

Product Technical Data Sheet

4.2 mm DRIVALL® Cement Board Winged Self Drill

PART # HS8100JBWG2 –HS8238JBWG2

Designation	Type	Item#	Nominal Diameter	TPI	Point	Drive	EU DOP Designation
HS	Cement-to -Board	4.2 x	4.2 mm	18	Winged #3 Self drill	LOX, Phillips#2	PSD

APPLICATION:

For attachment of sheathing, siding, OSB or plywood to steel

FEATURE BENEFITS:

The Cement Board screw has “reamer nibs” under the head to ease countersinking and leave smooth clean edges.

Wings allow the screw to drill thru wood into the metal without clogging the threads
Eliminates racking/lifting the material before it penetrates through the metal

INSTALLATION INSTRUCTIONS:

Use a standard screw gun with a depth-sensitive nose piece. Suggested Screw gun specification for optimal performance – 4 amps minimum and RPM range of 1800 to 4,000.

Proper depth setting is paramount in this application.
Overdriving may result in failure of the fastener or strip out of the work surface

MATERIAL:

Carbon steel SAE 1022 | Heat Treat SAE J78 |

SPECIFICATIONS:

Standards	AS/NZ 3566	EN 14566:2009-10	IRC IBC 2006, 2009, 2012
Nominal screw diameter (mm)	4.2 mm		
Head Diameter	9.5 mm		
Screw lengths (mm)	25-60 mm		
Type of thread	Single lead		
Point	#3	Winged	
Recess Type	(ISO 7053)	8 nibs	Wafer

GRABBER

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CORROSION PERFORMANCE:

Surface protection:	"Phosphate"	(ISO 4042)	>11 g/m ²	(ISO9227)	≥24 hours
Surface protection:	"Zinc"	(ISO 4042)	≥ 5 μm A ... E	(ISO9227)	≥48 hours
Surface protection:	"Yellow Zinc"	(ISO 4042)	≥ 5 μm A ... G	(ISO9227)	≥48 hours
Surface protection:	"Grabbergard"	(ISO 4042)	≥ 20 μm	(ISO9227)	≥1000 hours

MECHANICAL PROPERTIES:

SCREW VALUES Fastener Strength (Pss)				Fastener Strength (Pss) NOMINAL (tested)			(ASD) Applied Factor of Safety, Ω = 3.0 (Pss)			(LRFD)Resistance Factor, φ = 0.5 (Pss)		
Designation	Nominal Diameter	Head Diameter	TPI	Tension, (P) kN	Shear (Pss) kN	Tension, (P) kN	Shear (Pss) kN	Tension, (P) kN	Shear (Pss) kN	Tension, (P) kN	Shear (Pss) kN	
08 Series	4.2	8.5	18	8.4	6.2	2.8	2.1	4.2	3.1			

NOMINAL TENSILE PULL-OUT STRENGTH (P _{NOT}), Kilo newton-force kn						(ASD) Applied Factor of Safety, Ω = 3.0					(LRFD)Resistance Factor, φ = 0.5				
Steel Tensile Strength	G300		G450			G300		G450			G300		G450		
Steel Gage	20	18	16	14	12	20	18	16	14	12	20	18	16	14	12
Design Thickness (mm)	0.9	1.1	1.4	1.8	2.6	0.9	1.1	1.4	1.8	2.6	0.9	1.1	1.4	1.8	2.6
Nominal Diameter	kN														
4.2	1.03	1.49	2.76	3.40	6.17	0.34	0.50	0.92	1.13	2.06	0.51	0.75	1.38	1.70	3.08

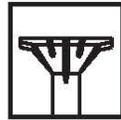
NOMINAL SHEAR (BEARING) OF SCREW CONNECTION OF COLD FORMED STEEL (PNS), kN						(ASD) Applied Factor of Safety, Ω = 3.0					(LRFD)Resistance Factor, φ = 0.5				
Steel Tensile Strength	G300		G450			G300		G450			G300		G450		
Steel Gage	20	18	16	14	12	20	18	16	14	12	20	18	16	14	12
Design Thickness (mm)	0.9	1.1	1.4	1.8	2.6	0.9	1.1	1.4	1.8	2.6	0.9	1.1	1.4	1.8	2.6
Nominal Diameter	kN														
4.2	3.69	4.42	4.88	4.92	5.33	1.23	1.47	1.63	1.64	1.78	1.84	2.21	2.44	2.46	2.67

SIZE	4.2
Minimum Torsional torque (Nm)	≥ 4.8Nm
Fire behavior (EN13501-1:2007)	A1
Surface hardness	>55 HRC
Pull-out MIN. 0.6 metal	> 450 N

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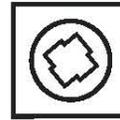
GRABBER®



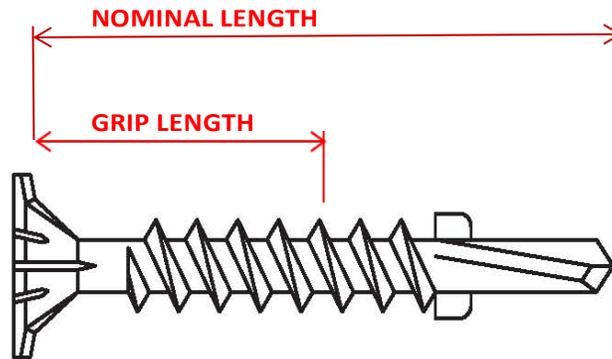
Wafer Head



Drill Point



LOX #2



NOMINAL DIAMETER	NOMINAL LENGTH			GRIP LENGTH	
4.2	1	25	mm	16	mm
4.2	1 1/4	32	mm	23	mm
4.2	1 5/8	41	mm	32	mm
4.2	2	51	mm	42	mm
4.2	2 3/8	60	mm	51	mm

SCREW DESIGNATION (Nom. Size - tpi, head type)	Drill Capacity (mm) min	DRILLING CAPACITY (mm) max
# 4.2-18 Cement Board Screw	0.89	3.56

All values nominal unless otherwise stated. Normal manufacturing tolerances apply.