

APPLICATION FOR OSHPD PREAPPROVAL

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT **FACILITIES DEVELOPMENT DIVISION**

OFFICE USE ONLY

OF MANUFACTURER'S CERTIFICATION (OPM) APPLICATION #: OPM-0409-13
OSHPD Preapproval of Manufacturer's Certification (OPM)
Type: ☐ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number:
Manufacturer Information
Manufacturer: Phononic Devices, Inc.
Manufacturer's Technical Representative: Erik Miller
Mailing Address: 800 Capitola Dr, Suite 7, Durham NC 27713
Telephone: 919-908-7088 Email: Erik.miller@phononic.com
Product Information
Product Name: Evolve 5.5
Product Type: Refrigerator
Product Model Number: ELR055SSA-002; ELR055SSGA-002; ELR055SSB-002; ELR055SSGA-002
General Description: 5.5 cubic foot medical grade refrigerator
DATE: 08/03/2017
Applicant Information
Applicant Company Name: Phononic Devices, Inc.
Contact Person: Jerilin Kenney
Mailing Address: 800 Capitola Dr, Suite 7, Durham NC 27713
Telephone: 919-908-7858 Email: Jerilin.kenney@phononic.com
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.
Signature of Applicant: Jerilin Kenney Date: 3/15/17
Title: VP / GM Life Sciences & Company Name: Phononic Devices, Inc.

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







OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT **FACILITIES DEVELOPMENT DIVISION**

Registered Design Professional Preparing Engineering Recommendations								
Company Name: Degenkolb Engineers								
Name: Robert Graff California License Number: 5113								
Mailing Address: 375 Beal St, Suite 500, San Francisco CA 94105								
Telephone: 415 392-6952 Email: rgraff@degenkolb.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 1950-16 ☐ Other* (Please Specify):								
OPM-0409-13								
*Use of criteria other than those adopted by the California Building Standards Code, 2016 (CBSC 2016) 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 2016 may be used when approved by OSHPD prior to testing.								
Experience Data								
Combination of Testing, Analysis, and/or Experience Data (Please Specify):								
List of Attachments Supporting the Manufacturer's Certification								
OTTDIN								
 ☐ Test Report ☐ Drawings ☐ Calculations ☐ Manufacturer's Catalog ☐ Other(s) ☐ (Please Specify): ☐ Manufacturer product info provided within the calculation package 								
Other(s) (Flease openity). Individual of product the provided within the edicaletic package								
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS								
Signature:								
Print Name: William Staehlin								
Title: SSE								
Condition of Approval (if applicable):								

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





GENERAL NOTES

I GENERAL

- THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CALIFORNIA BUILDING CODE (CBC) 2016. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2016.
- 2. EQUIPMENT: PHONONIC REFRIGERATOR EVOLVE 5.5

II. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

- 1. VERIFY MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE AND THE REQUIREMENTS OF THIS PRE -APPROVAL DOCUMENT.
- VERIFY THE ADEQUACY OF THE EXISTING FRAMING TO SUPPORT THE LOADS INDICATED IN THE DETAILS ON \$2 AND \$3, IN ADDITION TO ALL OTHER LOADS.
- 3. VERIFY ANCHORS ARE ADEQUATE DISTANCES FROM OPENINGS AND EDGES OF SLABS.
- 4. VERIFY ANCHORS ARE ADEQUATE DISTANCES FROM NEW OR EXISTING ANCHORS.
- 5. DESIGN ANY SUPPLEMENTARY MEMBER AND THEIR ATTACHMENT OTHER THAN THOSE DETAILED WITHIN THIS PRE-APPROVAL.
- 6. VERIFY THE EQUIPMENT WEIGHT, C.G. LOCATION. ANCHOR LOCATIONS AND ANCHOR DETAILS AGREE WITH THE INFORMATION SHOWN IN THIS PRE-APPROVAL

III. MECHANICAL ANCHORS

- WEDGE ANCHORS INTO CONCRETE: USE ZINC PLATE OR STAINLESS STEEL POWERS, POWER STUD + SD2 (ICC ESR-2502).
- THREADED ANCHORS INTO CONCRETE: USE ZINC PLATE POWERS SNAKE + ANCHORS ICC (ESR 2272).
- 3. INSTALL ANCHORS IN ACCORDANCE WITH ICC REPORT.
- 4. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT APPROVED BY THE ENGINEER OF RECORD. NOTIFY THE ENGINEER OF RECORD IF ANY REINFORCING IS DAMAGED.
- ANCHORS WILL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY REPORT OF THE TEST RESULTS TO BE SUBMITTED TO OSHPD.
- 6. IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME INITIAL TESTING FREQUENCY.
- 7. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
- 8. TEST 50% WEDGE ANCHORS PER THE FOLLOWING METHOD:
 - A. TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE BELOW WITHIN THE FOLLOWING LIMITS:

