



**EASE**  
**EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING**  
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**Office of Statewide Health Planning and Development**  
**ANCHORAGE PRE-APPROVAL**

**OPA-2207-07**

Equipment Manufacturer: MIDMARK CORPORATION

Equipment Type: Tall Cabinets

**GENERAL NOTES**

1. FORCES PER ASCE 7-05 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE  $S_{ds} = 1.93$ ,  $a_p = 1.0$ ,  $I_p = 1.5$  &  $R_p = 2.5$
2. THIS PRE-APPROVAL CONFORMS TO THE 2007 CALIFORNIA BUILDING CODE.
3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA.
4. ALL ANCHOR FORCES SHOWN ON THE DRAWINGS ARE WORKING LOADS (AS OPPOSED TO STRENGTH LEVEL LOADS) AND MAY BE USED FOR ALLOWABLE STRESS DESIGN.
5. SHEET METAL SCREWS SHALL BE TEKS SCREWS BY ITW BUILDEX (ICC ESR-1976).
6. PER CAN 2-1708A.5, THIS UNIT DOES NOT REQUIRE "SPECIAL SEISMIC CERTIFICATION".

**RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD**

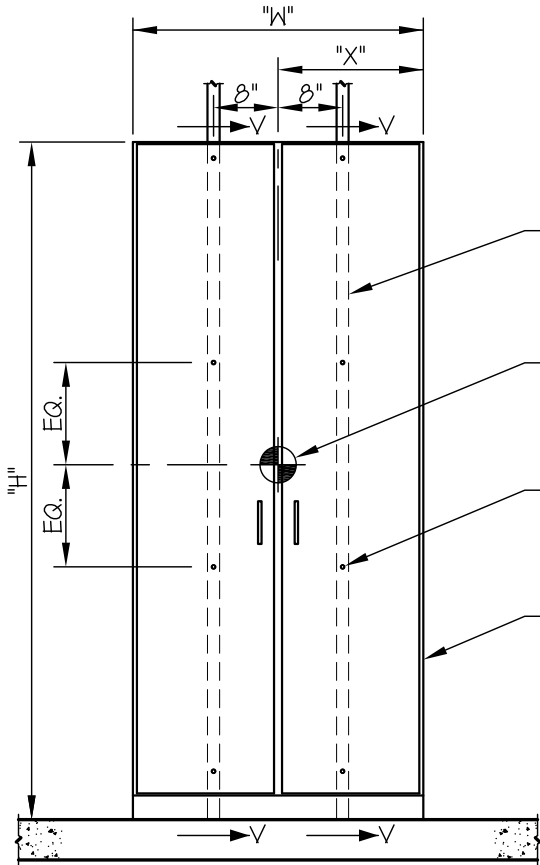
7. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS. THE SEOR SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS) WHICH SUPPORT THE UNITS FOR THE LOADS IMPOSED ON THEM BY THE UNITS AS WELL AS ALL OTHER LOADS.
8. PROVIDE ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
9. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2007 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL. VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.



<b>EQUIPMENT ANCHORAGE &amp; SEISMIC ENGINEERING</b> www.equipmentanchorage.com	<b>DES. R. LA BRIE</b>	<b>SHEET</b> <b>2</b>
	<b>EASE JOB NO. 11-0927</b>	<b>OF</b> <b>3 SHEETS</b>
	<b>DATE 10/13/09</b>	
<b>MIDMARK CORPORATION</b>		
<b>TALL CABINETS</b>		

SEISMIC ANCHORAGE

WALL MOUNTED



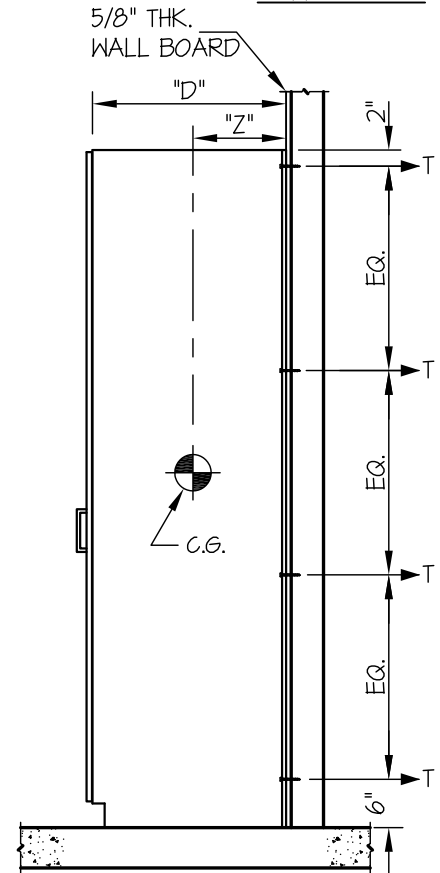
**FRONT ELEVATION**

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. ANCHORAGE DESIGN 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 PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
3. ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED FOR SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
4. SEE GENERAL NOTES; SHEET 1.



<b>A P P R O V E D</b>	
Fixed Equipment Anchorage	
Office of Statewide Health Planning and Development	
	<b>OPA-2207-07</b>
Pre-approval Program Manager: Anthony R. Pike (916) 440-8470	
Reviewed By: Jerry Yee	10/13/09

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<b>MIDMARK CORPORATION</b>	DES. <b>R. LA BRIE</b>	SHEET <b>3</b>
<b>TALL CABINETS</b>	EASE JOB NO. <b>11-0927</b>	OF <b>3</b> SHEETS
	DATE <b>10/13/09</b>	

SEISMIC ANCHORAGE

WALL MOUNTED

UNIT NAME	MAX WEIGHT (LBS)	W (in.)	H (in.)	D (in.)	X (in.)	Z (in.)	T <sub>MAX</sub> (LBS/BOLT)	V <sub>MAX</sub> (LBS/BOLT)
TP032	1150	48	84	24	24	114	171	140
TP003	741	36	69	24	18	117	121	90
TZ054	564	30	84	24	15	118	98	68



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