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: the governing minimum allowable load obtained by comparing relevant concrete and steel working loads. Factors 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® products. Safety factors should be considered for design purposes. Actual pullout loads may differ depending on certain properties of the base material.

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S500 SDS Flanged Hex

Installation

1. Use a cordless screw driver set at max. 2200–3000 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 the screw is drilling.
3. Take care not to overtighten the screw.

***Installation with impact drivers is not recommended.**

Recommended for use with:

SPRING NUT SETTER S2 ALLOY STEEL BLACK / impaX DRIVE BIT 1/4		
Part	**QFind**	**Length**
		(mm)
TXDIPSS31065	**BA48**	65
TXDIPSS31150	**BA49**	150

Recommended
Hex 5/16” Drive Bit

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