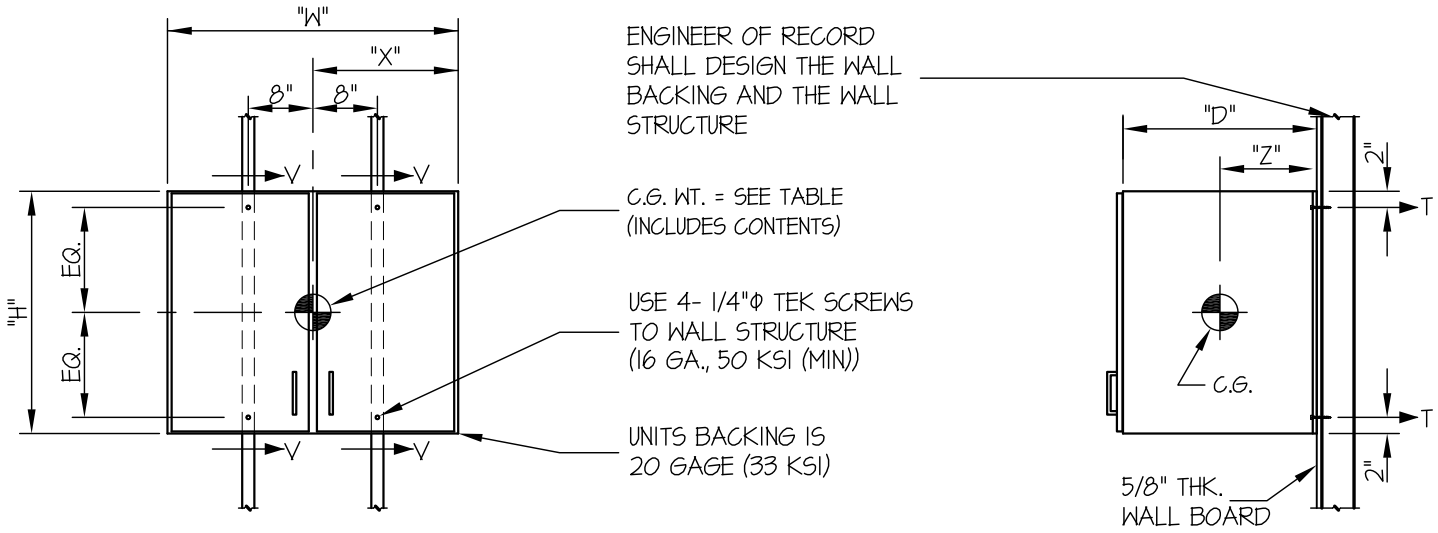
EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.equipmentanchorage.com		
MIDMARK CORPORATON	DES. R. LA BRIE	SHEET 1
	EASE JOB NO. 11-0927	
WALL CABINETS	DATE 3/26/09	OF 2 SHEETS

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.

REGISTERED PROFESSIONAL ENGINEER
JOSEPH R. LA BRIE
No. 3566
EXP. 3-31-2010
3/26/09
STRUCTURAL
STATE OF CALIFORNIA

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING
www.equipmentanchorage.com

MIDMARK CORPORATON

WALL CABINETS

DES. R. LA BRIE
EASE JOB NO. 11-0927
DATE 3/26/09

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)
*	OH062	638	48	36	14	24	6.4	248	155
	OH042	486	48	30	14	24	6.5	204	118
	OH003	323	48	18	14	24	6.5	179	78
	ON010L	264	24	30	14	12	6.4	117	64
	ON001L	185	24	24	14	12	6.6	93	44

* THIS UNIT IS USED IN THE CALCULATION BELOW.

LOADS:

WEIGHT = 638 LBS
HORIZONTAL FORCE (E_h) = 0.97 W_p = 619 LBS
VERTICAL FORCE (E_v) = 0.27 W_p = 172 LBS

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

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

SCREW FORCES:

TENSION (T)

$$T_{VERTICAL} = \frac{(638\# + 172)6.4''}{2 \text{ SCREWS } (32'')} = 81 \text{ LBS/SCREW}$$

$$T_{PARALLEL} = \frac{619\#(6.4'')}{2 \text{ SCREWS } (32'')} = 62 \text{ LBS/SCREW}$$

$$T_{PERP.} = \frac{619\#}{4 \text{ SCREWS}} = 155 \text{ LBS/SCREW}$$

$$T_{MAX.} = 81\# + \sqrt{62^2 + 155^2} = 248 \text{ LBS/SCREW (MAX)}$$

SHEAR (V)

$$V_{MAX.} = \frac{619\#}{4 \text{ SCREWS}} = 155 \text{ LBS/SCREW (MAX)}$$