

APPLICATION FOR OSHPD PREAPPROVAL

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

OFFICE USE ONLY

OF MANUFACTURER'S CERTIFICATION (OPM) APPLICATION #: OPM-0292-13									
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: Merouane.Djerbal@draeger.com									
Product Information OS DOG									
Product Name: Ponta System									
Product Type: Overhead OPM-0292-13									
Product Model Number: N/A BY: William Staehlin									
General Description: Medical gas, electrical, dual column ceiling supported supply arms									
DATE: 09/06/2017									
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, 2016.									
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"







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: 909-606-7622 Email: <u>J.Roberson@EASECo.com</u>									
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-0292-13									
*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. Analysis DATE: 09/06/2017									
☐ Experience Data									
Combination of Testing, Analysis, and/or Experience Data (Please Specify):									
The state of the s									
List of Attachments Supporting the Manufacturer's Certification									
 ☐ Test Report ☐ Drawings ☐ Calculations ☐ Manufacturer's Catalog ☐ Other(s) (Please Specify): 									
OFFICE USE ONLY - OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS									
Signature: Date: 09-06-2017									
Print Name: William Staehlin									
Title: SSE									
Condition of Approval (if applicable):									

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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-0292-13

THIS PREAPPROVAL CONFORMS TO THE 2016 CALIFORNIA BUILDING CODE

MANUFACTURER:

DRAEGER

Sheet: 1 of 9

EQUIPMENT NAME:

PONTA CEILING FIXTURE

Date: 7/31/17

GENERAL NOTES

- 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 = 2.20, $a_P = 2.5$, $I_P = 1.5$, $R_P = 2.5$, $I_P = 1.5$, I
- 5. THE DETAILS IN THIS PREAPPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA, WHERE SDS IS NOT GREATER THAN 2.20.
- 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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SHEET

JOB NO. 11-1456 DATE 7/31/17

9 SHEETS

PONTA CEILING FIXTURE

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 Flutes	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 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:
 - DIRECT TENSION TEST: THE ANCHOR SHOULD HAVE NO
 OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY IN
 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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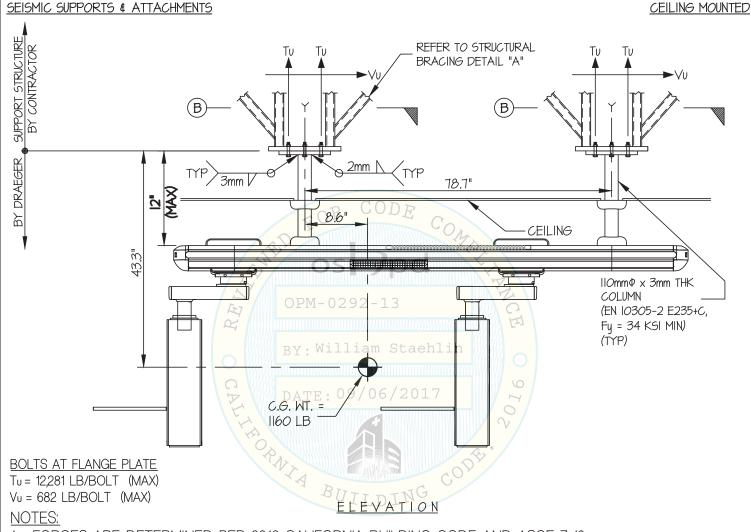
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PONTA CEILING FIXTURE



1. FORCES ARE DETERMINED PER 2016 CALIFORNIA BUILDING CODE AND ASCE 7-10. STRENGTH DESIGN IS USED. (SDs = 2.20, α_p = 2.5, μ_p = 1.5, μ_p = 2.5, μ_p = 2.0, μ_p = 2

HORIZONTAL FORCE (En) = 3.96 Wp HORIZONTAL FORCE (Emh) = 7.92 Wp (FOR CONCRETE ANCHORAGE) 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.



