

## FOLLETT CORPORATION

### REF/FZR 20/25

DES. **J. ROBERSON**

JOB NO. **11-1420**

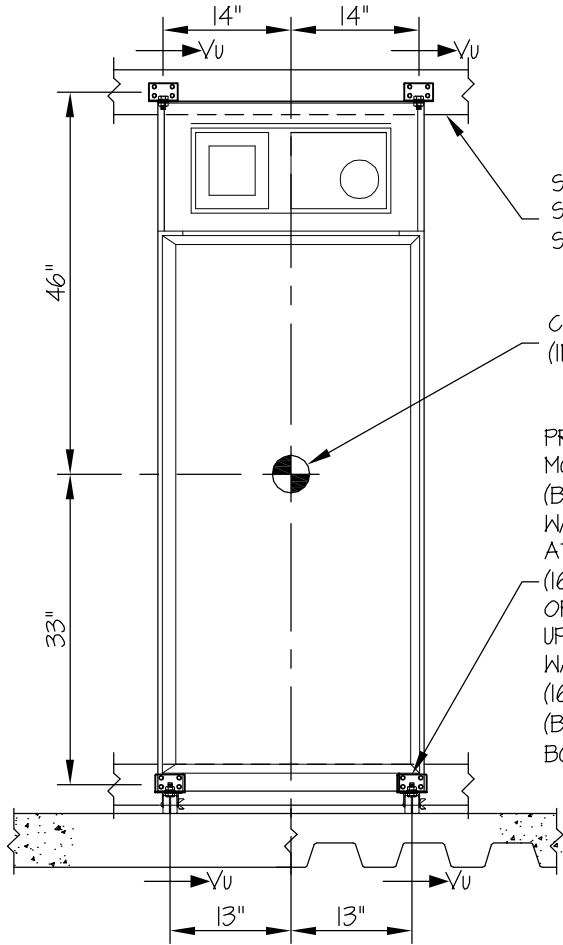
DATE **4/23/14**

SHEET

**1**

OF **1** SHEETS

**SEISMIC ANCHORAGE**



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

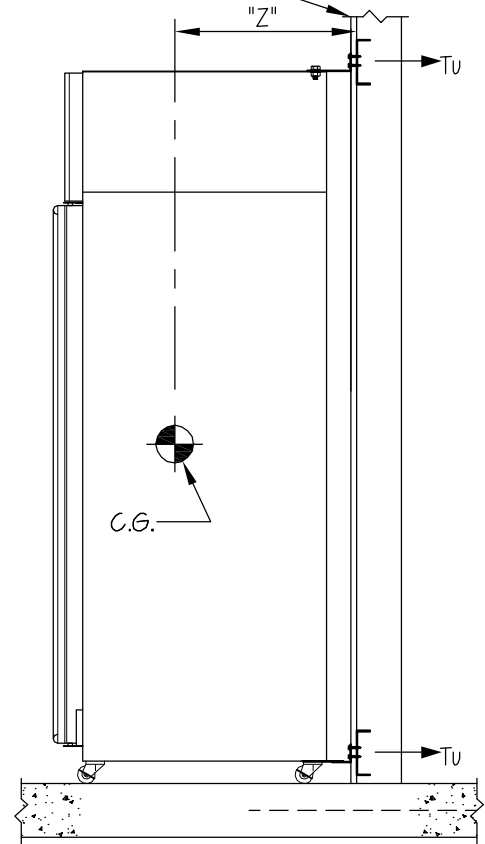
C.G. WT. = (SEE TABLE) (INCLUDES CONTENTS)

PRE-MANUFACTURED MOUNTING BRACKET (BY FOLLETT) W/ 4- #12 TEK SCREWS AT STEEL STUD WALL (16 GA., 50 ksi MIN.) OR WHERE STUDS DO NOT LINE UP WITH SCREWS PROVIDE WALL BACKING (16 GA., 50 ksi MIN.) (BY S.E.O.R.) (2 TOP & 2 BOTTOM)

T<sub>u</sub> = 191 LB/SCREW (MAX)  
V<sub>u</sub> = 111 LB/SCREW (MAX)

**FRONT ELEVATION**

5/8" THK. WALL BOARD  
SLAB ON GRADE/UPPER FLOOR



**SIDE ELEVATION**

LOADS: PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10.

(STRENGTH DESIGN IS USED) (S<sub>ds</sub> = 2.5, a<sub>p</sub> = 1.0, I<sub>p</sub> = 1.5, R<sub>p</sub> = 2.5, z/h ≤ 1)

WEIGHT = 844 LB (INCLUDES CONTENTS)

HORIZONTAL FORCE (E<sub>h</sub>) = 1.80 W<sub>p</sub> = 1519 LB

VERTICAL FORCE (E<sub>v</sub>) = 0.50 W<sub>p</sub> = 422 LB

SCREW FORCES:

TENSION (T)

$$T_{u \text{ PARALLEL}} = \frac{1519 \#(18.6'')(46'')}{26''(79'')(4 \text{ SCREWS})} = 158 \text{ LB/SCREW}$$

$$T_{u \text{ PERP.}} = \frac{1519 \#(46'')}{8 \text{ SCREWS}(79'')} = 111 \text{ LB/SCREW}$$

$$T_{u \text{ MAX}} = 111 \#(0.3) + 158 = 191 \text{ LB/SCREW (MAX)}$$

SHEAR (V)

$$V_{u \text{ MAX}} = \frac{1519 \#(46'')}{8 \text{ SCREWS}(79'')} = 111 \text{ LB/SCREW (MAX)}$$

NOTE:

STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SLAB OR OTHER SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.

#12 TEK SCREWS TO 16 GAGE, 50 KSI

φT = 328 LB/SCREW (TENSION)

φV = 288 LB/SCREW (SHEAR)

| MODEL #     | WEIGHT (lbs.) | "Z" (in.) | T <sub>u</sub> (lbs.) | V <sub>u</sub> (lbs.) |
|-------------|---------------|-----------|-----------------------|-----------------------|
| REF/FZR20   | 702           | 15.7      | 139                   | 92                    |
| * REF/FZR25 | 844           | 18.6      | 191                   | 111                   |

\* THIS MODEL USED IN CALCULATIONS.

