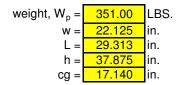
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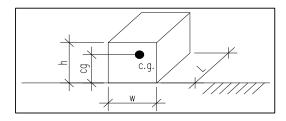
Date: 5/18/2011 Engineer: XXX

# **DOMINATOR 300 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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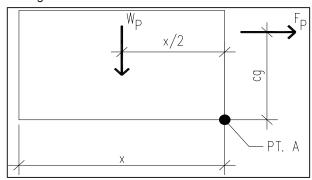
## **DOMINATOR 300 BOILER SEISMIC ANCHORAGE (ASCE 7-05)**

## **Design Anchorage Force:**

Horizontal Shear Force Per Anchor:

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

## Overturning Resistance About Point A:



$$x = 22.13$$
 in.  $x = lesser of L or W$ 

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page:

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

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

Vertical Acceleration: assume  $\rho = 1.0$ 

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

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

## Force Summary Per Corner:

#### Component Anchorage:

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

### Anchors Embedded in Concrete or CMU:

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