

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL										
OF MANUFACTURER'S CERTIFICATION (OPM) APPLICATION #: OPM-0212-13										
OSHPD Preapproval of Manufacturer's Certification (OPM)										
Type: ☐ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number:										
Manufacturer Information										
Manufacturer: Peerless Industries, Inc.										
Manufacturer's Technical Representative: Mark Berens										
Mailing Address: 2300 White Oak Circle, Aurora, IL. 60502										
Telephone: (630) 375-5196 Email: <u>DMBerens@peerless-av.com</u>										
Product Information										
Product Name: Smartmount Articulating Wall Arm (22" to 40" Displays)										
Product Type: Computer OPM-0212-13										
Product Model Number: SA740P SA740P BY: William Statehlin										
General Description: Wall Mount for Video Monitor										
DATE: 07/31/2015										
E Property of the second of th										
Applicant Information										
Applicant Information Applicant Company Name: EASE Co.										
Contact Person: Jonathan Roberson, S.E.										
Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA. 91709										
Telephone: (909) 606-7622 Email: J.Roberson@EASECo.com										
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.										
Signature of Applicant: Date: 4/1/15										
Title: Principal Engineer Company Name: EASE Co.										

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 1/24/13)

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Registered Design Professional Preparing Engineering Recommendations									
Company Name: EASE Co.									
Name: Jonathan Roberson, S.E. California License Number: S4197									
Mailing Address: _5877 Pine Ave. Suite 210, Chino Hills, CA. 91709									
Telephone: 909-606-7667 Email: J.Roberson@EASECo.com									
OSHPD Special Seismic Certification Preapproval (OSP)									
 Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required) ✓ Special Seismic Certification is not preapproved 									
Certification Method(s)									
☐ Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-10 ☐ Other* (Please Specify):									
*Use of test criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) 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 2013 may be used when approved by OSHPD prior to testing. Analysis									
OFFICE USE ONLY - OSHPD APPROVAL VALID FOR CBC 2013 ONLY Signature: Date: 07-31-2015									
Print Name: William Staehlin									
Title: SSE Condition of Approval (if applicable):									

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EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

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

Office of Statewide Health Planning and Development
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION

OPM-0212-13

THIS PREAPPROVAL CONFORMS TO THE 2013 CALIFORNIA BUILDING CODE

MANUFACTURER: PEE

PEERLESS INDUSTRIES, INC.

SMARTMOUNT ARTICULATING WALL ARM

Sheet: <u>1 of 6</u> Date: 7/27/15

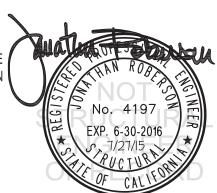
GENERAL NOTES

EQUIPMENT NAME:

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2013 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2013 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 2013 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 1.60, 2.20
- 4. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 1.60, \mathbf{a}_P = 1.0, \mathbf{I}_P = 1.5, \mathbf{R}_P = 1.5, $\mathbf{z}/\mathbf{h} \le 1$ CONCRETE WALL. SEE FOLLOWING SHEETS FOR Ω_0 WHERE SDS = 2.20, \mathbf{a}_P = 1.0, \mathbf{I}_P = 1.5, $\mathbf{z}/\mathbf{h} \le 1$ 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. CONCRETE WALL VALID FOR DEMANDS SHOWN AT ANY ELEVATION (i.e. z/h < 1)

8. 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 2013 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.
- 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.



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OF

SHEETS

PÉERLESS INDUSTRIES, INC.

DES. J. ROBERSON JOB NO. 11-1502 DATE 7/27/15

SMARTMOUNT ARTICULATING WALL ARM

9. EXPANSION ANCHORS:

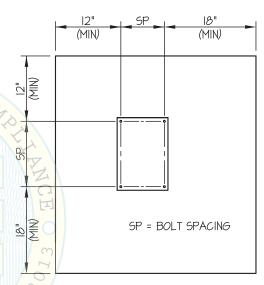
A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

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
1/4"	Normal Weight	3000	Hilti Kwik HUS	ESR-3027	1.92"	5.25"	12"	5"	N/A	779 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE WALL EDGES, 12" AWAY MINIMUM (i.e. CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.
- C. TESTING OF CONCRETE SCREW ANCHORS PER 2013 CBC; 1913A.7:
 TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL
 INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE
 SUBMITTED TO OSHPD
 - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OF THE ANCHORS.
 - (ii) ACCEPTANCE CRITERIA:

BY: William Staehlin

- 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 TILL DING



TYPICAL CONCRETE EDGE DETAIL



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SMARTMOUNT ARTICULATING WALL ARM

