

Woodgrip™ Fasteners

Woodgrip, Woodgrip HiLo, Woodgrip XG,
Woodgrip Low Profile, #14 Type 17-A MP
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.
- Extended corrosion resistant coating system.

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

- Superior performance in OSB, plywood and 1x4 pine.
- Superior resistance to stripout
- Extra aggressive thread design.
- Improved pullout and backout values over other wood screws by as much as 30%.
- Extended corrosion resistant coating system.

Woodgrip # 14 Type 17-A milled point carbon steel self-tapping fasteners are designed for attaching both metal to wood and metal to metal:

- These fasteners do not require a pre-drilled hole when attaching 26 and 24 gage metal to wood.
- Corrosion resistant coating system.

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

- High Hex Washer Head provides driving stability and a milled point for quick installation.
- Assembled with a bond seal washer for a consistent, weather tight seal and improved installation appearance.
- Extended corrosion resistant coating system.

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

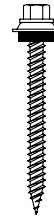
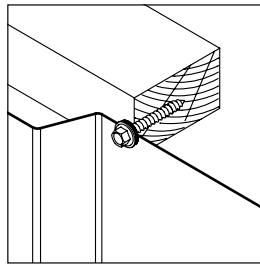
- Low profile head for pleasing appearance.
- Type 17 milled point ensures great drill performance.
- HiLo thread with added pull-out resistance.
- Available with bond seal for exterior sidewall application or no washer for interior applications.
- Corrosion resistant coating system.

Application

**9–15 Woodgrip HWH
Sharp Point**

**Assembled with Control Seal
Metal to wood**

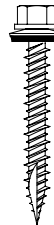
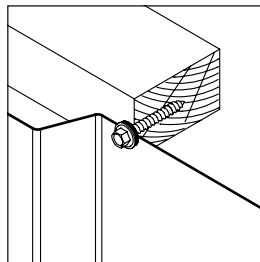
Drilling capacity: 24 ga (.024)
Self-drills through the metal panel
and taps into wood substrate.
Min penetration in wood substrates
should be no less than 1"



1/4" Hex Washer Head
Thread Major Dia: .181 – .175
Thread Minor Dia: .133 – .127
Strength (lbs ult.):
Tensile: 1751
Torsional: 60 in-lbs min.
Shear: 1223

**10–15 Woodgrip HiLo HWH
Type 17 Milled Point
Assembled Bond Seal washer
Metal to wood**

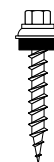
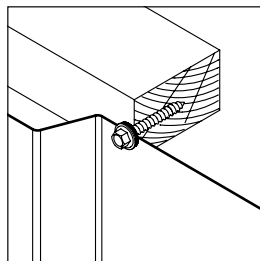
Drilling capacity: 24 ga (.024)
Self-drills through the metal panel
and taps into wood substrate.
Min penetration in wood substrates
should be no less than 1"



1/4" Hex Washer Head
Thread Major Dia: .199 – .191
Thread Minor Dia: .133 – .127
Strength (lbs ult.):
Tensile: 1751
Torsional: 60 in-lbs min.
Shear: 1223

**12–8 Woodgrip XG 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: .215 – .209
Thread Minor Dia: .133 – .127
Strength (lbs ult.):
Tensile: 1751
Torsional: 60 in-lbs min.
Shear: 1223

Notes

Dimensions are nominal inches unless noted. The specific job conditions should be considered and appropriate safety factors applied when specifying the proper fasteners.

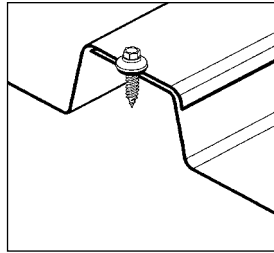
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Application

**12 x 3/4 Woodgrip Lap
Assembled Bond Seal washer**

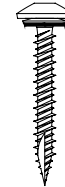
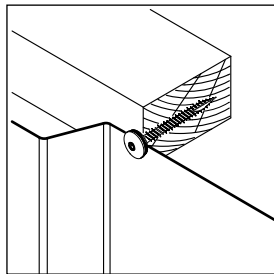
Drilling capacity: 2 x 24 ga
Panel to panel side lap, end lap
and other stitch applications



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

**10-15 Woodgrip Low Profile HiLo
Exterior Sidewall Fastener, Bond Seal**

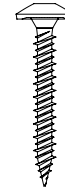
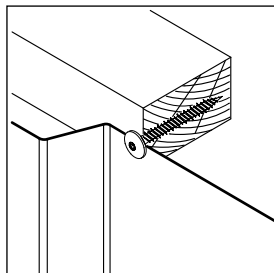
Drilling capacity: 24 ga. (.024)
Self-drills through the metal panel
and taps into wood substrate.
Min penetration in wood substrates
should be no less than 1"