ANCHOR DIA (IN)	TORQUE LOAD (FT-LBS)	MAX TURNS OF NUT
3/8 WEDGE ANCHOR	20	1/2 TURN
1/2 WEDGE ANCHOR	40	1/2 TURN
1/2 THREADED ANCHOR	36	1/4 TURN

9. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT AND WASHER.

- 10. THE FOLLOWING APPLY TO THRU-BOLTS:
 - A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER SNUG TIGHT.
 - B. THRU-BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE FOR CONCRETE.
 - C. THRU-BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING IN ACCODRANCE WITH REQUIREMENTS FOR POST-INSTALLED ANCHORS.

V. STRUCTURAL TESTS, INSPECTIONS, AND OBSERVATIONS

- 1. AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS WILL BE RETAINED BYTHE OWNER TO PERFORM THE FOLLOWING TESTS AND INSPECTION. PROVIDE ACCESS AND FURNISH SAMPLES TO THE AGENCY AS REQUIRED.
- 2. THE FOLLOWING ITEMS REQUIRE TESTS AND INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHAPTER "STRUCTURAL TESTS AND INSPECTIONS" OF THE CODE.
- 3. MECHANICAL ANCHORS:
 - A. VERIFY TYPE OF ANCHOR, ANCHOR DIMENSIONS, CONCRETE TYPE AND COMPRESSIVE STRENGTH, PREDRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCE, SLAB THICKNESS AND ANCHOR EMBEDMENT.
 - B. PROOF-TEST AS INDICATED IN THE MECHANICAL ANCHORS SECTION OF THESE GENERAL NOTES.

VI. DESIGN CRITERIA

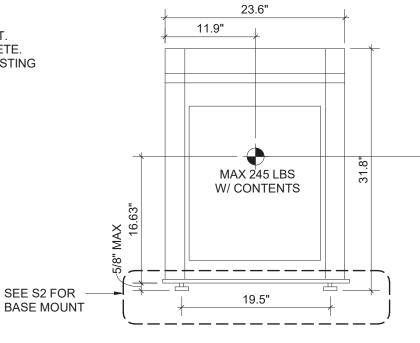
- APPLICABLE CODE: 2016 CALIFORNIA BUILDING CODE AND ASCE 7-10 INCLUDING SUPPLEMENTS.
- 2. SEISMIC DESIGN: a_p = 1.0
- $R_p = 2.5$
- Ω_0 = 2.0 WHERE APPLICABLE
- SEISMIC FORCE Fp = 1.80*Wp Ev = 0.500*Wp
- WHERE: $z/h \le 1.0$ (SUPPORTS & ATTACHMENTS AT ANY FLR)
- S_{DS} ≤ 2.5 WORST CASE ACCEL
- Ip = 1.5 FOR ESSENTIAL EQUIP

VII. HOW TO USE THIS PRE-APPROVAL

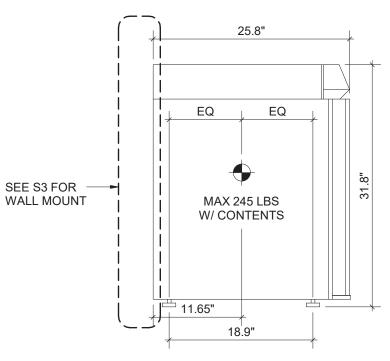
- 1. REVIEW AND UNDERSTAND ALL GENERAL NOTES AND FIGURES BEFORE PROCEEDING.
- 2. DETERMINE TYPE OF SUPPORTING STRUCTURE.
- 3. SELECT CORRECT INSTALLATION OPTION FOR LOCATION AND STRUCTURE TYPE.
- 4. DETERMINE THE MAXIMUM DEMANDS ON THE EXISTING STRUCTURE AND VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE WITH THE STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING.
- CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- 6. EQUIPMENT MFR MUST DESIGN UNIT TO MAKE C.G. EQUAL OR LESS THAN THE C.G. HEIGHT DIMENSION SHOWN.
- 7. ALL HOLES THRU STEEL FOR BOLTS SHALL BE STANDARD HOLE PER AISC, 14TH ED TABLE J3.3 (MAX HOLE DIAMETER = BOLT SIZE + 1/16")

