

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

| APPLICATION FOR OSHPD PREAPPROVAL OF | OFFICE USE ONLY |
|---|---------------------------------------|
| MANUFACTURER'S CERTIFICATION (OPM) | APPLICATION #: OPM-0491 |
| OSHPD Preapproval of Manufacturer's Certification (OPM) | |
| Type: New X Renewal/Update | |
| Manufacturer Information | |
| Manufacturer: Getinge USA | |
| Manufacturer's Technical Representative: Anthony Powell | |
| Mailing Address: 1777 E. Henrietta Road, Rochester, NY 14623 | |
| Telephone: (585) 272-5243 Email: Anthony.powell@ | getinge.com |
| EOR CODE CO | DA. |
| Product Information OSHPD | |
| Product Name: 56 SERIES WARMING CABINETS (WALL MOUNTED) | - X |
| Product Type: Other Mechanical and Electrical Components | |
| Product Model Number: 5618 and 5624 | |
| General Description: Warm storage of the solutions and blankets used for pa | atient care in surgery, recovery etc. |
| DATE: 11/23/2021 | 507 |
| Applicant Information | |
| Applicant Company Name: EASE LLC. | ODY |
| Contact Person: Tiffany Tonn | |

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

Mailing Address: 1515 FAIRVIEW AVE, STE 205, MISSOULA, MT 59801





STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

Telephone: (406) 541-3273

Title:

Email: tiffany@easeco.com



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

| Registered Design Professonal Preparing Engineering Recommendations | | | | | | |
|---|--|--|--|--|--|--|
| Company Name: EASE | | | | | | |
| Name: Jonathan Roberson California License Number: S4197 | | | | | | |
| Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709 | | | | | | |
| Telephone: (909) 606-7622 Email: jon@EASECo.com | | | | | | |
| | | | | | | |
| OSHPD Special Seismic Certification Preapproval (OSP) | | | | | | |
| Special Seismic Certification is preapproved under OSP OSP Number: | | | | | | |
| | | | | | | |
| Contidination Mathed | | | | | | |
| Certification Method | | | | | | |
| Testing in accordance with: ICC-ES AC156 FM 1950-16 | | | | | | |
| Other(s) (Please Specify): | | | | | | |
| *Use of criteria other than those adopted by the California Building Standards Code, 2019 (CBSC 2019) 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 2019 may be used when approved by OSHPD prior to testing. | | | | | | |
| X Analysis BY: Jeffrey Kikumoto | | | | | | |
| Experience Data DATE: 11/23/2021 | | | | | | |
| Combination of Testing, Analysis, and/or Experience Data (Please Specify): | | | | | | |
| | | | | | | |
| CODY | | | | | | |
| OSHPD Approval BUILDING | | | | | | |
| Date: 11/23/2021 | | | | | | |
| Name: Jeffrey Kikumoto Title: Senior Structural Engineer | | | | | | |
| Condition of Approval (if applicable): | | | | | | |

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



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-0491-19

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER:

GETINGE USA, INC.

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

Date: 11/18/21

EQUIPMENT NAME:

5618 & 5624 WARMING CABINETS (WALL MOUNTED)

GENERAL NOTES

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2019 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2019 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 2019 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 1.60 & 2.20.
- 4. FORCES PER ASCE 7-16 SECTION 13.3, 1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 1.60 a_p = 1.0, l_p = 1.5, R_p = 1.5, $z/h \le 1$ STEEL STUD WALL AND CONCRETE WALL. SEE FOLLOWING SHEETS FOR Ω_0 WHERE SDS = 2.20 a_p = 1.0, l_p = 1.5, R_p = 1.5, $Z/h \le 1$ STEEL STUD WALL; Rumo to
- 5. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 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. STEEL STUD WALL AND 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 2019 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 REPORT 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.



www.EquipmentAnchorage.com

OF

GETINGE USA, INC.

5618 & 5624 WARMING CABINETS (WALL MOUNTED)

DE8. J. ROBERSON JOB NO. 36-1801

DATE

11/18/21

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9. SCREW 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 HUS (CARBON STEEL) | ESR-3027 | 1.86" | 6" | 12" | 6" | N/A | 1440 |

- B. TESTING AND SPECIAL INSPECTION OF EXPANSION 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:
 - 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

No. 4197

EXP. 6-30-2022

| July 18/21 | March 19/21 | Mar

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GETINGE USA, INC.

