

Hex Construction Lag/Ledger Board Screws Testing Data*

Specifications						Strength			Withdrawal from Wood (lbs/in.)		
Diameter	Minor Thread Diam.	Outside Thread Diam.	Shank Diam.	Flange Diam.	Hex Size	Tensile (psi)	Shear (psi)	Bending Yield (psi)	.44 SG	.48 SG	.63 SG
5/16"	0.168	0.279	N/A	0.525	.31 (5/16")	170,000	104,000	171,000	588	771	N/A
3/8"	0.201	0.306	0.228	0.62	.31 (5/16")	167,000	99,000	177,000	988	1,015	1,709

Lateral Load Test Average Strength

Screw Size	Yield Load (lbs)			
	.49 SG		.62 SG	
	Thread-in-Shear	Shank-in -Shear	Thread-in-Shear	Shank-in -Shear
3/8 x 3-5/8	633	528	659	564
3/8 x 5	741	642	692	680

*.44 SG (Specific Gravity) was Red Pine

*.49 SG (Specific Gravity) was Southern Yellow Pine (lumberyard)

*.62 SG (Specific Gravity) was Southern Yellow Pine (university)

****All necessary safety factors are not applied to this data. Please consult with your local building code office for safety factor requirements.**

***University of Wyoming statement regarding Midwest Hex Construction Lag/Ledger Board Screws: The Midwest Fastener screws tested here in met or exceeded expected performance based on National Design Specification (NDS) guidelines. Relative high factory of safety as compared to NDS design values for withdrawal strength indicate that the withdrawal performance of the screws exceeds generally accepted engineering design practices. Acceptable factors of safety for shear testing (lateral load) indicate that the screws meet expected performance relative to the NDS.

Midwest Fastener Corp.
9031 Shaver Road
Portage, MI 49024-6164
Tel: 1-800-444-7313
Fax: 1-800-388-9798
Email: saleshelp@mwf.net

SABERDRIVE
Bigger Bite. Better Drive.



Flyer #399085