VIII. SHEET LIST

- S1 GENERAL NOTES AND ELEVATIONS S2 BASE MOUNT DETAILS
- S3 WALL MOUNT DETAILS
- 53 WALL MOUNT DETAIL



FRONT ELEVATION



SIDE ELEVATION

PHONONIC EVOLVE 5.5 OSHPD PREAPPROVAL OF MANUFACTURERS CERTIFICATION OPM 0409 - 13

GENERAL NOTES & FLEVATIONS

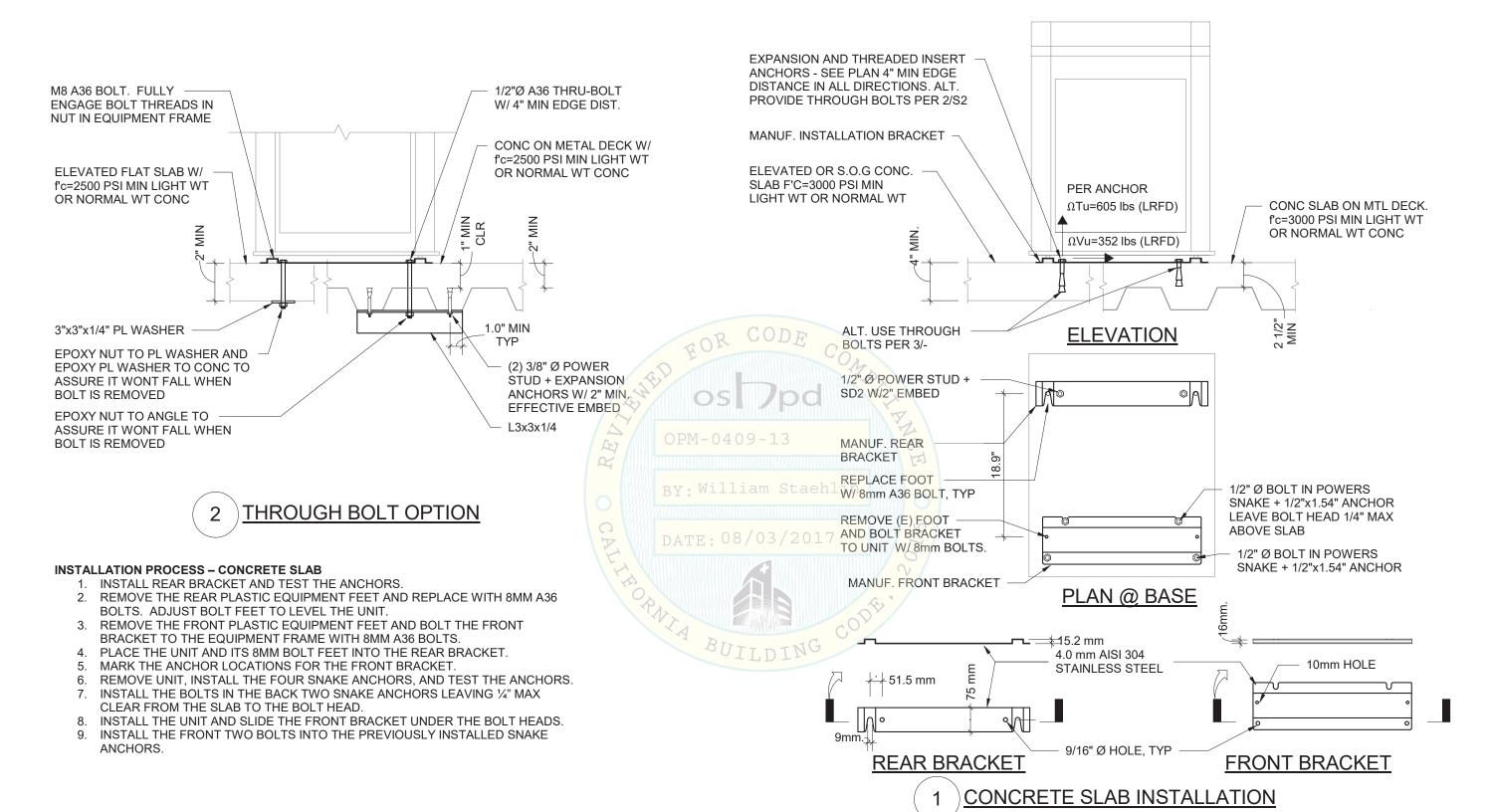
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Sheet Number





