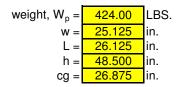
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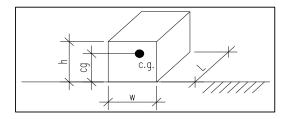
Date: ####### Engineer: XXX

FUTERA III 500 BOILER SEISMIC ANCHORAGE (ASCE 7-05)

Slab on Grade Applications Only

Equipment Parameters:





Seismic Parameters:



Seismic Design Category = **D**

Seismic Force:

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Date: ####### Engineer: XXX

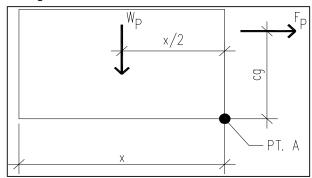
FUTERA III 500 BOILER SEISMIC ANCHORAGE (ASCE 7-05)

Design Anchorage Force:

Horizontal Shear Force Per Anchor:

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

Overturning Resistance About Point A:



$$x = 25.13$$
 in. $x = lesser of L or W$

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page:

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

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

Vertical Acceleration: assume $\rho = 1.0$

Ev =
$$\rho^* Fp + 0.2^* S_{DS}^* W =$$
 139.8 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:

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

Anchors Embedded in Concrete or CMU:

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