

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

APPLICATION FOR OSHPD PREAPPROVAL										
OF MANUFACTURER'S CERTIFICATION (OPM)  APPLICATION #: OPM-0287-13										
OSHED Property of Manufacturer's Cartification (ORM)										
OSHPD Preapproval of Manufacturer's Certification (OPM)										
Type: ☑ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number:										
Manufacturer Information										
Manufacturer: Draeger Medical, Inc.										
Manufacturer's Technical Representative: Merouane Djerbal										
Mailing Address: 3135 Quarry Road, Telford, PA. 18969										
Telephone: (215) 412-5868 Email: <a href="mailto:DMerouane.Djerbal@draeger.com">DMerouane.Djerbal@draeger.com</a>										
Product Information										
Product Name: Movita Supply System										
Product Type: Overhead OPM-0287-13										
Product Model Number: N/A  BY: Jeffrey Y. Kikumoto										
General Description: Medical gas, electrical and misc ceiling supported supply arm(s)										
DATE: 03/07/2019										
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: 12/8/15										
Title: Principal Engineer Company Name: EASE Co.										

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

osDpc

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

Page 1 of 2



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

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)									
<ul> <li>□ Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required)</li> <li>□ Special Seismic Certification is not preapproved</li> </ul>									
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									
<ul> <li>☐ Test Report</li> <li>☐ Drawings</li> <li>☐ Calculations</li> <li>☐ Manufacturer's Catalog</li> <li>☐ Other(s) (Please Specify):</li> </ul>									
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY									
Signature:									

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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-0287-13

THIS PREAPPROVAL CONFORMS TO THE 2016 CALIFORNIA BUILDING CODE

MANUFACTURER: DRAEGER

**MOVITA SUPPLY SYSTEM** 

Sheet: 1 of 10

Date: 3/5/19

#### **GENERAL NOTES**

**EQUIPMENT NAME:** 

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2016 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2016 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 2016 CALIFORNIA BUILDING CODE.
- 4. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 1.20, **a**<sub>D</sub> = 2.5, I<sub>D</sub> = 1.5, R<sub>D</sub> = 2.5, z/h < 1.
- 5. THE DETAILS IN THIS PREAPPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA, WHERE SDS IS NOT GREATER THAN 1.20.

  BY: Jeffrey Y. Kikumoto
- 6. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
- 7. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 8. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING
  - A. PROVIDE SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
  - B. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2016 CBC AND WITH THE DETAILS SHOWN IN THIS PREAPPROVAL. 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 PREAPPROVAL DOCUMENTS.
  - C. VERIFY THAT THE COMBINATION OF SDS & z/h RESULT IN SEISMIC FORCES (Eh , Ev) THAT ARE NOT GREATER THAN THE VALUES ON THE DETAILS.



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DRAEGER DES. J. ROBERSON

јов no. 11-1456

DATE

3/5/19

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SHEET

OF 10 SHEETS

#### MOVITA SUPPLY SYSTEM

#### 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. Over Flute	Torque Test	Direct Tension
1/2"	Sand Light Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	3.25"	9.75"	24"	3.25"	40 FT-LB	N/A
5/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	4"	12"	24"	3.25"	60 FT-LB	N/A

- B. TESTING OF EXPANSION ANCHORS PER 2016 CBC, 1910A.5:
  TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL
  INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE DESUBMITTED 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:
    - 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.
    - TORQUE TEST: THE APPLICABLE TORQUE MUST BE ACHIEVED
       WITHIN THE FOLLOWING LIMITS: WEDGE TYPE: 1/2 TURN OF THE
       NUT
  - (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.
- C. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING CONCRETE EXPANSION ANCHORS.
- D. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.



