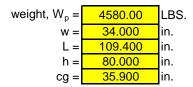
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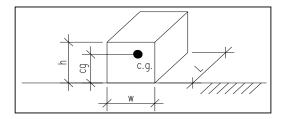
Date: 8/1/2016 Engineer: XXX

RBI FLEXCORE 4000 BOILER SEISMIC ANCHORAGE (ASCE 7-10)

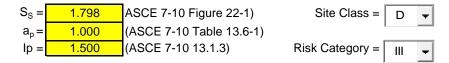
Slab on Grade Applications Only

Equipment Parameters:





Seismic Parameters:



Seismic Design Category = **D**

Seismic Force:

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Date: 8/1/2016 Engineer: XXX

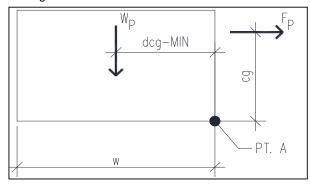
RBI FLEXCORE 4000 BOILER SEISMIC ANCHORAGE (ASCE 7-10)

Design Anchorage Force:

Horizontal Shear Force Per Anchor:

$$R_H = F_p/4 = 617.6$$
 LBS.

Overturning Resistance About Point A:



 $x = \boxed{\begin{array}{c} 34.00 \\ \text{in.} \end{array}} \text{in.}$ x = lesser of L or W $\text{dcg - Min=} \qquad \textbf{16.4} \qquad \text{in.}$

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$$M_{OT} = F_p * cg =$$
 7390.8 LBS.-FT.

$$M_{RES} = W_p^* dcg - MIN =$$
 3129.7 LBS.-FT. Uplift

Vertical Acceleration: assume $\rho = 1.0$

Ev =
$$\rho^*$$
Fp + 0.2*S_{DS}*W = **1715.6** LBS. (ASCE Section 13.3.1)

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

Force Summary Per Corner:

Component Anchorage:

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

Anchors Embedded in Concrete or CMU:

$$1.3*R_p*R_{HNET} =$$
 2007.2 LBS.
 $1.3*R_p*R_{VNETUP} =$ **0.0** LBS.