Withdrawal (Pull-out) Capacities
(pounds per inch of thread penetration)

Lumber Species	Specific Gravity	5/16" Shank Lag Screw	3/8" Shank Lag Screw	#10 Wood Screw
Douglas Fir-Larch	0.5	340	390	173
Douglas Fir-South	0.46	301	344	146
Englemann Spruce-Lodgepole Pine	0.46	301	344	146
Hem-Fir	0.43	271	311	128
Hem-Fir (North)	0.46	301	344	146
Southern Pine	0.55	393	451	209
Spruce-Pine-Fir	0.42	262	301	122
Spruce-Pine-Fir (South)	0.36	209	238	90
Western Cedars	0.36	209	238	90
OSB/Plywood	0.5	340	390	173

Assumptions:

-Tabulated values above based on American Wood Council, NDS 2005 Table 11.2A

-Information for reference only. Engineer of Record shall be consulted for actual design.

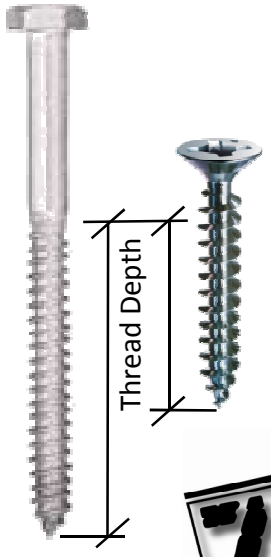
-Thread depth does not include roofing thickness

-Wind Uplift Load Duration, 10 minutes: $C_D = 1.6$

-Rooftop Temperature Range, $100^{o}F < T \leq 125^{o}F$: $C_t = 0.8$

-Thread penetration into side grain of structural member

-Values listed above for dry ($MC \leq 19\%$) lumber



ZILLA®
So Simple it's Scary!℠