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SHEET

MOVITA SUPPLY SYSTEM

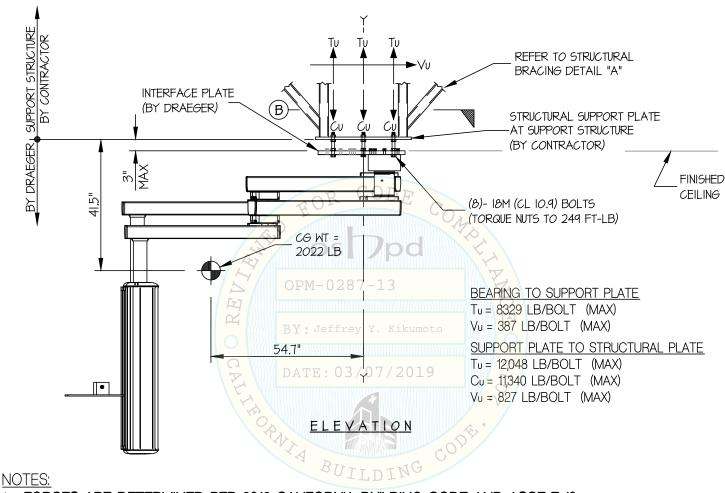
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JOB NO.

OF 10 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CEILING MOUNTED



1. FORCES ARE DETERMINED PER 2016 CALIFORNIA BUILDING CODE AND ASCE 7-10

STRENGTH DESIGN IS USED. (SDS = 1.20,  $\Delta p$  = 2.5, lp = 1.5, Rp = 2.5,  $\Omega_0$  = 2.0,  $z/h \le 1$ )

HORIZONTAL FORCE (Eh) = 2.16 Wp VERTICAL FORCE (Ev) = 0.24 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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SHEET

MOVITA SUPPLY SYSTEM

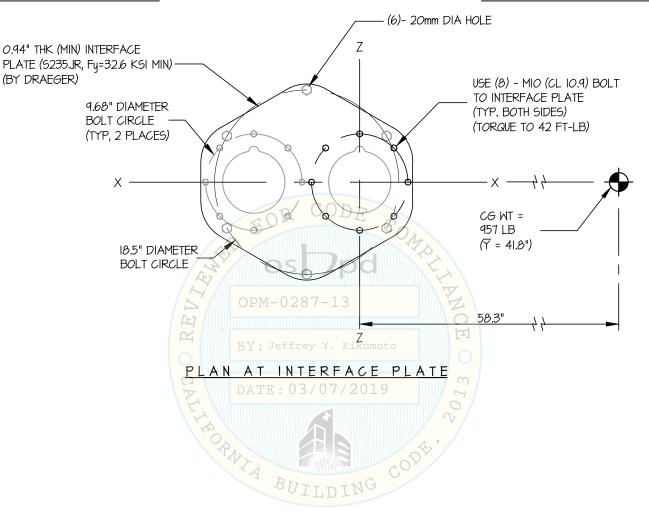
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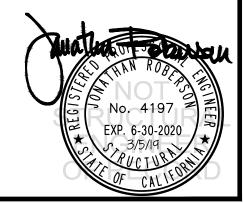
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SEISMIC SUPPORTS & ATTACHMENTS

COLUMN FLANGE TO INTERFACE PLATE





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MOVITA SUPPLY SYSTEM

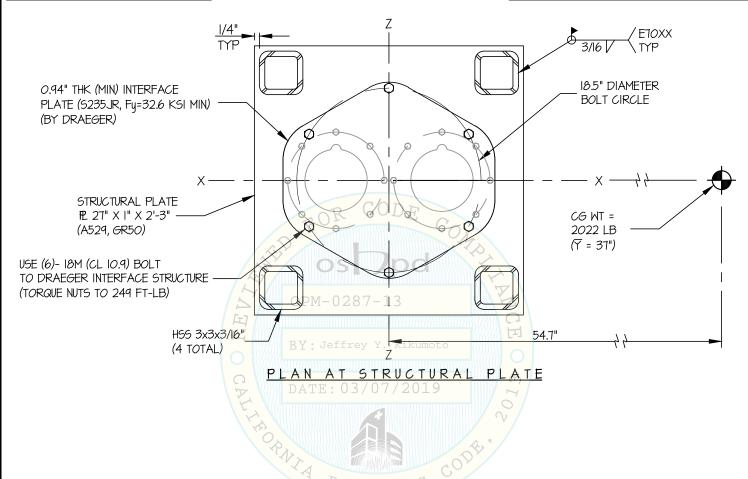
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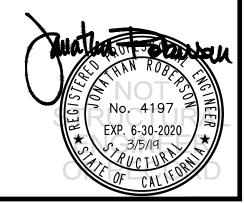
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SEISMIC SUPPORTS & ATTACHMENTS

