How to Calculate an Observatory Wall Height by Mike Dodd

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$H_{elev} = Tan(A_{elev}) * D_{wall}$

EXAMPLE

Choose or measure A elev minimum desired or possible (if limited by trees) elevation (assume 25°)

Measure D wall distance from telescope center to wall (assume 60")

Measure H scope height of telescope centerline above floor

Calculate H_{elev}

 $Tan(25^\circ) = 0.466$

H = 0.466 * 60

H elev = 27.96"

Wall may be 27.96" above telescope centerline height (H $_{\mbox{scope}}$)

Add H scope to H elev for total wall height

