Project: ENCORE Date: 09/06/22 Engineer: BMH	page: 1 of 2
RBI ENCORE RB0500 INDOOR DUAL FUEL UNIT - SEISMIC ANCHORAGE (ASCE 7-16/IBC 2000) Slab on Grade Applications Only	
Equipment Parameters:	
weight, $W_p = 549.88$ LBS. w = 26.97 in. L = 39.38 in. h = 66.09 in. cg = 30.95 in.	C.g. W
Seismic Parameters:	
$S_s = 1.800$ ASCE 7-16 Figure 22-1 using 84th percentile value $a_p = 1.000$ (ASCE 7-16 Table 13.6-1) $I_p = 1.500$ (ASCE 7-16 Table 13.1.3)	Site Class = D - Seismic Use Group = N -
$ \begin{array}{c c} R_{p} = & \textbf{1.500} \\ F_{a} = & \textbf{1.032} \\ S_{MS} = F_{a}^{*}S_{s} = & \textbf{1.858} \\ S_{DS} = 2/3^{*}S_{MS} = & \textbf{1.239} \end{array} \begin{array}{l} (\text{Default value for Anchorage per ASCE 7-16 13.6-1}) \\ (\text{ASCE 7-16 Table 11.4-1}) \\ (\text{ASCE 7-16 Eqn. 11.4-1}) \\ (\text{ASCE 7-16 Eqn. 11.4-3}) \end{array} $	
Seismic Design Category = D	
Seismic Force:	
$F_{p} = (0.4*a_{p}*S_{DS}*W_{p})/(R_{p}/I_{p}) =$ $Upper Limit: F_{pMAX} = 1.6*S_{DS}*I_{p}*W_{p} =$ $Lower Bound: F_{pMIN} = 0.3*S_{DS}*I_{p}*W_{p} =$	272.5LBS. (ASCE 7-16 Eqn. 13.3-1)1635.0LBS. (ASCE 7-16 Eqn. 13.3-2)306.6LBS. (ASCE 7-16 Eqn. 13.3-3)

F<sub>p, DESIGN</sub> = **306.6** LBS.

## **RBI ENCORE RB0500 INDOOR DUAL FUEL UNIT - SEISMIC ANCHORAGE (ASCE 7-16/IBC 2000)**

## Design Anchorage Force:

Horizontal Shear Force Per Anchor:

 $R_{\rm H} = F_{\rm p}/4 =$  **76.6** LBS.

Overturning Resistance About Point A:

