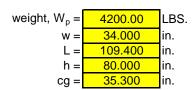
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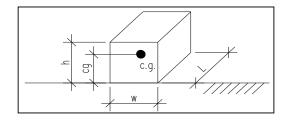
Date: 8/1/2016 Engineer: XXX

RBI FLEXCORE 4500 BOILER SEISMIC ANCHORAGE (ASCE 7-10)

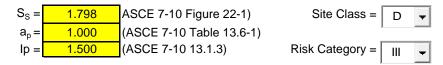
Slab on Grade Applications Only

Equipment Parameters:





Seismic Parameters:



$R_p =$	2.500	(Default value for Anchorage per ASCE 7-10 Table 13.6-1)
F _a =	1.000	(ASCE 7-10 Table 11.4-1)
$S_{MS} = F_a * S_s =$	1.798	(ASCE 7-10 Eqn. 11.4-1)
$S_{DS} = 2/3*S_{MS} =$	1.199	(ASCE 7-10 Eqn. 11.4-3)

Seismic Design Category = D

Seismic Force:

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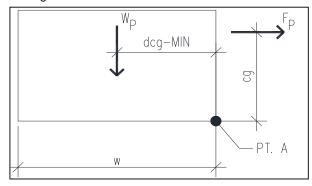
RBI FLEXCORE 4500 BOILER SEISMIC ANCHORAGE (ASCE 7-10)

Design Anchorage Force:

Horizontal Shear Force Per Anchor:

$$R_H = F_p/4 =$$
 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 $\text{dcg - Min} = \boxed{\begin{array}{c} 16.4 \\ \text{in.} \end{array}}$

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$$M_{OT} = F_p^* cg = 6664.3$$
 LBS.-FT.

$$M_{RES} = W_p^* dcg - MIN =$$
 2870.0 LBS.-FT. **Uplift**

Vertical Acceleration: assume $\rho = 1.0$

Ev =
$$\rho^*$$
Fp + 0.2*S_{DS}*W = **1573.3** 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:

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

Anchors Embedded in Concrete or CMU:

$$1.3*R_p*R_{HNET} =$$
 1840.7 LBS.
 $1.3*R_p*R_{VNETUP} =$ **0.0** LBS.