SEISMIC ANCHORAGE

COUNTERTOP MOUNTED

LOADS: PER 2001 CALIFORNIA BUILDING CODE - SECTION 1632A (WORKING LOADS, NOT ULTIMATE)

WEIGHT = 350 LBS
HORIZONTAL FORCE ($V_h$) = 0.94W = 329 LBS
VERTICAL FORCE ($V_v$) = 0.33($V_h$) = 110 LBS

BOLT FORCES:
- TENSION (T)
  \[ T_{\text{side}} = \frac{329\#(29.51") - (350\# - 110\#)10.63"}{2\text{bolts}(26.63")} = 152 \text{ LBS/BOLT} \]
  \[ T_{\text{front}} = \frac{329\#(29.51") - (350\# - 110\#)6.05"}{2\text{bolts}(11.31")} = 239 \text{ LBS/BOLT} \]
  \[ T = 239\# + 152\# (0.3) = 285 \text{ LBS/BOLT (MAX)} \]

- SHEAR (V)
  \[ V = \frac{329\#(11.26")}{11.3(2)} = 101 \text{ LBS/BOLT (MAX)} \]

NOTE:
COUNTERTOP STRUCTURE SHALL BE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN BY OTHERS.