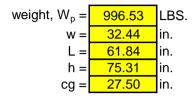
Project: XXX page: 1 of 2

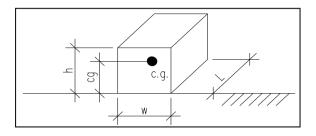
Date: 6/23/2020 Engineer: XXX

# RBI TORUS 1250 INDOOR DUAL FUEL VERTICAL - SEISMIC ANCHORAGE (ASCE 7-16/IBC 2000)

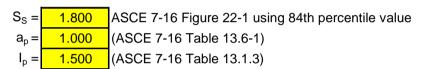
### **Slab on Grade Applications Only**

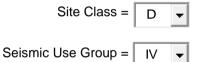
### **Equipment Parameters:**





#### Seismic Parameters:





### Seismic Force:

Project: XXX page: 2 of 2

Date: 6/23/2020 Engineer: XXX

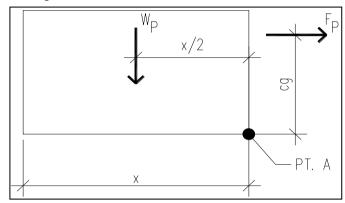
# RBI TORUS 1250 INDOOR DUAL FUEL VERTICAL - SEISMIC ANCHORAGE (ASCE 7-16/IBC 2000)

## Design Anchorage Force:

Horizontal Shear Force Per Anchor:

$$R_H = F_p/4 =$$
 138.9 LBS.

# Overturning Resistance About Point A:



x = 61.84375 in. x = lesser of L or h

$$M_{OT} = F_p^* cg =$$
 **15278.7** LBS.-FT.

$$M_{RES} = W_p^* x/2 = 30814.6$$
 LBS.-FT. OK, No Uplift

Vertical Acceleration: assume  $\rho = 1.0$ 

$$Ev = \rho^* Fp + 0.2^* S_{DS}^* W =$$
 385.8 LBS. (IBC Eqn. 1617.1.1)

$$R_{VNETUP} = (M_{OT}/(2*x))-(W_p/4)+(Ev/4) =$$
 LBS. No Uplfit

### Force Summary Per Corner:

Component Anchorage:

$$R_{HNET} =$$
 **138.9** LBS.  $R_{VNETUP} =$  **0.0** LBS.

### Anchors Embedded in Concrete or CMU:

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