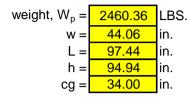
Project: XXX page: 1 of 2

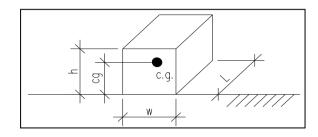
Date: 6/23/2020 Engineer: XXX

# RBI TORUS 4000 INDOOR VERTICAL - SEISMIC ANCHORAGE (ASCE 7-16/IBC 2000)

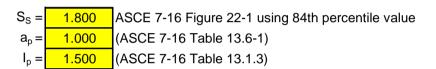
#### **Slab on Grade Applications Only**

#### **Equipment Parameters:**





#### Seismic Parameters:





Seismic Design Category = D

### Seismic Force:

Project: XXX page: 2 of 2

Date: 6/23/2020 Engineer: XXX

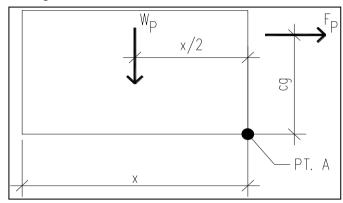
# RBI TORUS 4000 INDOOR VERTICAL - SEISMIC ANCHORAGE (ASCE 7-16/IBC 2000)

### Design Anchorage Force:

Horizontal Shear Force Per Anchor:

$$R_H = F_p/4 = 342.9$$
 LBS.

# Overturning Resistance About Point A:



$$x = 94.9375$$
 in.  $x = lesser of L or h$ 

$$M_{OT} = F_p^* cg =$$
 **46638.0** LBS.-FT.

$$M_{RES} = W_p^* x/2 = 116790.2$$
 LBS.-FT. OK, No Uplift

Vertical Acceleration: assume  $\rho = 1.0$ 

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

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

# Force Summary Per Corner:

Component Anchorage:

$$R_{HNET} =$$
 342.9 LBS.  $R_{VNETUP} =$  0.0 LBS.

#### Anchors Embedded in Concrete or CMU:

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