5618 & 5624 WARMING CABINETS (WALL MOUNTED)

DES. J. ROBERSON

11/18/21

JOB NO. 36-1801

DATE

of 5 SHEETS

WALL MOUNTED

SHEET

SEISMIC SUPPORTS & ATTACHMENTS

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

C.G. WT. =
SEE SCHED

USE 4- 3/8"\$\phi\$ (GR 5) BOLTS

W/ I/4" x I-I/4" O.D. FENDER WASHERS
TO STRUCTURAL WALL SUPPORT
(I6 GA, 50 KSI MIN)

OPM-0491

5/8" THKBY: Jeff ey Kikumvuto
WALL BOARD

STEEL STUD WALL SECTION

NOTES:

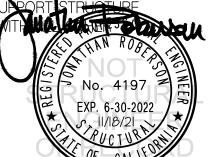
1. FORCES ARE DETERMINED PER 2019 CALIFORNIA BUILDING CODE AND ASCE 7-16.

STRENGTH DESIGN IS USED. (ap = 1.0, lp = 1.5, Rp = 1.5, Ω_0 = 1.5, z/h \leq 1)

| Sds | 1.60 | 2.20 |
|------------------------|---------|---------|
| HORIZONTAL FORCE (En) | 1.92 Wp | 2.64 Wp |
| HORIZONTAL FORCE (Emh) | 2.88 Wp | 3.96 Wp |
| VERTICAL FORCE (Ev) | 0.32 Wp | 0.44 Wp |

(Emh = Eh x Ω_0 ; FOR CONCRETE ANCHORAGE)

- 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 STR DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH LOADS THAT MAY BE PRESENT.
- 4. SEE GENERAL NOTES: SHEET 1.



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GETINGE USA, INC.

5618 & 5624 WARMING CABINETS (WALL MOUNTED)

53"

27.5"

DES. J. ROBERSON

JOB NO. 36-1801

DATE 11/18/21

SHEET

4

OF 5 SHEETS
WALL MOUNTED

SEISMIC SUPPORTS & ATTACHMENTS

STRUCTURAL ENGINEER OF RECORD SHALL DESIGN THE BACKING PLATE (16 GA., 50 KSI MIN.)

AND THE WALL STRUCTURE

USE 4- 3/8"¢ (GR 5) BOLTS
W 1/4" x 1-1/4" O.D. FENDER WASHERS
TO STRUCTURAL WALL SUPPORT
(16 GA, 50 KSI MIN)
UNIT MATERIAL
(0.048" THK 201 OR 304 SS, Fy=30 KSI MIN)

OPM-0491

_C.G. WT. = SEE SCHED

| MAX SDS | MODEL | WEIGHT (lb.) | <u>Z</u> (in.) | + Tu (lb.) | + Vu (lb.) |
|---------|---------------|-----------------|-------------------|---------------|---------------|
| 2.20 | <u>5</u> 5618 | 534 | 9.4" | 533 | 426 |
| 2.20 | 5624 | 770 | 12.4" | 875 | 615 |

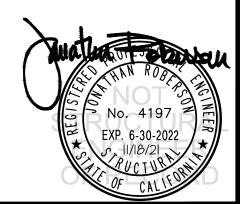
+ VALUES DO NOT INCLUDE Ω₀

FRONT ELEVATION

23"

.EQ.

EQ.



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GETINGE USA, INC.

5618 & 5624 WARMING CABINETS (WALL MOUNTED)

DES. J. ROBERSON

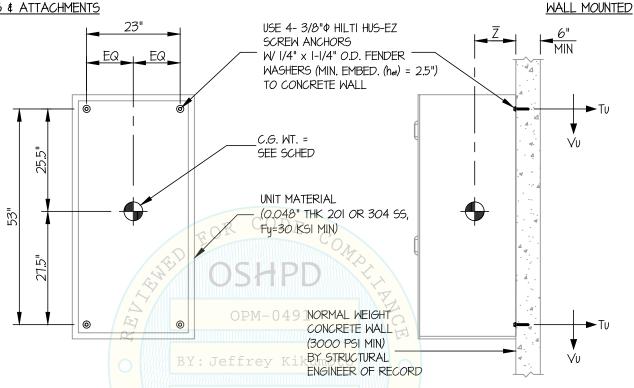
36-1801 JOB NO.

11/18/21 DATE

SHEET

OF SHEETS





FRONT ELEVATION 11/23/202CONCRETE WALL SECTION

PNIA BUILD WEIGHT Z Vυ Tυ MAX SDS MODEL (lb.) (lb.) (lb.) (in.) 2.20 5618 534 8.75" 746 591 1.60 5624 770 11.75" 890 645



st VALUES INCLUDE $\Omega_{
m o}$ FOR CONCRETE ANCHORAGE ONLY