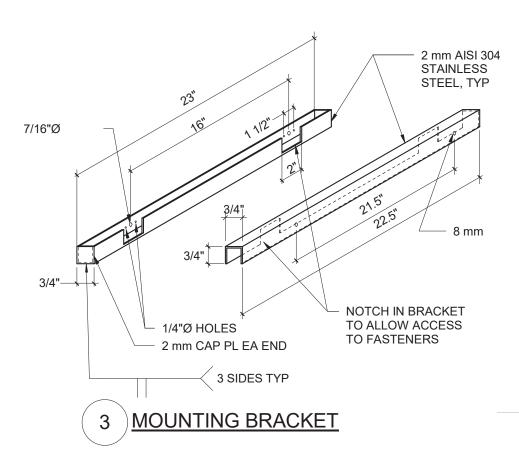
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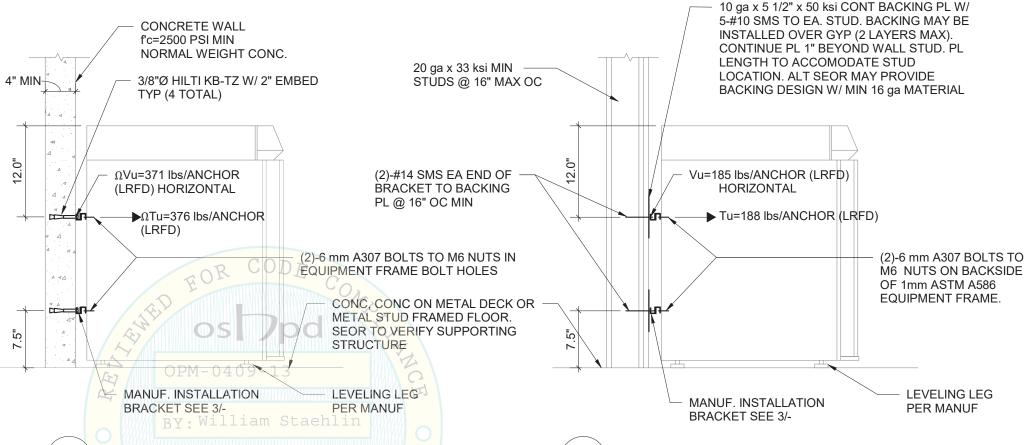


PHONONIC EVOLVE 5.5
OSHPD PREAPPROVAL OF
MANUFACTURERS CERTIFICATION
OPM 0409 - 13
Sheet Number

BASE MOUNT DETAILS

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Date:	05/12/2	2017		2	OF	33	Sheets





INSTALLATION PROCESS -- CONCRETE WALL

- 1. INSTALL BRACKETS ON THE BACK OF THE UNIT.
- 2. LAYOUT THE WALL BRACKETS AND DRILL FOR ANCHORS.

CONCRETE WALL MOUNT

- 3. INSTALL THE WALL BRACKET AND TORQUE TEST THE ANCHORS.
- 4. SLIDE THE UNIT INTO POSITION UNTIL BRACKETS MAKE CONTACT.
- LEAN THE UNIT FORWARD WHILE PUSHING TOWARD THE WALL.
- LOWER THE UNIT INTO PLACE ENGAGING THE TWO BRACKETS.

INSTALLATION PROCESS - METAL STUD WALL

1. INSTALL BRACKETS ON THE BACK OF THE UNIT.

METAL STUD WALL MOUNT

- 2. LAYOUT THE WALL BRACKETS AND SECURE IT TO BACKING PLATES WITH SHEET METAL SCREWS.
- 3. SLIDE THE UNIT INTO POSITION. UNTIL BRACKETS MAKE CONTACT.
- 4. LEAN THE UNIT FORWARD WHILE PUSHING TOWARD THE WALL
- 5. LOWER THE UNIT INTO PLACE ENGAGING THE TWO BRACKETS.



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PHONONIC EVOLVE 5.5
OSHPD PREAPPROVAL OF
MANUFACTURERS CERTIFICATION
OPM 0409 - 13
Sheet Number

wall mount details

rawn: MM Job Number: B75350

Title:

Drawn:	MM	Job Number: B7535001.00			S3		
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