

L. Given		
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Screw Diameter Screw Cross Section Area Screw Yield Strength	$d := 6 \ mm$ $A := (\pi \cdot d^2) \cdot 4^{-1} = (2.827 \cdot 10^{-5}) \ m^2$ $F_y := 92 \ ksi = 634.318 \ MPa$	
Section Modulus of Screw	$S \coloneqq \left(\pi \cdot d^3\right) \cdot 32^{-1} = \left(2.3\right)$	
Cross Section	$S = (N \cdot a) \cdot 32 = (2.1)$	121•10 ) 111
Unfactored Wind Load	$F_{wl} \coloneqq 0.25 \ kN$	
Moment Arm	r = 19  mm	
2. Screw Bending Strength Ch	neck	
Factored Wind Moment Moment Resistance	$M_f \coloneqq 1.4 \cdot F_{wl} \cdot r = 0.007    extbf{kN} \cdot  extbf{m} \ M_r \coloneqq 0.9 \cdot S \cdot F_y = 0.012    extbf{kN} \cdot  extbf{m}$	
	$CSR \coloneqq \frac{M_f}{M_r} = 0.549$	Design OK!