INTERFACE PLATE TO STRUCTURAL PLATE





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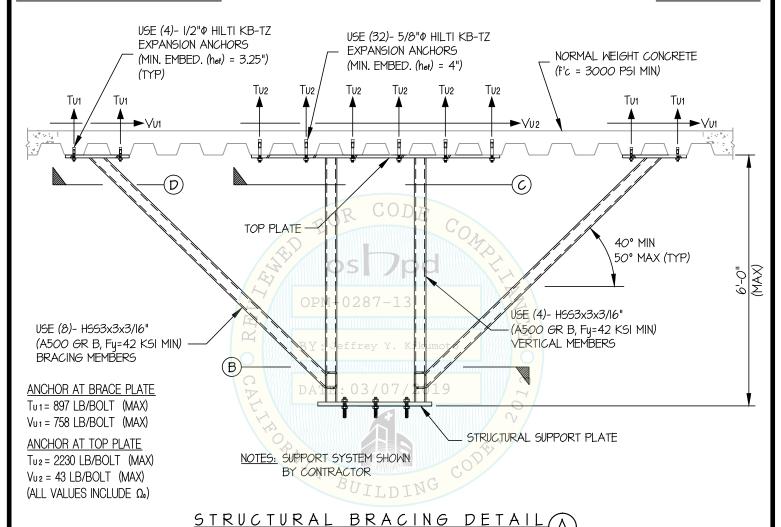
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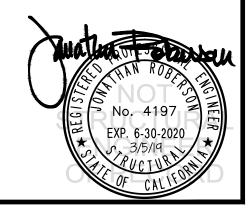
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BRACING DETAILS





