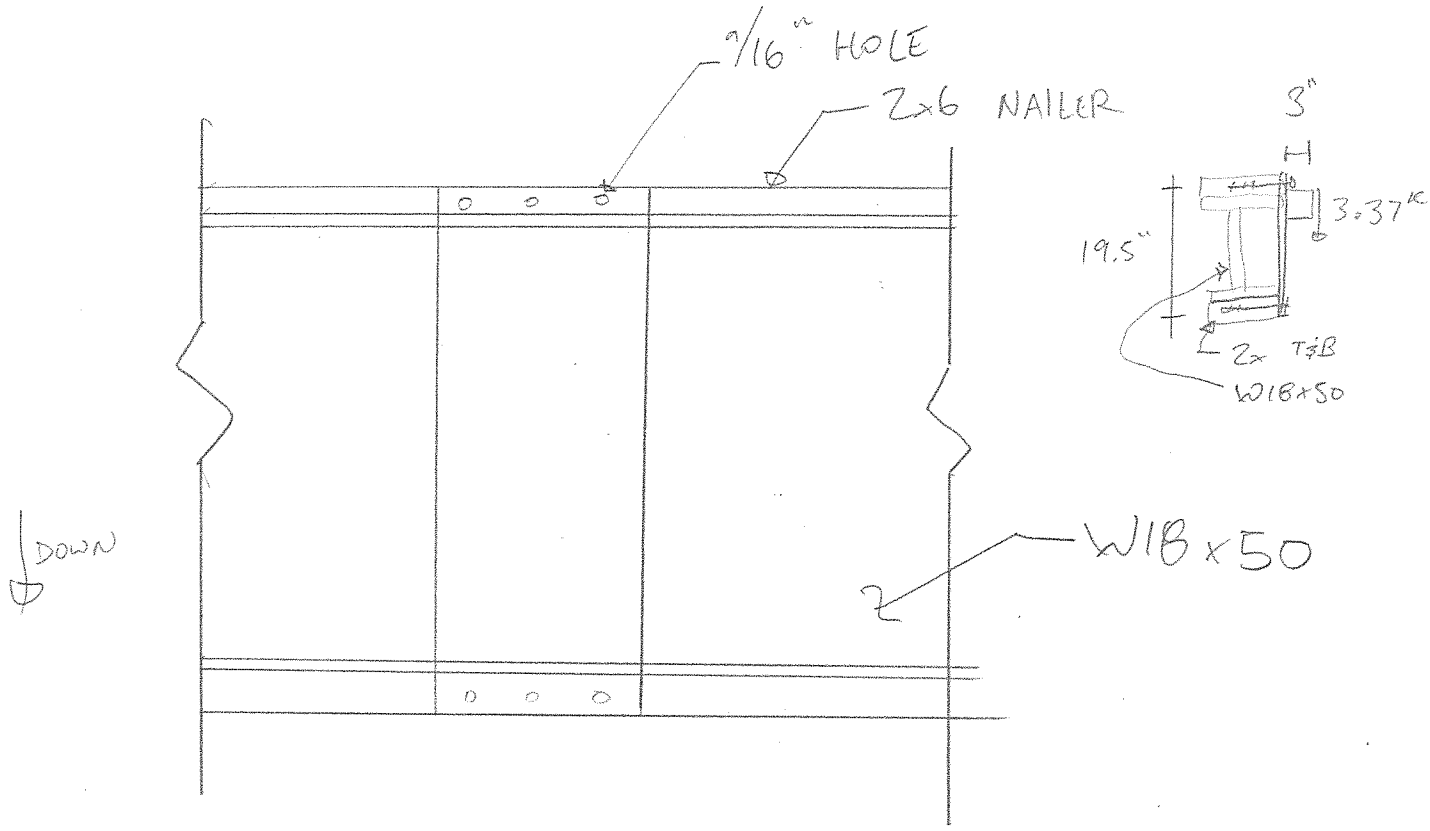


LOAD = 3.37^{K} (ASD), DOWN
USE 1/2" LAG

$T/C = \frac{3.37^{K} \times 3''}{19.5''} = 0.518^{K}/3 \text{ bolts} = 173 \frac{\#}{\text{BOLT}}$ Tension

$V = \frac{3.37^{K}}{6 \text{ bolts}} = 0.562^{K}/\text{BOLT}$

Design Method	Allowable Stress Design (ASD)
Connection Type	Lateral loading
Fastener Type	Lag Screw
Loading Scenario	Single Shear
	Submit Initial Values

Main Member Type	Douglas Fir-Larch
Main Member Thickness	5.5 in.
Main Member: Angle of Load to Grain	0
Side Member Type	Steel
Side Member Thickness	1/4 in.
Side Member: Angle of Load to Grain	0
Washer Thickness	1/8 in.
Nominal Diameter	1/2 in.
Length	4 in.
Load Duration Factor	C_D = 1.0
Wet Service Factor	C_M = 1.0
End Grain Factor	C_eg = 1.0
Temperature Factor	C_t = 1.0

