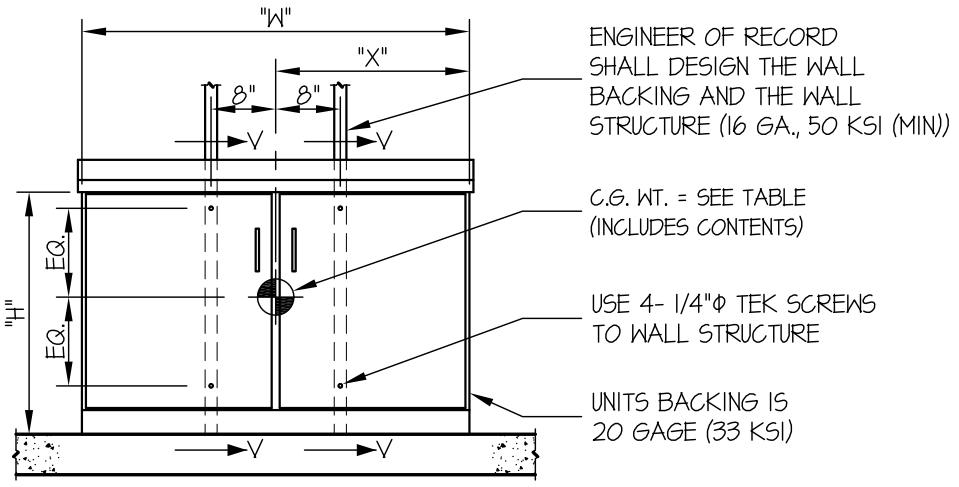
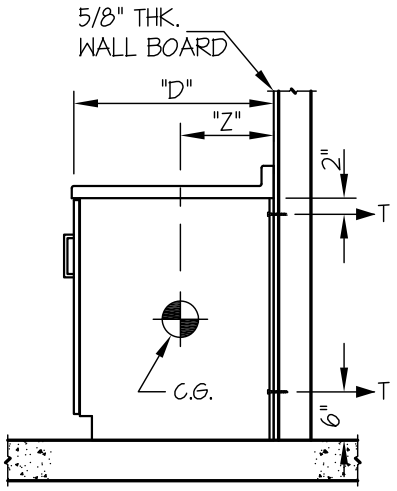
EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com		
MIDMARK CORPORATION	DES. R. LA BRIE	SHEET 1
	EASE JOB NO. 11-0927	
BASE CABINETS	DATE 10/13/09	OF 2 SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED



FRONT ELEVATION



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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BASE CABINETS

DES. R. LA BRIE
EASE JOB NO. 11-0927
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SHEET 2 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)
*	BC010L	489	36	36	24	18	14	175	119
	BC025L	367	36	30	24	18	15.1	136	89
	BF001	444	36	36	24	18	12.6	149	108
	BF015	374	36	30	24	18	12.7	127	91
	BP033	480	48	36	24	24	12.7	148	117
	BP082	395	48	30	24	24	12.7	122	96
	BS045	234	30	36	24	15	13	86	57
	BS021	203	36	30	24	18	11.7	66	49
	BZ020	382	48	36	24	27	12.4	114	93

* THIS UNIT IS USED IN THE CALCULATION BELOW.

LOADS:

WEIGHT = 489 LBS
HORIZONTAL FORCE (E_h) = 0.97 W_p = 474 LBS
VERTICAL FORCE (E_v) = 0.27 W_p = 132 LBS

SCREW FORCES:

TENSION (T)

$$T_{PARALLEL} = \frac{474\#(14'')}{2 \text{ SCREWS } (26'')} = 128 \text{ LBS/SCREW}$$

$$T_{PERP.} = \frac{474\#}{4 \text{ SCREWS}} = 119 \text{ LBS/SCREW}$$

$$T_{MAX.} = \sqrt{128^2 + 119^2} = 175 \text{ LBS/SCREW (MAX)}$$

SHEAR (V)

$$V_{MAX.} = \frac{474\#}{4 \text{ SCREWS}} = 119 \text{ LBS/SCREW (MAX)}$$

1/4"ø TEK SCREWS
IN 16 GA., 50 KSI STEEL

$T_{ALLOW.}$ = 260 LBS
$V_{ALLOW.}$ = 612 LBS