Project: ENCORE Date: 09/06/22 Engineer: BMH RBI ENCORE RB0725 INDOOR UNIT - SEISMIC ANCHORAGE (ASCE 7	page: 1 of 2
Slab on Grade Applications Only	
Equipment Parameters:	
weight, $W_p = \begin{array}{c} 600.64 \\ W = \begin{array}{c} 27.94 \\ 10.16 \\ L = \begin{array}{c} 39.31 \\ 10.16 \\ 10.16 \\ 10.16 \\ cg = \begin{array}{c} 30.56 \\ 30.56 \end{array}$ in.	C.g.
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 -
$\begin{array}{c c} R_{p} = & \textbf{1.500} \\ F_{a} = & \textbf{1.032} \\ S_{MS} = F_{a}{}^{*}S_{s} = & \textbf{1.858} \\ S_{DS} = 2/3{}^{*}S_{MS} = & \textbf{1.239} \end{array} (Default value for Anchorage per ASCE 7-16 13.6-1) \\ (ASCE 7-16 Table 11.4-1) \\ (ASCE 7-16 Eqn. 11.4-1) \\ (ASCE 7-16 Eqn. 11.4-3) \end{array}$	
Seismic Design Category = D	
Seismic Force:	
$F_{p} = (0.4*a_{p}*S_{DS}*W_{p})/(R_{p}/I_{p}) = \begin{bmatrix} \\ Upper Limit: F_{pMAX} = 1.6*S_{DS}*I_{p}*W_{p} = \\ Lower Bound: F_{pMIN} = 0.3*S_{DS}*I_{p}*W_{p} = \end{bmatrix}$ $F_{p, DESIGN} = \begin{bmatrix} \\ \end{bmatrix}$	297.7 LBS. (ASCE 7-16 Eqn. 13.3-1) 1786.0 LBS. (ASCE 7-16 Eqn. 13.3-2) 334.9 LBS. (ASCE 7-16 Eqn. 13.3-3)

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RBI ENCORE RB0725 INDOOR UNIT - SEISMIC ANCHORAGE (ASCE 7-16/IBC 2000)

Design Anchorage Force:

Horizontal Shear Force Per Anchor:

 $R_{\rm H} = F_{\rm p}/4 =$ **83.7** LBS.

Overturning Resistance About Point A:

