SEISMIC ANCHORAGE

COMPACT WATER HEATER - PK06D

WEIGHT = 800 LBS
HORIZONTAL FORCE (E_h) = 0.90W = 720 LBS
VERTICAL FORCE (E_v) = 0.40W = 320 LBS

BOLT FORCES:

TENSION (T)

\[ T_{\text{MAXIMUM}} = \left( \frac{720 \#(28^\circ)}{2 \text{bolts}(15^\circ)} \times (0.3) \right) + \left( \frac{720 \#(28^\circ)}{2 \text{bolts}(15^\circ)} \right) - \left( \frac{800 \#(0.9) - 320 \#}{4 \text{bolts}} \right) = 774 \text{ LBS/BOLT (MAX)} \]

SHEAR (V)

\[ V_{\text{MAXIMUM}} = \frac{720 \#}{4 \text{bolts}} = 180 \text{ LBS/BOLT (MAX)} \]

NOTE:

PROVIDE FLOOR STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.
BY ENGINEER OF RECORD FOR THE BUILDING.
WEIGHT = 800 LBS
HORIZONTAL FORCE (Eh) = 144W = 1152 LBS
VERTICAL FORCE (Ev) = 0.40Wb = 320 LBS

BOLT FORCES:

TENSION (T)

\[
T_{\text{MAX}} = \frac{1152\times(28\text{ in})}{2\times(15\text{ in})} \times (0.3) + \frac{1152\times(28\text{ in})}{2\times(15\text{ in})} - \frac{800\times(0.3) - 320\times4\text{ lbs}}{4\text{ bolts}} = 1295 \text{ LBS/BOLT (MAX)}
\]

SHEAR (V)

\[
V_{\text{MAX}} = \frac{1152\#}{4\text{ bolts}} = 288 \text{ LBS/BOLT (MAX)}
\]

NOTE:
PROVIDE FLOOR STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.
(BY ENGINEER OF RECORD FOR THE BUILDING)