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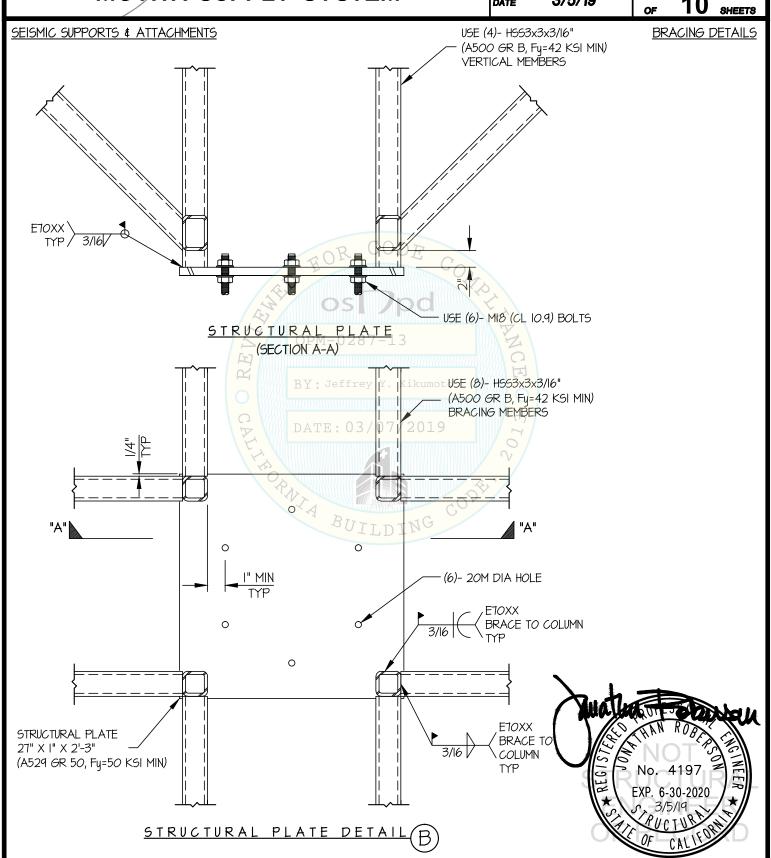
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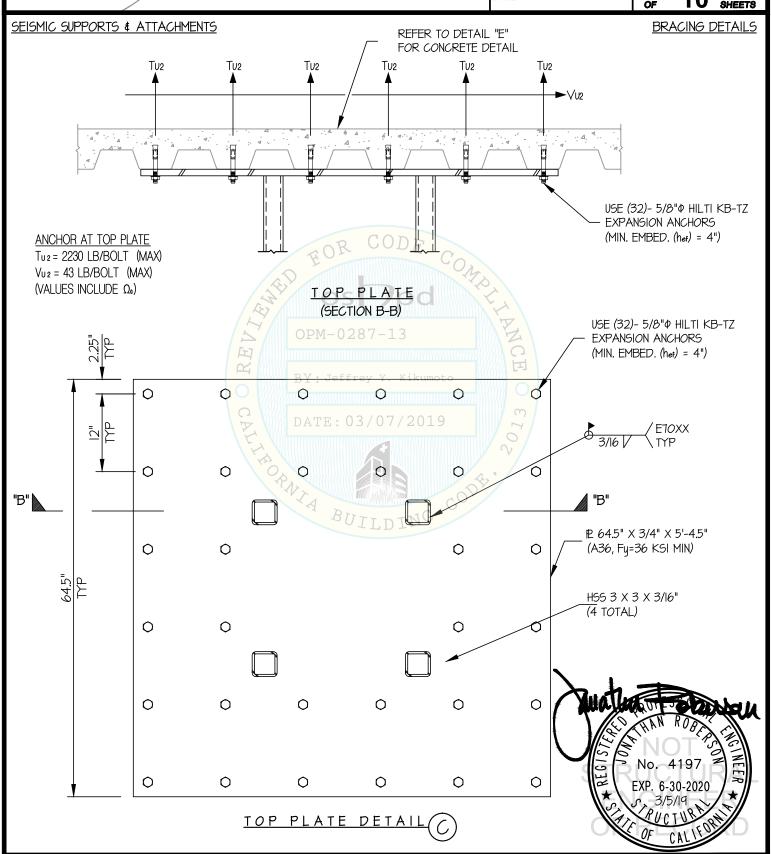
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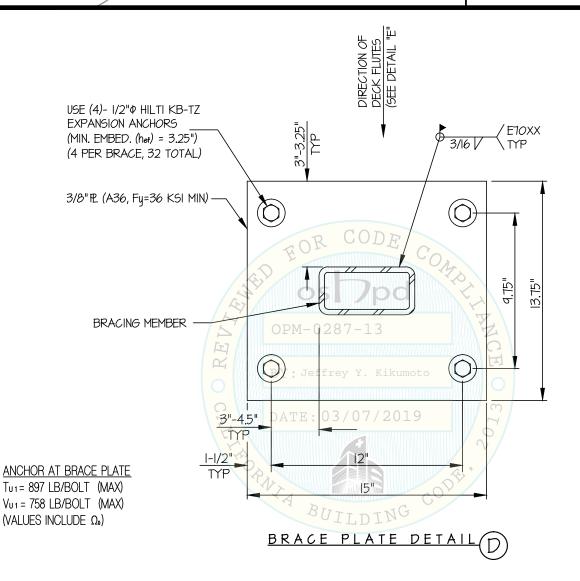
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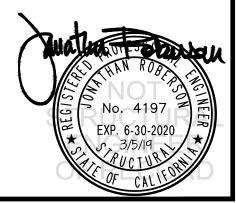
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