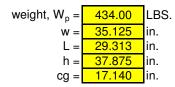
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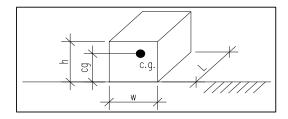
Date: 5/18/2011 Engineer: XXX

## **DOMINATOR 600 BOILER SEISMIC ANCHORAGE (ASCE 7-05)**

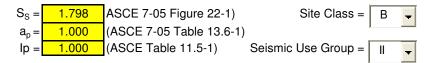
## **Slab on Grade Applications Only**

## **Equipment Parameters:**





## Seismic Parameters:



$$\begin{array}{c} R_p = & \textbf{2.500} \\ F_a = & \textbf{1.000} \end{array} \text{ (Default value for Anchorage per ASCE 7-05 Table 13.6-1)} \\ S_{MS} = F_a {}^*S_s = & \textbf{1.798} \\ S_{DS} = 2/3 {}^*S_{MS} = & \textbf{1.199} \end{array} \text{ (ASCE 7-05 Eqn. 11.4-1)} \\ \text{(ASCE 7-05 Eqn. 11.4-3)} \\ \end{array}$$

Seismic Design Category = **D** 

## Seismic Force:

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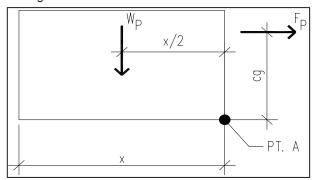
# **DOMINATOR 600 BOILER SEISMIC ANCHORAGE (ASCE 7-05)**

## **Design Anchorage Force:**

Horizontal Shear Force Per Anchor:

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

## Overturning Resistance About Point A:



$$x = 29.31$$
 in.  $x = lesser of L or W$ 

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page:

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

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

Vertical Acceleration: assume  $\rho = 1.0$ 

Ev = 
$$\rho^* Fp + 0.2^* S_{DS}^* W =$$
 **143.1** 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:

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

## Anchors Embedded in Concrete or CMU:

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