

Woodgrip™ Fasteners

Woodgrip and HiLo Woodgrip
For metal to wood

Woodgrip is the original sheet to wood fastener designed to self-drill metal panels:

- High Hex Washer Head provides driving stability and a sharp point for quick installation.
- Assembled with a control seal washer for a consistent, weather tight seal and improved installation appearance.
- Zinc plated and Silver Senti™ coated for corrosion protection.
- Alternate mechanical zinc (.001" min thick) plus Silver Senti™ coated offers increased corrosion protection

HiLo Woodgrip is a sheet to wood fastener designed to self-drill metal panels:

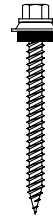
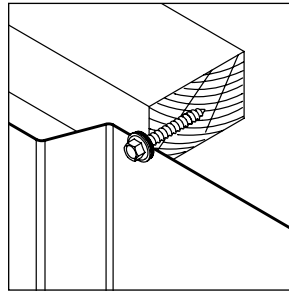
- High Hex Washer Head provides driving stability and a sharp point for quick installation.
- Assembled with a bond seal washer for a consistent, weather tight seal and improved installation appearance.
- Zinc plated and Silver Senti coated for corrosion protection.

Application

**Woodgrip 9–15 HWH
Sharp Point**

**Assembled with Control Seal
Metal to wood**

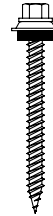
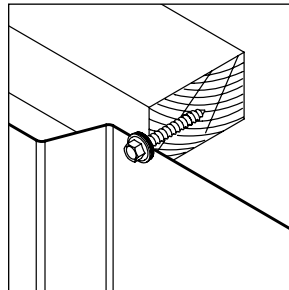
Drilling capacity: 24 ga (.024)
Self-drills through the metal panel
and taps into wood substrate.
Min penetration in wood substrates
should be no less than 1"



1/4" Hex Washer Head
Thread Major Dia: .181 – .175
Thread Minor Dia: .133 – .127
Strength (lbs ult.):
Tensile: 1500
Torsional: 60 in-lbs min.
Shear: 933

**Woodgrip 9–15 HWH
Sharp Point
Mechanical Zinc-.001" min
Assembled with Control Seal
Metal to wood**

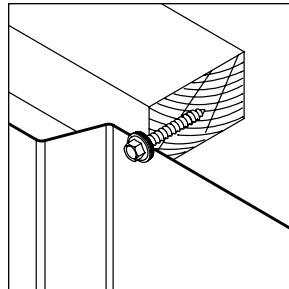
Drilling capacity: 24 ga (.024)
Self-drills through the metal panel
and taps into wood substrate.
Min penetration in wood substrates
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1/4" Hex Washer Head
Thread Major Dia: .181 – .175
Thread Minor Dia: .133 – .127
Strength (lbs ult.):
Tensile: 1500
Torsional: 60 in-lbs min.
Shear: 933

**HiLo Woodgrip 10–15
Assembled Bond Seal washer
Metal to wood**

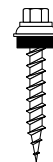
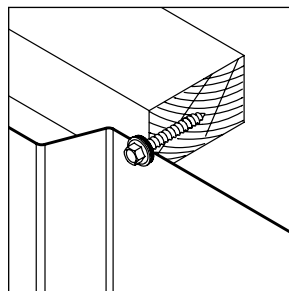
Drilling capacity: 24 ga (.024)
Self-drills through the metal panel
and taps into wood substrate.
Min penetration in wood substrates
should be no less than 1"



1/4" Hex Washer Head
Thread Major Dia: .199 – .191
Thread Minor Dia: .133 – .127
Strength (lbs ult.):
Tensile: 1500
Torsional: 60 in-lbs min.
Shear: 933

**Woodgrip XG 12–8 HWH
Sharp Point
Assembled with Control Seal
Metal to wood**

Drilling capacity: 24 ga (.024)
Self-drills through the metal panel
and taps into wood substrate. Large,
aggressive thread design provides
superior resistance to strip-out, and
superior performance in OSB, plywood,
and 1x4" pine. Min penetration in wood
substrates should be no less than 1"



1/4" Hex Washer Head
Thread Major Dia: .219 – .215
Thread Minor Dia: .133 – .127
Strength (lbs ult.):
Tensile: 2183
Torsional: 60 in-lbs min.
Shear: 1946

Notes

Dimensions are nominal inches unless noted.

