



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

**APPLICATION FOR OSHPD PREAPPROVAL
OF MANUFACTURER'S CERTIFICATION (OPM)**

OFFICE USE ONLY

APPLICATION #: OPM-0091-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: New Renewal Update to Pre-CBC 2013 OPA Number: _____

Manufacturer Information

Manufacturer: Carlisle Foodservice Products | Dinex Division

Manufacturer's Technical Representative: Chip May

Mailing Address: 1100 Paramount Parkway, Batavia, IL, 60510

Telephone: (630) 262-2679

Email: ChipMay@CarlisleFSP.com

Product Information

Product Name: Dinex - Thermal Aire II - Senior and Junior retherm docking stations.

Product Type: Food service equipment

OPM-0091-13

Product Model Number: Jr. Docking Stations: DXTAII4745001, DXTAII4745003, DXTAII4745005
Sr. Docking Stations: DXTAII4745002, DXTAII4745004, DXTAII4745006

General Description: Meal heating and cooling equipment for food service.

DATE: 10/24/2014

Applicant Information

Applicant Company Name: Carlisle Foodservice Products | Dinex Division

Contact Person: Chip May

Mailing Address: 1100 Paramount Parkway, Batavia, IL 60510

Telephone: (630) 262-2679

Email: ChipMay@CarlisleFSP.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: 4/2/2014

Title: Dir. HC Technical Services

Company Name: Dinex Div. of Carlisle Foodservice Products

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dvnamic 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: SE 5113

Mailing Address: 235 Montgomery St, Suite 500, San Francisco CA 94104

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 no preapproved

Certification Method(s)

- Testing in accordance with: ICC-ES AC156 FM 1950-10
- Other* (Please Specify): _____

*Use of 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
- Experience Data
- Combination of Testing, Analysis, and/or Experience Data (Please Specify): _____

List of Attachments Supporting the Manufacturer's Certification

- Test Report Drawings Calculations Manufacturer's Catalog
- Other(s) (Please Specify): Manufacturer product info provided within the calculation package.

OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY

Signature: *William Staehlin* Date: October 24, 2014

Print Name: William Staehlin

Title: Senior Structural Engineer

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) 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.
- EQUIPMENT: DINEX THERMAL AIRE II DOCKING SYSTEM – SENIOR DOCKING STATION WATER-COOLED COMPRESSOR AND SENIOR CART 30 TRAY CAPACITY.

II. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

- VERIFY MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2013 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 HEREIN, IN ADDITION TO ALL OTHER LOADS.
- VERIFY ANCHORS ARE ADEQUATE DISTANCES FROM OPENINGS AND EDGES OF SLABS.
- VERIFY ANCHORS ARE ADEQUATE DISTANCES FROM NEW OR EXISTING ANCHORS.
- DESIGN ANY SUPPLEMENTARY MEMBER AND THEIR ATTACHMENTS OTHER THAN THOSE DETAILED WITHIN THIS PRE-APPROVAL.
- VERIFY THE EQUIPMENTS 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 PLATED CARBON STEEL HILTI KB-TZ (ICC ESR-1917). INSTALL ANCHORS IN ACCORDANCE WITH ICC REPORT.
- 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.
- 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.
- TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
- TEST 50% WEDGE ANCHORS PER THE FOLLOWING METHOD:
 - TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE BELOW WITHIN THE FOLLOWING LIMITS:
 - ONE-HALF TURN OF THE NUT.

WEDGE	
ANCHOR DIA. (IN)	TORQUE LOAD (FT-LBS)
3/8	25
1/2	40

IV. STRUCTURAL STEEL

1. STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

SECTIONS	TYPE
PLATES	ASTM A36
ANGLES	ASTM A36
MACHINE BOLTS	ASTM A307
THREADED AND HANGER ROD	ASTM A36
NUTS FOR BOLTS AND MACHINE BOLTS	ASTM A563
PLAIN WASHERS	ANSI B18.22.1
STAINLESS STEEL	ASTM A276 OR A316
TURNBUCKLE	ASTM F1145-11 TYPE 1, GR 1