Calculate Connection Capacity

Connection Yield Mode Descriptions | Limits of Use

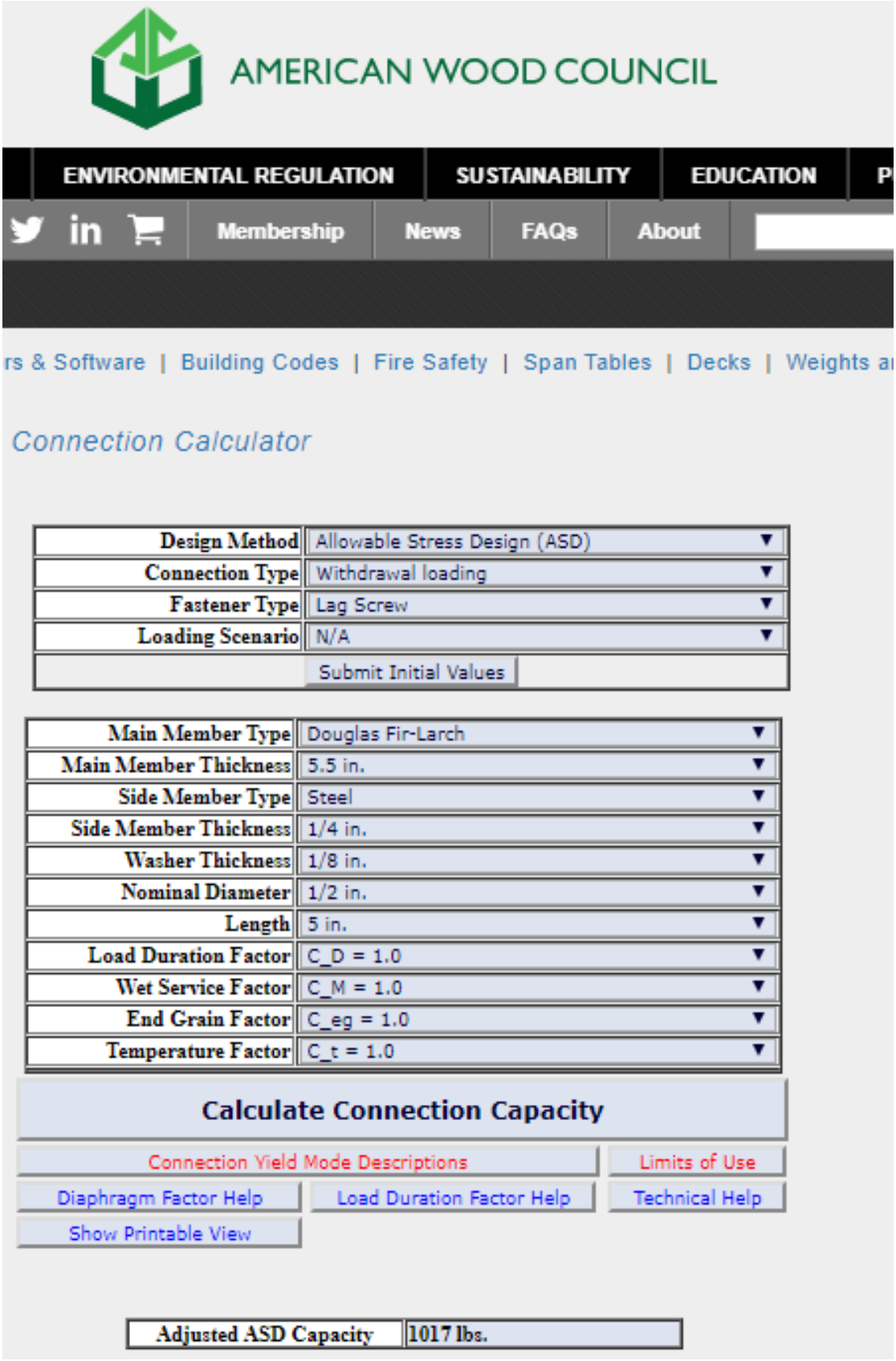
Diaphragm Factor Help | Load Duration Factor Help | Technical Help

Show Printable View

Connection Yield Modes

Im	1721 lbs.
Is	2017 lbs.
II	801 lbs.
IIIm	924 lbs.
IIIs	517 lbs.
IV	540 lbs.

Adjusted ASD Capacity	517 lbs.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Connection Calculator
Design Method
Allowable Stress Design (ASD)
Connection Type
Withdrawal loading
Fastener Type
Lag Screw
Loading Scenario
N/A
Submit Initial Values
Main Member Type
Douglas Fir-Larch
Main Member Thickness
5.5 in.
Side Member Type
Steel
Side Member Thickness
1/4 in.
Washer Thickness
1/8 in.
Nominal Diameter
1/2 in.
Length
5 in.
Load Duration Factor
C_D = 1.0
Wet Service Factor
C_M = 1.0
End Grain Factor
C_eg = 1.0
Temperature Factor
C_t = 1.0
Calculate Connection Capacity
Connection Yield Mode Descriptions
Limits of Use
Diaphragm Factor Help
Load Duration Factor Help
Technical Help
Show Printable View
Adjusted ASD Capacity
1017 lbs.