JOB NO. 11-150

JOB NO. 11-1502

DATE 7/27/15

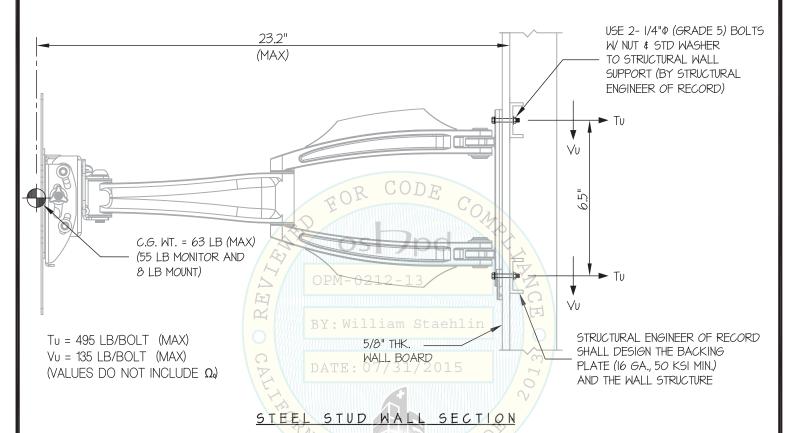
DES. J. ROBERSON

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SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED

SHEETS



NOTES:

1. FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10. STRENGTH DESIGN IS USED. (SDS = 2.20, Δp = 2.5, Δp = 2

HORIZONTAL FORCE (Eh) = 3.96 Wp VERTICAL FORCE (Ev) = 0.44 Wp

- 2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL 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 COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- 4. SEE GENERAL NOTES: SHEETS 1 AND 2

No. 4197 EXP. 6-30-2016

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JOB NO.

DATE

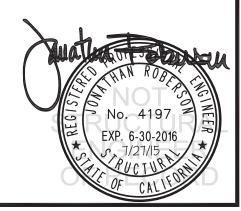
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of 6 sheets

WALL MOUNTED

SMARTMOUNT ARTICULATING WALL ARM

SEISMIC SUPPORTS & ATTACHMENTS 3.12" STRUCTURAL ENGINEER OF RECORD SHALL DESIGN THE BACKING PLATE (16 GA., 50 KSI MIN.) AND THE WALL STRUCTURE 0 C.G. WT. = 63 LB (MAX) 3.25" (55 LB MONITOR AND 8 LB MOUNT) $(\overline{X} = 23.2")$ USE 2- 1/4" (GRADE 5) BOLTS W NUT & STD WASHER TO STRUCTURAL WALL SUPPORT 3.25" (BY STRUCTURAL ENGINEER OF RECORD) UNIT BACKING (A380 ALUMINUM, Fy=23 KSI MIN) ELEVATION AT WALL PLATE (MODEL SAT40P)



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SMARTMOUNT ARTICULATING WALL ARM

JOB NO. 11-1502

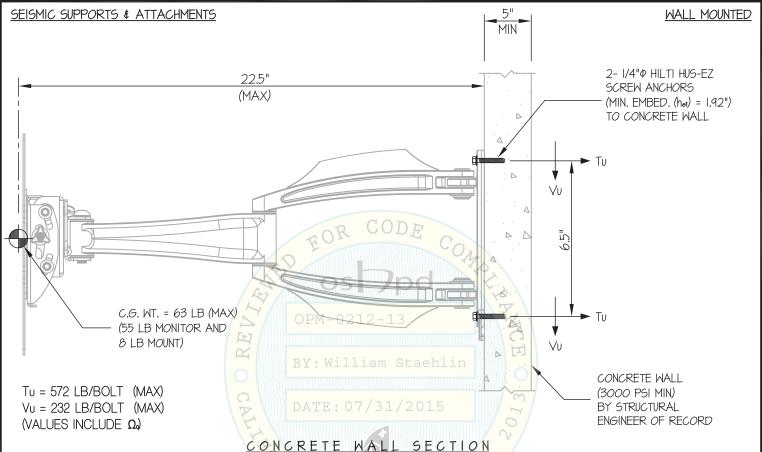
7/27/15

DATE

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OF

6 SHEETS



NOTES:

1. FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10. STRENGTH DESIGN IS USED. (SDS = 1.60, 2p = 2.5, $p_{r} = 1.5$, $p_{r} = 2.5$

HORIZONTAL FORCE (Eh) = 2.88 Wp HORIZONTAL FORCE (Emh) = 7.20 Wp (FOR CONCRETE ANCHORAGE) VERTICAL FORCE (Ev) = 0.32 Wp

- 2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL 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 COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.

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