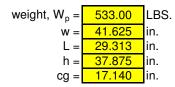
Project: LIVERMORE, CA 94550 page: 1 of 2

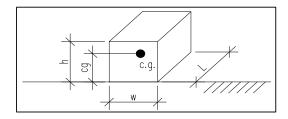
Date: 5/18/2011 Engineer: XXX

DOMINATOR 750 BOILER SEISMIC ANCHORAGE (ASCE 7-05)

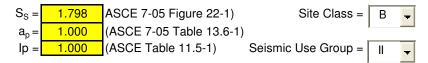
Slab on Grade Applications Only

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:

Project: LIVERMORE, CA 94550

Date: 5/18/2011 Engineer: XXX

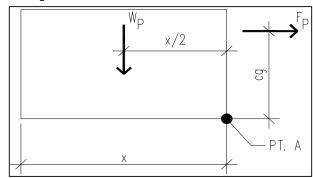
DOMINATOR 750 BOILER SEISMIC ANCHORAGE (ASCE 7-05)

Design Anchorage Force:

Horizontal Shear Force Per Anchor:

$$R_H = F_p/4 = 47.9$$
 LBS.

Overturning Resistance About Point A:



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

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page:

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

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

Vertical Acceleration: assume $\rho = 1.0$

Ev =
$$\rho^* Fp + 0.2^* S_{DS}^* W =$$
 175.7 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:

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

Anchors Embedded in Concrete or CMU:

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