

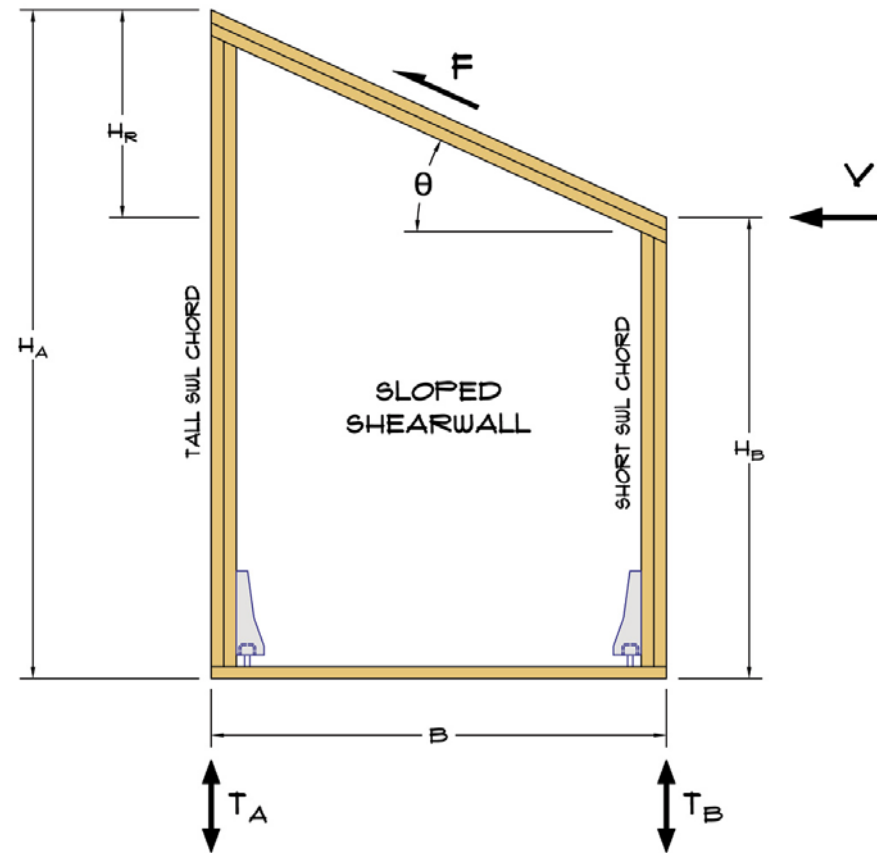
**SLOPED SHEARWALL CALCULATIONS**

**Input Data:**

Horizontal Shear Force (V)	2,165 lbs
Height of Tall SWL Chord ( $h_A$ )	14.93 ft
Height of Short SWL Chord ( $h_B$ )	8.00 ft
SWL Length (b)	12.00 ft

**Calculated Data:**

Roof / Diaphragm Pitch ( $\theta$ )	30.0 deg.	6.93 :12
Height Difference of Chords ( $h_r$ )	6.93 ft	
Unit Shear (v)	180.4 plf	
Force at Top of Shearwall (F)	2,500 lbs	
Vertical Force at Short SWL Chord ( $F_v$ )	1,250 lbs	
Uplift at Tall SWL Chord ( $T_A$ )	<b>1,443 lbs</b>	
Uplift at Short SWL Chord ( $T_B$ )	<b>2,694 lbs</b>	
Averaged SWL Height Uplift ( $T_{AVG}$ )	2,068 lbs	



Location: SWL A