T25 TORX Pan Head:
Thread Major Dia: .199 – .191
Thread Minor Dia: .133 – .127
Strength (lbs ult.):
Tensile: 1751
Torsional: 60 in-lbs min.
Shear: 1223

**10-15 Woodgrip Low Profile HiLo
Interior Liner Panel, No Washer**

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"

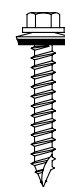
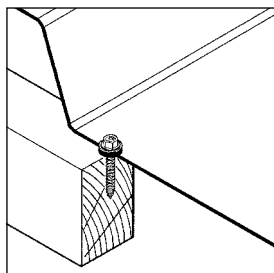


T25 TORX Pan Head:
Thread Major Dia: .199 – .191
Thread Minor Dia: .133 – .127
Strength (lbs ult.):
Tensile: 1751
Torsional: 60 in-lbs min.
Shear: 1223

Available painted white only.

**#14 Type 17-A Milled Point
Metal to wood**

Self-drilling metal thickness:
Sheet .018 – .030
Thickness is based on normal,
single or multiple material thickness
combined for total.
Min depth penetration into the
wood sub structure: 1"



5/16" AF Hex Washer Head
Thread Major Dia: .254 – .248
Thread Minor Dia: .185 – .178
Strength (lbs ult.):
Tensile: 3500
Torsional: 125 in-lbs
Shear: 2400

Notes

Dimensions are nominal inches unless noted. The specific job conditions should be considered and appropriate safety factors applied when specifying the proper fasteners.

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Performance Pounds Ultimate

Description		Pull-out (lbs ult.) Wood: SPF	Pull-over
#9 Woodgrip Control Seal	1-1/2" Penetration	748	29 ga (110 ksi): 577
	1" Penetration	542	26 ga (70 ksi): 637 24 ga (70 ksi): 800
#10 Woodgrip HiLo Bond Seal	1-1/2" Penetration	820	29 ga (110 ksi): 577
	1" Penetration	524	26 ga (70 ksi): 637 24 ga (70 ksi): 800
#10 Woodgrip Low Profile Bond Seal, No Washer	1-1/2" Penetration	820	29 ga (110 ksi): 577
	1" Penetration	524	26 ga (70 ksi): 637 24 ga (70 ksi): 800
#14 Type 17-A Milled Point Bond Seal	1" Penetration	1013	26 ga (.018): 564 24 ga (.024): 810 22 ga (.030): 1097

Description		Pull-out (lbs ult.)	% Increase Strip-out vs. Woodgrip (in-lbs)	Pull-over
#12 Woodgrip XG Control Seal Washer	SPF 1" Penetration	583	20	29 ga (110 ksi): 577
	SPF 1-1/2" Penetration	1029	20	26 ga (70 ksi): 637
	1x4" Pine	590	34	24 ga (70 ksi): 800
	3/4" Plywood	583	25	–
	5/8" Plywood	368	31	–
	1/2" Plywood	357	39	–
	23/32" OSB	412	21	–
	19/32" OSB	336	31	–
	15/32" OSB	225	17	–

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 Control Seal or Bond Seal washer and have been updated to reflect common tensile strengths of metal panels as a function of panel thicknesses.

TORX® pan head HiLo pull-out strength values may vary from tabulated loads depending upon specific wood density variations. Pull over strength values are based on ½" nominal OD TORX® head and AZ55 Galvalume steel material.

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 fastener.

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.

#9 and #10 Woodgrips are not recommended in applications of less than 1" of wood.

Test values obtained from lab reports 4899.12, 4954.12, 4381.07

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Selection

Description	Available Lengths (L)	Example Code				
		WG-	#9x	1-1/2-	CS1/2	
		Type	Diameter	Length	Head Style	Washer
#9-15 Woodgrip with Control Seal	1", 1-1/2", 2", 2-1/2", 3"	WG-	#9x	L-	-	CS1/2
#10-15 HiLo Woodgrip with Bond Seal	1", 1-1/2", 2", 2-1/2", 3"	WGHLMP-	#10x	L-	-	GB1/2
#12-8 Woodgrip XG with Control Seal	1", 1-1/2", 2", 2-1/2", 3"	WGXG-	#12x	L-	-	CS1/2
#12 Lap with Control Seal	3/4"	WGL-	#12x	L-	-	CS1/2
#12 Lap with Bond Seal	3/4"	WGL-	#12x	L-	-	GB1/2
#10-15 Exterior Low Profile Sidewall	1", 1-1/2", 2"	WGLPMP-	#10x	L-	PN-T25-	GB1/2
#10-15 Interior Liner Panel No Washer, White	1"	WGLP-	#10x	L-	PN-T25-	-
#14 Type A Milled Point with Bond Seal	1", 1-1/2", 2", 2-1/2", 3"	TAMP-	#14x	L-	HW5/16-	GB19/32

Installation

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

Use of impact guns or hammer drills is not recommended.

Options

VistaCoat™



Painted

