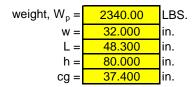
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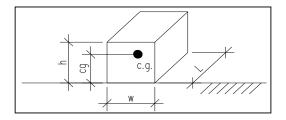
Date: 8/1/2016 Engineer: XXX

RBI FLEXCORE 2500 BOILER SEISMIC ANCHORAGE (ASCE 7-10)

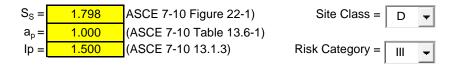
Slab on Grade Applications Only

Equipment Parameters:





Seismic Parameters:



Seismic Design Category = **D**

Seismic Force:

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Date: 8/1/2016 Engineer: XXX

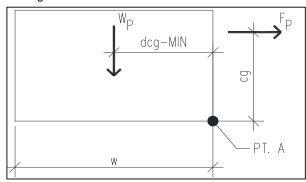
RBI FLEXCORE 2500 BOILER SEISMIC ANCHORAGE (ASCE 7-10)

Design Anchorage Force:

Horizontal Shear Force Per Anchor:

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

Overturning Resistance About Point A:



 $x = \boxed{\begin{array}{c} 32.00 \\ \text{in.} \end{array}} \text{in.}$ x = lesser of L or W $\text{dcg - Min=} \qquad \textbf{14.9} \qquad \text{in.}$

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$$M_{OT} = F_p^* cg =$$
 3933.8 LBS.-FT.

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

Vertical Acceleration: assume $\rho = 1.0$

Ev =
$$\rho^* Fp + 0.2^* S_{DS}^* W = 876.5$$
 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:

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

Anchors Embedded in Concrete or CMU:

$$1.3*R_p*R_{HNET} =$$
 1025.5 LBS.
 $1.3*R_p*R_{VNETUP} =$ **0.0** LBS.