V. STRUCTURAL TESTS, INSPECTIONS, AND OBSERVATIONS

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

VI. DESIGN CRITERIA

1. APPLICABLE CODE: 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10 INCLUDING SUPPLEMENTS 1 AND 2.

2. SEISMIC DESIGN:

SEISMIC FORCE $F_p = 1.875W_p$ $E_v = 0.500W_p$

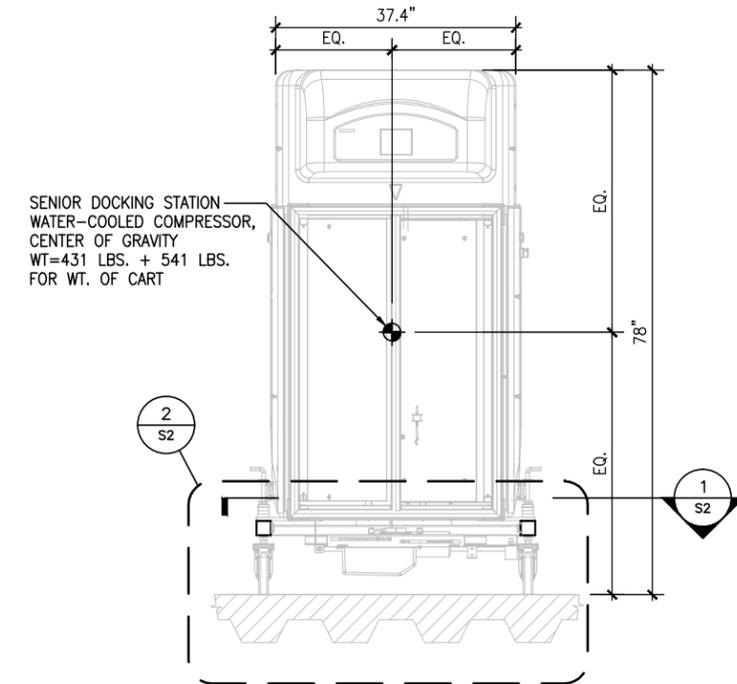
WHERE:
 $S_{ds} = 2.5$ WORST CASE ACCEL. $z/h \leq 1.0$ (SUPPORTS & ATTACHMENTS AT ANY FLR)
 $I_p = 1.5$ FOR ESSENTIAL EQUIP. $z/h = 0.0$ (SUPPORTS & ATTACHMENTS AT GROUND FLR)
 CBC 2013 SECTION 1616A.1.17 $R_p = 6.0$ AIR-SIDE
 $a_p = 2.5$ CABINET
 $\Omega_o = 2.5$ HEATER

VII. HOW TO USE THIS PRE-APPROVAL

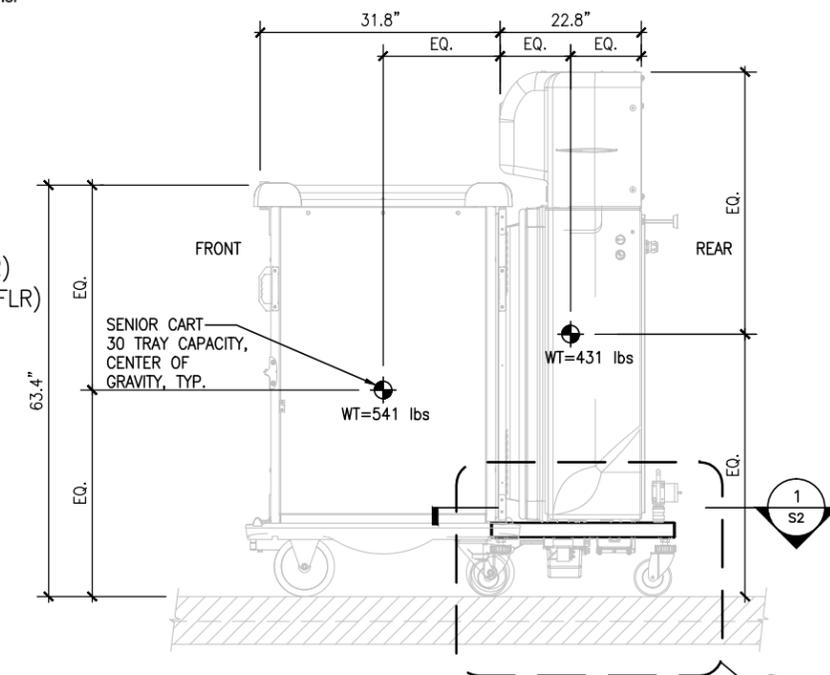
- REVIEW AND UNDERSTAND ALL GENERAL NOTES AND FIGURES BEFORE PROCEEDING.
- DETERMINE TYPE OF SLAB AND LOCATION WITHIN STRUCTURE.
- SELECT CORRECT INSTALLATION OPTION FOR LOCATION AND SLAB TYPE.
- DETERMINE THE MAXIMUM DEMANDS ON THE EXISTING STRUCTURE FROM THE NEW UNIT. AND VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE WITH THE STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING.

SHEET LIST

- S1 GENERAL NOTES
 S2 EQUIP. SUPPORTS AND ATTACHMENTS



1 EQUIPMENT ELEVATION – FRONT
N.T.S.



2 EQUIPMENT ELEVATION – SIDE
N.T.S.



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DINEX THERMAL AIRE II OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)
 Title: _____ Sheet Number

GENERAL NOTES

Drawn: KLM Job Number: B2535005.00
 Design: ATHH Check: RMG
 Date: 3/21/14

S1

1 OF 2 Sheets

