



EASE
EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

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Office of Statewide Health Planning and Development
ANCHORAGE PRE-APPROVAL

OPA-0838-10

THIS PRE- APPROVAL CONFORMS TO THE 2010 CALIFORNIA BUILDING CODE

Equipment Manufacturer: Chatsworth Products, Inc.

Equipment Type: Fixed Racks

GENERAL NOTES

1. FORCES PER ASCE 7-05 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE $S_Ds = 2.0$, $a_p = 2.5$, $I_p = 1.5$ & $R_p = 6.0$, $z/h \leq 1.0$
2. THIS PRE-APPROVAL CONFORMS TO THE 2010 CALIFORNIA BUILDING CODE.
3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY HEIGHT AND AT ANY LOCATION IN THE STATE OF CALIFORNIA, WHERE S_Ds IS NOT GREATER THAN 2.0.
4. ALL ANCHOR FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
5. SHEET METAL SCREWS SHALL BE TEKS SCREWS BY ITW BUILDEX (ICC ESR-1976).
6. THIS PRE-APPROVAL COVERS ONLY THE ANCHORAGE OF THE UNIT TO THE HOSPITAL BUILDING'S STRUCTURE

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING

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 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 2010 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.
10. VERIFY THAT THE COMBINATION OF S_Ds & z/h RESULT IN SEISMIC FORCES (E_h , E_v) THAT ARE NOT GREATER THAN THE VALUES ON THE DETAILS.



CHATSWORTH PRODUCTS, INC.

FIXED RACKS

DES. **J. ROBERSON**

JOB NO. **11-1131**

DATE **7/25/12**

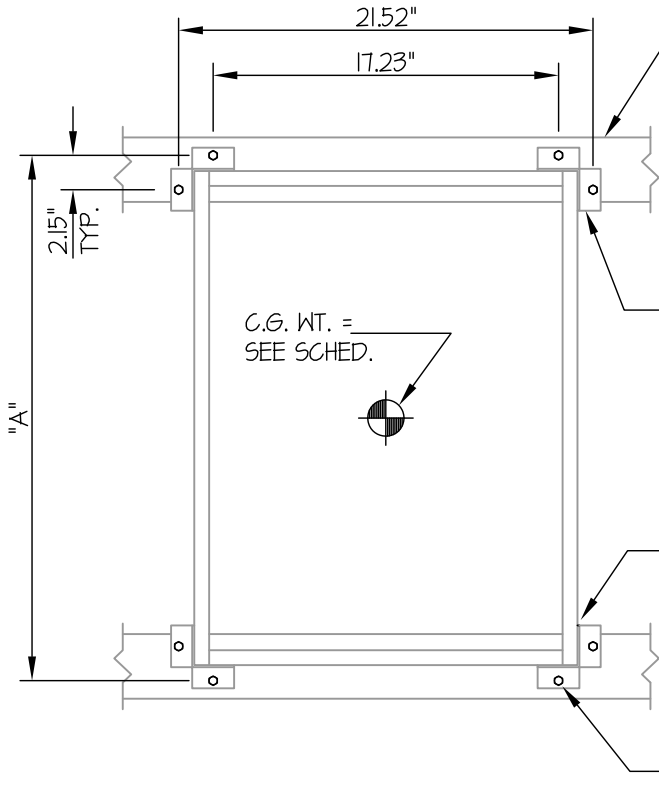
SHEET

2

OF **3** SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED



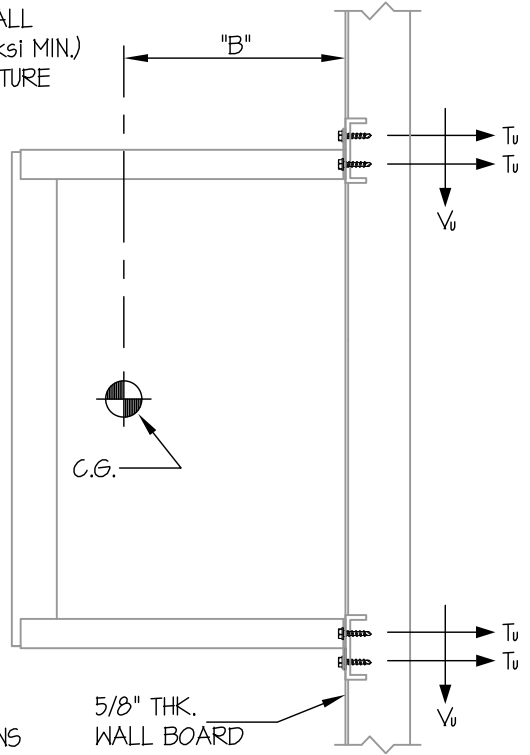
FRONT ELEVATION

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

PRE-MANUFACTURED WALL BRACKETS ARE SHOP ATTACHED TO VERTICAL AND HORIZONTAL ELEMENTS. 14 GA., 50 ksi. (MIN.) (BY CHATSWORTH PRODUCTS) TYP.

BACKING OF THE UNIT MUST BE AT LEAST 16 GAUGE, 50 KSI

USE 8- #12 TEK SCREWS TO BACKING PLATE



STEEL STUD WALL SECTION

NOTES:

SEE PAGE 3 OF 3 FOR WEIGHT, AND DIMENSIONS

1. ANCHORAGE DESIGN PER 2010 CALIFORNIA BUILDING CODE AND ASCE 7-05. STRENGTH DESIGN IS USED.

$T_u = 85 \text{ LB/BOLT (MAX)}$
 $V_u = 84 \text{ LB/BOLT (MAX)}$

HORIZONTAL FORCE (E_h) = $1.50 W_p$ ($S_{ds} = 2.00$, $a_p = 2.5$, $I_p = 1.5$, $R_p = 6.0$, $z/h \leq 1.0$)

VERTICAL FORCE (E_v) = $0.40 W_p$

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

3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.

4. SEE GENERAL NOTES: SHEET 1.



A P P R O V E D
 Fixed Equipment Anchorage
 Office of Statewide Health Planning and Development

OPA-0838-10

Pre-approval Program Manager:
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 (916) 440-8470

Reviewed By: Jeffrey Y. Kikumoto

7/25/12

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SHEET

3

OF **3** SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED

MODEL NO.	"A" (in)	"B" (in)	WEIGHT (lbs)
11960-X06	26.5"	4.5"	210
11960-X12	26.5"	9"	211
11960-X18	26.5"	13.5"	212
11961-X06	40.5"	4.5"	210
11961-X12	40.5"	9"	212
11961-X18	40.5"	13.5"	214
11962-X06	75.5"	4.5"	214
11962-X12	75.5"	9"	215
11962-X18	75.5"	13.5"	218

