



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations	
Company Name:	Don Lee Engineering
Name: Donald E	E. Lee California License Number: S2311
Mailing Address:	21008 Sylvanwood Ave., Lakewood, CA 90715
Telephone: 562	2-860-7896 Email: donleese@aol.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)	
	cordance with: ICC-ESAC156 IFM 1950-10 ease Specify):
	USI / DU L
supports and attac bracings, test crite Analysis Experience D	The resting and the set of the california Building Standards Code, 2013 (CBSC 2013) for component channels are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic are other than those adopted in the CBSC 2013 may be used when approved by OSHPD prior to testing. BY: Jeffrey Y. Kikumoto Data of Testing, Analysis, and/or Experience Data (Please Specify):
List of Attachments Supporting the Manufacturer's Certification	
 □ Test Report	
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY	
Signature: Print Name:	
Title: Senior Structural Engineer	
Condition of Approval (if applicable):	
"Access to Safe, Quality H	ealthcare Environments that Meet California's Diverse and Dynamic Needs"
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY	



Don Lee Engineering

21008 Sylvanwood Ave. Lakewood, Ca 90715 562-860-7896 Donald E. Lee Structural Engineer #2311

OPM-0170-13 Hologic Universal AWS Console Attachment Forces & Details





OPM-0170-13: Reviewed for Code Compliance by Jeffrey Kikumoto

EXPANSION BOLTS General notes: The Structural Engineer of Record Version 12-18-2014 Version7-7-14 Shall: 1. CONCRETE ANCHORS SHALL BE: THIS OSHPD PREAPPROVAL OF Version 7-7-14 HILTI KB-TZ-ESR1917, Corrected August, 2014 MANUFACTURER'S CERTIFICATION IS 1. Verify the equipment is anchored BASED ON THE CBC 2013. THE DEMAND to a normal weight concrete slab at 2. INSPECTION AND TESTING OF EXPANSION BOLTS SHALL (DESIGN FORCES) FOR USE WITH THIS grade (Minimum T=4" f'c=2500 Psi), COMPLY WITH 2013 CBC Section 1913A.7 USING THE TORQUE located such that adequate bolt OPM SHALL BE BASED ON THE CBC WRENCH METHOD AND IN ACCORDANCE WITH THE 2013 strength and foundation size are PROCEDURES BELOW. provided. The anchors shall meet the ALL CONSTRUCTION SHALL COMPLY requirements of the applicable 3. TORQUE WRENCHES SHALL BE FLAT OR ROUND BEAM TYPE WITH THE CBC 2013 & ITS REFERENCED ICC-ESR. CALIBRATED BY AN APPROVED LABORATORY IN ACCORDANCE STANDARDS. WITH ACCEPTED PROCEDURES. 2. Verify that the anchors are an THE SEISMIC ATTACHMENTS SHOWN adequate distance from any slab 4. THE BOLTS SHALL BE INSTALLED AS DESCRIBED IN THE ON THESE PLANS COMPLIES WITH THE edge, opening or control joint. (see APPLICABLE ICC-ESR REPORT. PROVISIONS OF 2013 CBC 1909A FOR Detail 1/S2). THE QUALIFICATION, DESIGN AND USE 5. Testing of the post-installed anchors shall be done in the presence of OF POST-INSTALLED ANCHORS IN 3. Verify that all new or existing the special inspector and a report of the test results shall be submitted to anchors are an adequate distance CONCRETE. from the anchors shown in this the enforcement agency. THE CONTRACTOR SHALL VERIFY THAT pre-approval. SEOR shall verify that 6. THE HOLES SHALL NOT BE DRILLED UNTIL THE BOLTS TO BE THE SITE CONDITIONS ARE SUITABLE there is no adverse interaction where USED ARE ON SITE FOR INSTALLATION OF THE EQUIPMENT other anchors are within 18" from this unit's anchors. AS SHOWN ON THESE DRAWINGS AND 7. INSPECTOR SHALL MEASURE THE LENGTH OF THE BOLTS AND ANY OTHER APPLICABLE PROJECT ENSURE THAT THEY ARE THE PROPER PART NUMBER AND 4. Verify that the installation is in DRAWINGS. IF ANY PROBLEMS ARE LENGTH SHOWN IN DETAIL 3/S2. conformance with the 2013 CBC, FOUND. THE PERSON RESPONSIBLE that the site specific values of SDS & FOR THE PROJECT SHALL BE NOTIFIED 8. OBSERVE THE DRILLING OF THE HOLES AND MEASURE THE z/h do not exceed the values shown IN WRITING LISTING THE PROBLEMS. ACTUAL DEPTH. on Sheet S0, and with the details LOCATE ALL REINFORCEMENT, shown in this pre-approval. Verify 9. IF THE HOLE DEPTH EXCEEDS THAT SHOWN IN DETAIL 3/S2, that the actual equipment's weight, CONDUIT, PIPES OR OTHER ITEMS IN CARE SHALL BE TAKEN WHEN DRIVING THE BOLTS INTO THE THE CONCRETE SLAB PRIOR TO CG location, anchor locations, HOLES SO THAT THE EXTENSION OF THE BOLT ABOVE THE anchor details, and the material and DRILLING THE BOLT HOLES. NOTIFY SURFACE IS AS SHOWN IN DETAIL 3/S2. PERSON IN CHARGE OF THE PROJECT gage of the unit where attachments are made agree with the information **BEFORE CONTINUING IF ANY** 10. INITIAL INSTALLATION: TIGHTEN ALL ANCHORS ON EACH UNIT INTERFERENCE IS FOUND. shown on the pre-approval TO THE SPECIFIED TORQUE AND HOLD IT FOR 2 MINUTES. THE documents. NUT SHALL NOT CONTINUE TO TURN. THE REQUIRED TORQUE Provide any support structure THE CONTRACTOR IS RESPONSIBLE required to support the weights and SHALL BE REACHED WITHIN THE NUMBER OF TURNS AND/OR FOR COMPLIANCE WITH ALL STICK OUT SHOWN IN DETAIL 3/S2. forces shown in addition to all other APPLICABLE CONSTRUCTION SAFTEY required loads PROCEDURES. 11. FINAL TEST A MINIMUM 24 HOURS AFTER INITIAL ROFESSIO INSTALLATION. THE NUTS SHALL REACH THE REQUIRED WHEN THE TEST LAB IS CALLED TO THE ALL D TORQUE WITHIN 1 TURN. SITE, A REPORT MUST BE FILED STATING THE REASON FOR THE CALL AND THE DISPOSITION OF THE CAL 12. BOLT HOLES MAY NOT BE REUSED. MINIMUM DISTANCE BETWEEN NEW BOLT AND ABANDONED HOLE SHALL BE 1- 1. OLD HOLE SHALL BE FILLED WITH NON-SHRINK GROUT. Cold Formed Riveted Assembly, ASTM A653 for A See (Type B FS or CS. Fy=25 KSI Minimum. All items shown are integral with the machine anchor bolts. except the anchor bolts and the plate Signed 3-2-2015 washers. <u>S</u>3 OPM-0170-13 Don Lee Engineering 21008 Sylvanwood Ave. Lakewood, Ca 90715 562-860-7896 Project DLE-(A)-014 Date January 8, 2015 None Scale

03/24/2015

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