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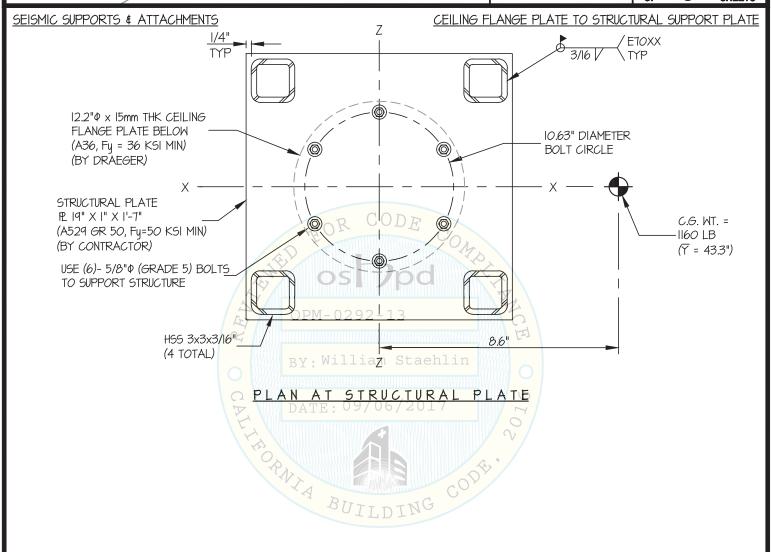
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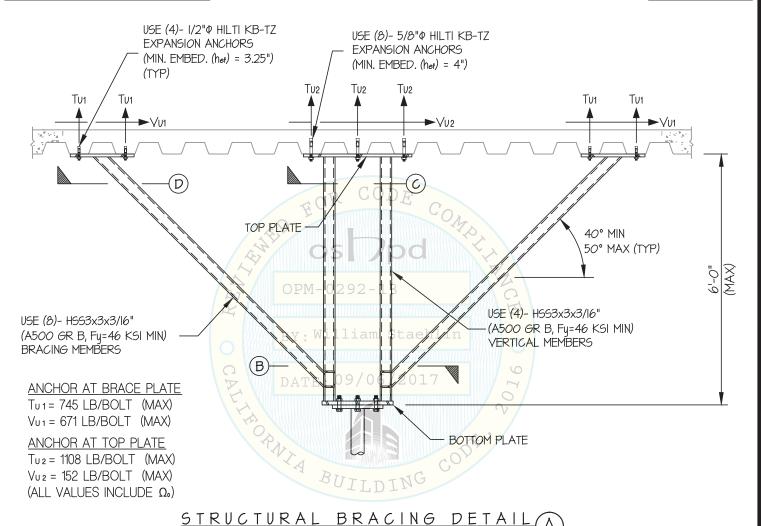
PONTA CEILING FIXTURE

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SEISMIC SUPPORTS & ATTACHMENTS

