

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

allful hub										
APPLICATION FOR HCAI PREAPP	OFFICE USE ONLY APPLICATION #: OPM-0679									
MANUFACTURER'S CERTIFICATION										
HCAI Preapproval of Manufacturer's Certification (OPM)										
Type: X New Renewal/Update										
Manufacturer Information										
Manufacturer: Legrand AV										
Manufacturer's Technical Representative: Michael	Harrell									
Mailing Address: 6436 City West Parkway, Eden P	rairie, MN 55344									
elephone: (612) 202-9154 Email: michael.harrell@legrand.com										
NED	MA									
Product Information	HICAI	P ₂								
Product Name: FCAV1U Monitor Wall Mount	OPM-0679	S								
Product Type: Computer										
Product Model Number: FCAV1U BY	: William Staehlin									
General Description: Wall mount for Video Moniton	TE. 00/15/2022									
PA PA	TE: 00/15/2023	200								
Applicant Information		⟨ `								
Applicant Company Name: EASE LLC.										
Contact Person: Tiffany Tonn	BUILDING									
Mailing Address: 1515 FAIRVIEW AVE, STE 205,	MISSOULA, MT 59801									

"A healthier California where all receive equitable, affordable, and quality health care"

HCAi

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

Telephone: (406) 541-3273

Title: Office Manager

Email: tiffany@easeco.com



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Registered Design Professonal Preparing Engineering Recommendations								
Company Name: EASE LLC								
Name: Jonathan Roberson California License Number: S4197								
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709								
Telephone: (951) 295-1892 Email: jon@EASECo.com								
HCAI Special Seismic Certification Preapproval (OSP)								
Special Seismic Certification is preapproved under OSP OSP Number:								
FOR CODE CO								
Certification Method								
Testing in accordance with:								
Other(s) (Please Specify):								
*Use of criteria other than those adopted by the California Building Standards Code, 2022 (CBSC 2022) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2022 may be used when approved by HCAI prior to testing.								
X Analysis								
Experience Data DATE: 08/15/2023								
Combination of Testing, Analysis, and/or Experience Data (Please Specify):								
HCAI Approval								
Date: 8/15/2023								
Name: William Staehlin Title: Senior Structural Engineer								
Condition of Approval (if applicable):								

"A healthier California where all receive equitable, affordable, and quality health care"

HCAi

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

5877 Pine Ave, Ste. 210 Chino Hills, CA. 91709 Phn: (909) 606-7622

The Department of Health Care Access and Information
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION
OPM-0679

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER: LEGRAND AV INC.

Sheet: <u>1 of 5</u>

EQUIPMENT NAME:

FCAV1U MONITOR WALL MOUNT

Date: 8/4/23

GENERAL NOTES

- 1. THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2022 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2022 CBC
- 2. THIS DOCUMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER LISTED ABOVE FOR THE SPECIFIC PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH CONSENT.
- 3. THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 2.30.
- 4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 2.30 a_p = 1.0, l_p = 1.5, R_p = 2.5, z/h < 1 CONCRETE WALL, SEE FOLLOWING SHEETS FOR Ω_0
- 5. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 6. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
- 7. SHEET METAL SCREWS SHALL BE TEKS SCREWS BY ITW BUILDEX (ICC ESR-1976).
- 8. CONCRETE WALL DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION. (i.e. z/h < 1)

9. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING

- A. PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
- B. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2022 CBC AND WITH THE DETAILS, MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS.
- C. VERIFY THAT PROJECT SPECIFIC VALUES OF SDS & z/h RESULT IN SEISMIC FORCES (Eh, Ev) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.
- D. VERIFY THAT THE CONCRETE WALL TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR AND THIS OPM.
- E. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY CONCRETE WALL EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 2).
- F. VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE UNIT ATTACHMENTS AND CHECK FOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN 18" OR 6hef FROM THIS UNIT'S ANCHORS.
- G. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS.



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

LEGRAND AV INC.

FCAV1U MONITOR WALL MOUNT

DES. J. ROBERSON

JOB NO. 11-2301

DATE 8/4/23

SHEET 2

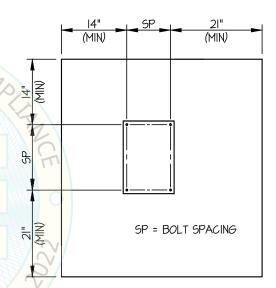
5 SHEETS

10. EXPANSION ANCHORS:

A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension
3/8"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (CARBON STEEL)	ESR-4266	2"	8"	14"	6"	30 FT-LB	1983 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 14" AWAY MINIMUM (i.e. CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.
- C. TESTING AND SPECIAL INSPECTION OF SCREW ANCHORS SHALL
 BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY
 EMPLOYED BY THE FACILITY OWNER PER CBC 1704A & 1910A.5
 AND CAC 7-149. ALL REPORTS SHALL BE SENT TO THE INSPECTOR
 OF RECORD, OWNER AND THE ARCHITECT OR ENGINEER IN
 RESPONSIBLE CHARGE.
 - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST AT LEAST 50% OF THE ANCHORS.
 - (ii) ACCEPTANCE CRITERIA: DATE: 08/15/2023
 - DIRECT TENSION TEST: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.
 - (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.
- D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE WALL WHEN INSTALLING CONCRETE SCREW ANCHORS



TYPICAL CONCRETE EDGE DETAIL



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

LEGRAND AV INC.

