

MIDMARK CORPORATION

TALL CABINETS

DES. **R. LA BRIE**

EASE JOB NO. **11-0927**

DATE **10/13/09**

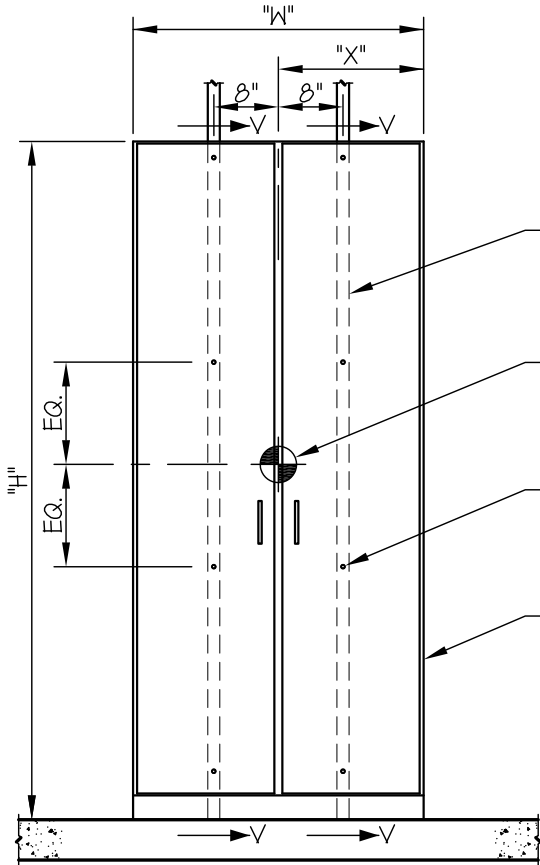
SHEET

1

OF **2** SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED



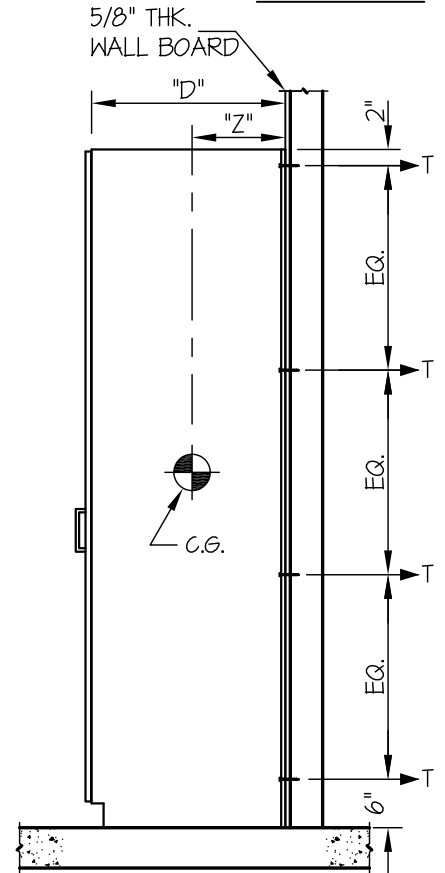
FRONT ELEVATION

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

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

USE 8- 1/4"φ TEK SCREWS TO WALL STRUCTURE (16 GA., 50 KSI (MIN))

UNITS BACKING IS 20 GAGE (33 KSI)



SIDE ELEVATION

NOTES:

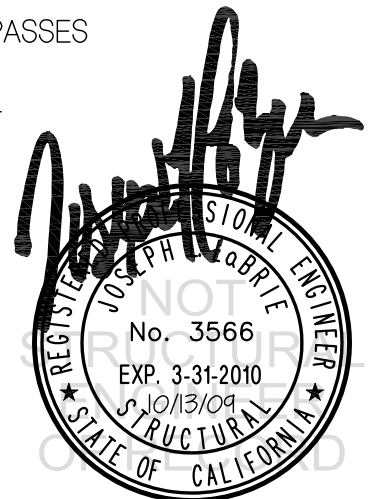
1. FORCES ARE DETERMINED PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. ALLOWABLE STRESS DESIGN IS USED.

HORIZONTAL FORCE (E_h) = $0.97 W_p (S_{Ds} = 1.93, a_p = 1.0, I_p = 1.5, R_p = 2.5)$

VERTICAL FORCE (E_v) = $0.27 W_p$

2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS CALCULATION ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

3. ARCHITECT OR STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.



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OF **2** SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED

UNIT NAME	MAX WEIGHT (LBS)	W (in.)	H (in.)	D (in.)	X (in.)	Z (in.)	T _{MAX} (LBS/BOLT)	V _{MAX} (LBS/BOLT)
* TP032	1150	48	84	24	24	11.4	171	140
TP003	741	36	69	24	18	11.7	121	90
TZ054	564	30	84	24	15	11.8	98	68

* THIS UNIT IS USED IN THE CALCULATION BELOW.

LOADS:

WEIGHT = 1150 LBS

HORIZONTAL FORCE (E_h) = $0.97 W_p$ = 1116 LBS

VERTICAL FORCE (E_v) = $0.27 W_p$ = 311 LBS

1/4"Ø TEK SCREWS

IN 16 GA, 50 KSI STEEL

$T_{ALLOW.}$ = 260 LBS

$V_{ALLOW.}$ = 612 LBS

SCREW FORCES:

TENSION (T)

$$T_{PARALLEL} = \frac{1116\#(11.4")}{4 \text{ SCREWS } (32")} = 99 \text{ LBS/SCREW}$$

$$T_{PERP.} = \frac{1116\#}{8 \text{ SCREWS}} = 140 \text{ LBS/SCREW}$$

$$T_{MAX.} = \sqrt{99^2 + 140^2} = 171 \text{ LBS/SCREW (MAX)}$$

SHEAR (V)

$$V_{MAX.} = \frac{1116\#}{8 \text{ SCREWS}} = 140 \text{ LBS/SCREW (MAX)}$$