# EASE

### **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING**

www.EquipmentAnchorage.com

### FOLLETT CORPORATION

## MEDICAL GRADE REFRIGERATOR REF 1

JOB NO. 11-1420

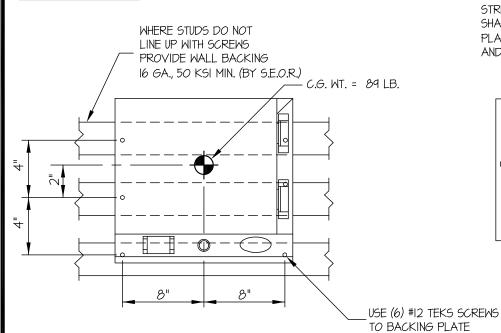
DATE

4/23/14

1

1 SHEETS

SEISMIC ANCHORAGE



FRONT ELEVATION

STRUCTURAL ENGINEER OF RECORD
SHALL DESIGN THE BACKING
PLATE (16 GA., 50 KSI MIN.)
AND THE WALL STRUCTURE

5/8" THK.
WALL BOARD

#### SIDE ELEVATION

Tu = 172 LB/SCREW (MAX)

 $V_u = 48 LB/SCREW (MAX)$ 

LOADS: PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10. (STRENGTH DESIGN IS USED) (SDs = 2.5, 2p = 1.0, 2p = 1.5, 2p = 2.5, 2p = 1.0, 2p =

WEIGHT = 89 LB
HORIZONTAL FORCE (E<sub>h</sub>) = 1.80 W<sub>p</sub> = 160 LB
VERTICAL FORCE (E<sub>v</sub>) = 0.50 W<sub>p</sub> = 45 LB
SCREW FORCES:

#12 TEK SCREWS 16 GAGE, 50 KSI pt= 328 LB/SCREW (TENSION) pv= 288 LB/SCREW (SHEAR)

TENSION (T)

$$T_{u \text{ VERTICAL}} = \frac{(1.2(89\#) + 45\#)11''}{2 \text{ screws (8")}} = 105 \text{ LB/SCREW}$$

$$T_{u \text{ PARALLEL}} = \frac{160 \# (11'')}{2 \text{ screws } (16'')} = 55 \text{ LB/SCREW}$$

$$T_{u \text{ PERP.}} = \frac{160\#}{4 \text{ screws}} = 40 \text{ LB/SCREW}$$

$$T_{\text{IIMAX}} = 105\# + (40\#)(0.3) + 55\# = 172 \text{ LB/SCREW (MAX)}$$

SHEAR (V)
$$V_{\text{U MAX}} = \sqrt{\left(\frac{1.2(89\#) + 45\#}{6 \text{ SCREWS}}\right)^2 + \left(\frac{160\#}{4 \text{ SCREW}}\right)^2} = 48 \text{ LB/SCREW (MAX)}$$

NOTE:

STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE RIGID (2p = 1.0) SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.

No. 4197

EXP. 6-30-2014

A 4/23/14

PUCIUS SEE