

WIND FORCE CALCULATIONS

WIND FORCE 20 #/ϕ'

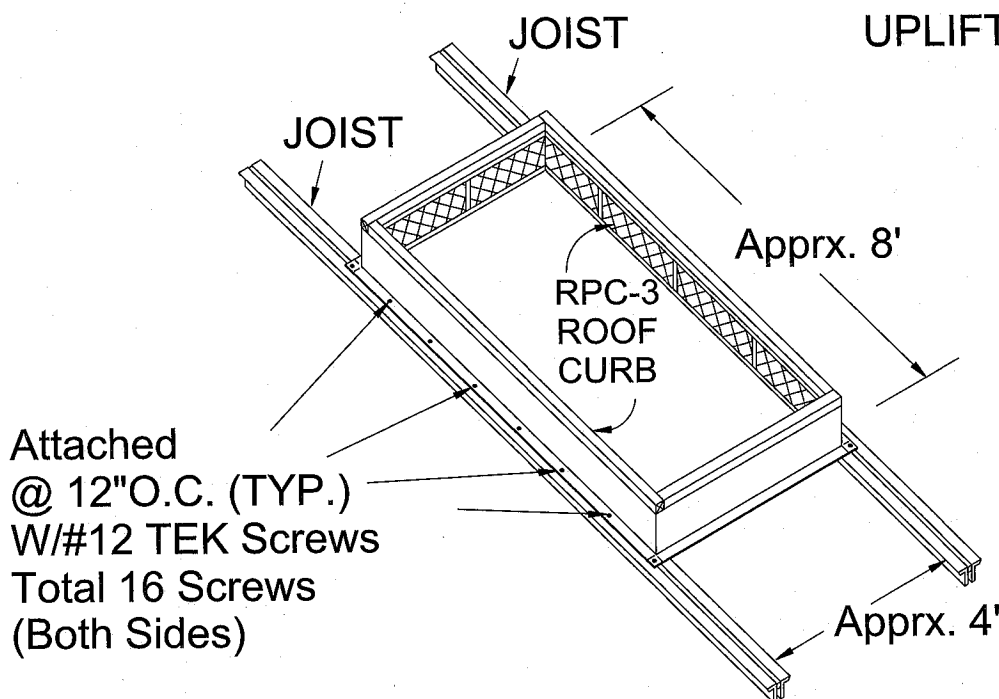
UPLIFT FORCE $(.7)(20) = 14\#/\phi'$

AREA = 4' X 8' = 32 SQ. FT.

UPLIFT LOAD TOTAL = $(32\text{SQ.FT.})(14\#/\text{SQ. FT.}) = 448\#$

① WT OF UNIT 150#

TOTAL
UPLIFT = 298#



UPLIFT FORCE AT ATTACHMENT

$$P = \frac{298}{16} = 18.6\#$$

ATTACHED W/ #12 TEK SCREWS

ALLOWABLE TENSION LOAD / SCREW = 325# > 18.6#

°.°. UNIT OK FOR UPLIFT

② SAME LOAD / SCREW FOR 5' X 6' UNIT

°.°. UNIT OK FOR UPLIFT

FIGURE 10