BRACING DETAILS





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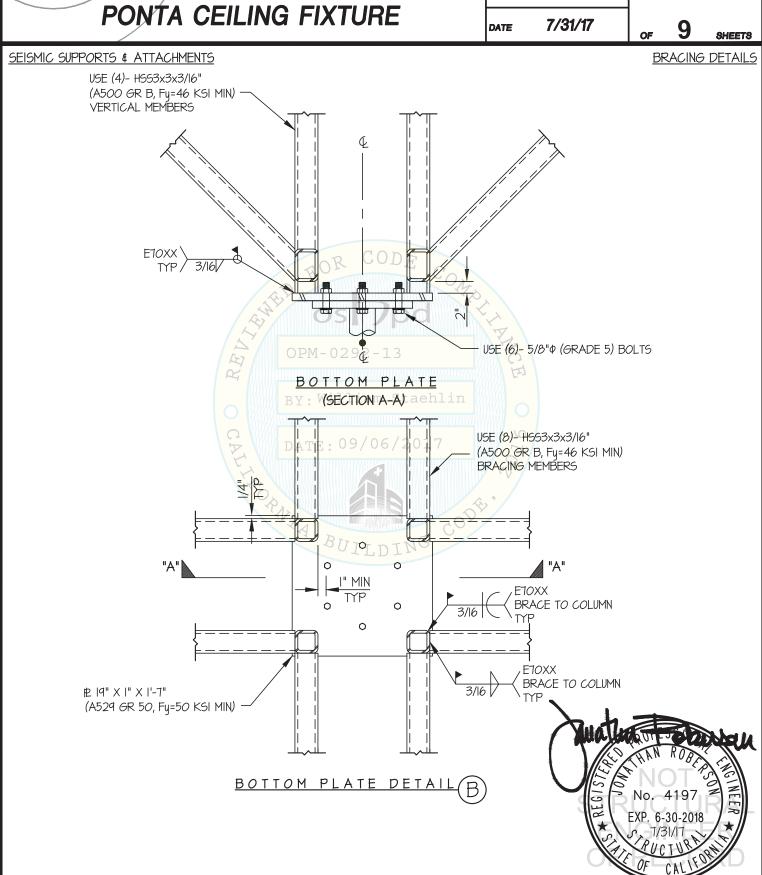
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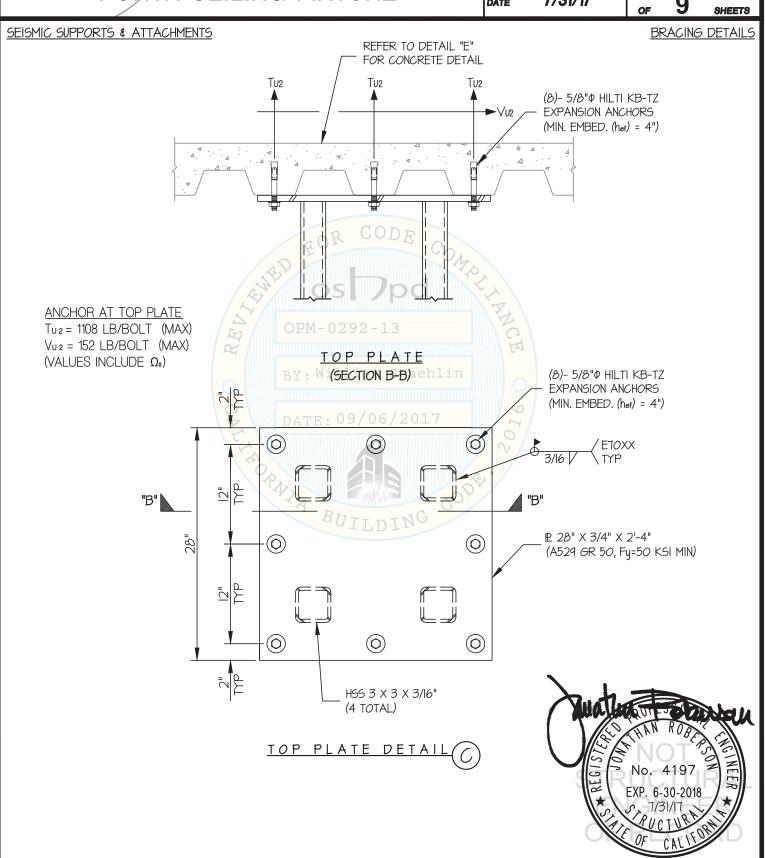
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SHEETS BRACING DETAILS

PONTA CEILING FIXTURE

7/31/17 DATE SEISMIC SUPPORTS & ATTACHMENTS DIRECTION OF DECK FLUTES USE (4)- 1/2"Φ HILTI KB-TZ EXPANSION ANCHORS E70XX (MIN. EMBED. (her) = 3.25") (4 PER BRACE, 32 TOTAL) 3/8" PL (A36, Fy=50 KSI MIN) 13.75 BRACING MEMBER ANCHOR AT BRACE PLATE $T_{U1} = 745 LB/BOLT (MAX)$ $Vu_1 = 671 LB/BOLT (MAX)$

> No. 4197 EXP. 6-30-2018

(VALUES INCLUDE $\Omega_{\rm o}$)

BRACE PLATE DETAIL

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SEISMIC SUPPORTS & ATTACHMENTS

BRACING DETAILS

