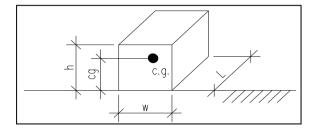
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Engineer:	XXX		

RBI TORUS 1500 INDOOR DUAL FUEL VERTICAL - SEISMIC ANCHORAGE (ASCE 7-16/IBC 2000)

Slab on Grade Applications Only

Equipment Parameters:

weight, $W_p =$	1077.42	LBS.
w =	32.44	in.
L =	67.50	in.
h =	75.31	in.
cg =	27.50	in.



Seismic Parameters:

S _S =	1.800	ASCE 7-16 Figure 22-1 using 84th percentile value	Site Class = D 👻
$a_p =$	1.000	(ASCE 7-16 Table 13.6-1)	
$I_p =$	1.500	(ASCE 7-16 Table 13.1.3)	Seismic Use Group = IV 👻

$R_p =$	1.500	(Default value for Anchorage per ASCE 7-16 13.6-1)	
$F_a =$	1.032	(ASCE 7-16 Table 11.4-1)	
$S_{MS} = F_a * S_s =$	1.858	(ASCE 7-16 Eqn. 11.4-1)	
$S_{DS} = 2/3^*S_{MS} =$	1.239	(ASCE 7-16 Eqn. 11.4-3)	
Seismic Design Category = D			

Seismic Force:

$F_p = (0.4*a_p*S_{DS}*W_p)/(R_p/I_p) =$	533.9	LBS. (ASCE 7-16 Eqn. 13.3-1)		
Upper Limit: $F_{pMAX} = 1.6^*S_{DS}^*I_p^*W_p =$	3203.7	LBS. (ASCE 7-16 Eqn. 13.3-2)		
Lower Bound: $F_{pMIN} = 0.3^*S_{DS}^*I_p^*W_p =$	600.7	LBS. (ASCE 7-16 Eqn. 13.3-3)		
F _{p, DESIGN} = 600.7 LBS.				

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Engineer:			

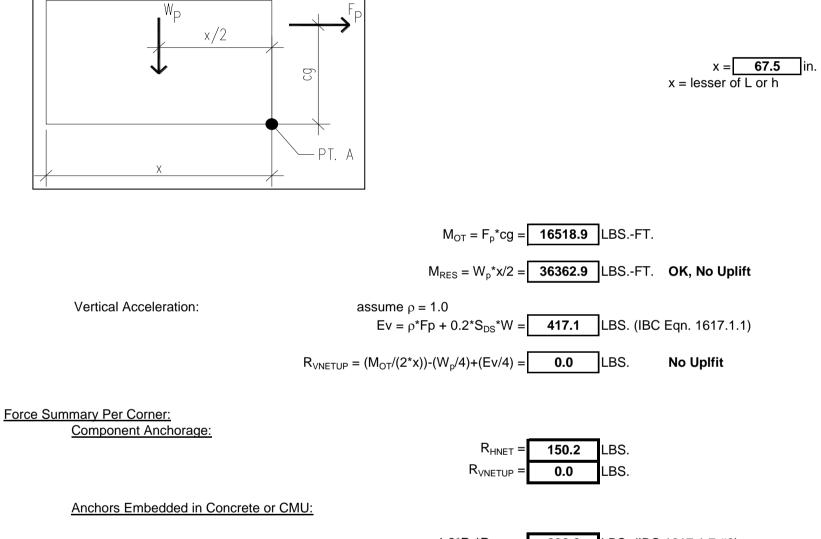
RBI TORUS 1500 INDOOR DUAL FUEL VERTICAL - SEISMIC ANCHORAGE (ASCE 7-16/IBC 2000)

Design Anchorage Force:

Horizontal Shear Force Per Anchor:

 $R_{\rm H} = F_{\rm p}/4 =$ **150.2** LBS.

Overturning Resistance About Point A:



$1.3^{*}R_{p}^{*}R_{HNET} =$	292.8	LBS. (IBC 1617.1.7 #2)
$1.3^{*}R_{p}^{*}R_{VNETUP} =$	0.0	LBS. (IBC 1617.1.7 #2)