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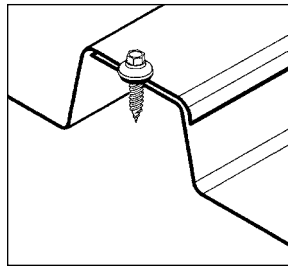
Woodgrip™ Fasteners

Woodgrip and HiLo Woodgrip
For metal to wood

Application

Woodgrip 12 x 3/4 Lap Assembled Bond Seal washer

Drilling capacity: 2 x 24 ga
Panel to panel side lap, end lap and other stitch applications



1/4" Hex Washer Head:
Thread Major Dia: .215 – .208
Thread Minor Dia: .164 – .157
Strength (lbs ult.):
Tensile: 2100
Torsional: 92 in-lbs min.
Shear: 1800

Performance Pounds Ultimate

Pull-out (lbs ult.) Wood: Spruce, Pine, Fir		Pull-over
#9 Woodgrip Control Seal Washer		
1-1/2" Penetration	748	28 ga (110 ksi): 577
1" Penetration	542	26 ga (70 ksi): 637
		24 ga (70 ksi): 800
#10 Hi Lo Woodgrip Bond Seal Washer		
1-1/2" Penetration	820	28 ga (110 ksi): 577
1" Penetration	524	26 ga (70 ksi): 637
		24 ga (70 ksi): 800

Pull-out (lbs ult.)		% Increase Strip-out vs. Woodgrip (in-lbs)	Pull-over
#12 Woodgrip XG Control Seal Washer			
SPF 1-1/2" Penetration	874	20	28 ga (110 ksi): 577
SPF 1" Penetration	571	20	26 ga (70 ksi): 637
1x4" Pine	590	34	24 ga (70 ksi): 800
3/4" Plywood	587	25	
5/8" Plywood	446	31	
1/2" Plywood	384	39	
23/32" OSB	524	21	
19/32" OSB	456	31	

Notes: Woodgrip and HiLo pull-out strength values may vary from tested loads depending upon specific wood density variations. Woodgrip and HiLo pull-over strength values are based on .035" thick, 1/2" OD Control Seal or Bond Seal washers, and have been updated to reflect common tensile strengths of metal panels as a function of panel thicknesses. Percent increase strip-out values of the Woodgrip XG over the standard Woodgrip are typical results, as encountered when fasteners are installed at 2500 rpm until full strip-out occurs. Ultimate values listed are the result of laboratory testing. The specific job conditions should be considered, and appropriate safety factors applied, when specifying the proper fasteners.

Fasteners installed in less than 1" of solid wood may have an increased potential for sealing or connection failure over time. This may be due to the fasteners being stripped out during installation and/or due to the lack of adequate wood fiber material to hold the fastener in place during thermal movement cycles or other forces which may be exerted upon the connection.

Selection

Size	Woodgrip	HiLo Woodgrip	Mechanical Zinc Woodgrip	Woodgrip XG
1"	C0161-CCF	A1067-CDF	C0167-CCF	A1806-EMF
1-1/2"	C0261-CCF	A1072-CDF	C0267-CCF	A1841-EMF
2"	C0381-CCF	A1077-CDF	C0387-CCF	A1851-EMF
2-1/2"	C0461-CCF	A1082-CDF	C0467-CCF	A1856-EMF
3"	C0485-CCF	A1087-CDF	C0487-CCF	A1861-EMF
12 x 3/4" (1/4" HWH)	A1701-ECF	A1701-EAF	-	-

Installation

Tools: 0 – 2500 rpm screw driver equipped with depth sensing nose piece.

Options