FCAV1U MONITOR WALL MOUNT

DES. J. ROBERSON

JOB NO. 11-2301

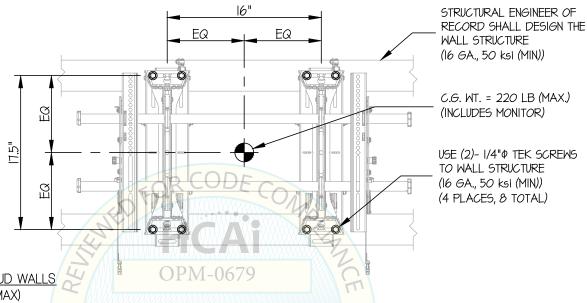
DATE 8/4/23

3

of **5** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



STEEL AND WOOD STUD WALLS

 $T_{\text{U}} = 145 \text{ LB/SCREW (MAX)} \\ V_{\text{U}} = 65 \text{ LB/SCREW (MAX)} \\ \text{(VALUES DO NOT INCLUDE Ω_{N})}$

CONCRETE WALL

 $T_U = 394 \text{ LB/BOLT (MAX)}$ $V_U = 376 \text{ LB/BOLT (MAX)}$ (VALUES INCLUDE Ω_0)

NOTES:

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 2.30, 20 = 1.0, 10 = 1.5, 10 = 2.0, 10

BY: William Staehlin

ELEVATION AT WALL PLATE

HORIZONTAL FORCE (En) = 1.66 Wp

HORIZONTAL FORCE (Emh) = 3.32 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.46 Wp

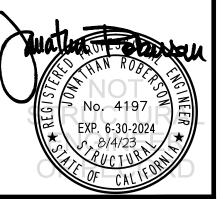
2. THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL CG POSITIONS UP TO THE VALUES SHOWN.

3. THIS PREAPPROVAL WAS PREPARED WITHOUT KNOWLEDGE OF ANY SITE CONDITION. COMPATIBILITY FOR USE WITH A SITE SHALL BE EVALUATED BY THE STRUCTURAL ENGINEER OF RECORD OF THE INSTALLATION

(SEOR). USE REQUIRES APPROVAL BY THE SEOR.

4. STRUCTURAL ENGINEER OF RECORD FOR THE INSTALLATION SHALL VERIFY ALL CONDITIONS, EVALUATE INTERACTION WITH ADJACENT EQUIPMENT AND ANCHORS, AND PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.

4. SEE GENERAL NOTES: SHEETS 1 AND 2.



LEGRAND AV INC.

EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

DES. J. ROBERSON

8/4/23

11-2301 JOB NO.

DATE

OF SHEETS

SHEET

FCAV1U

MONITOR WALL MOUNT

SEISMIC SUPPORTS & ATTACHMENTS **WALL MOUNTED** STRUCTURAL ENGINEER OF RECORD SHALL DESIGN THE WALL STRUCTURE 12" 4x BLKG (16 GA., 50 ksi (MIN)) MAX (DOUGLAS-FIR LARCH USE (2)- I/4" P TEK SCREWS NUMBER 2 MIN.) TO WALL STRUCTURE (DESIGNED BY STRUCTURAL (16 GA., 50 ksi (MIN)) ENGINEER OF RECORD) (4 PLACES, 8 TOTAL) **►**Tu C.G. WT. = 220 LB (MAX.) (INCLUDES MONITOR) USE 2-1/4" 0 X 4" WOOD SCREWS AT BLKG. (PRE-DRILL HOLES TO 70% SHANK DIAMETER) (4 PLACES, 8 TOTAL) 5/8" THK. ^TIlliam Staehlin WALLBOARD MOUNTING BRACKET IS (ONE LAYER MAX) (ASTM AIOO8/AIOII 12 GA., 30 ksi (MIN)) 5/8" THK. NOTE: **WALLBOARD** MIN EDGE DISTANCE = 0.75" MIN EDGE DISTANCE = I" (ONE LAYER MAX) MIN END DISTANCE = 0.75" MIN END DISTANCE = 2" STEEL STUD WALL SECTION WOOD STUD WALL SECTION



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

LEGRAND AV INC.

FCAV1U MONITOR WALL MOUNT DES. J. ROBERSON

11-2301 JOB NO.

8/4/23 DATE

SHEET

OF SHEETS

