

APPLICATION FOR OSHPD PREAPPROVAL

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

OF MANUFACTURER'S CERTIFICATION (OPM) APPLICATION #: OPM-0181-13
OSHPD Preapproval of Manufacturer's Certification (OPM)
Type: ☐ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number:
Manufacturer Information
Manufacturer: Labconco Corporation
Manufacturer's Technical Representative: Kevin Gilkison
Mailing Address: 8811 Prospect Avenue Kansas City, MO 64132
Telephone: (800) 821-5525 Email: DKGilkison@labconco.com
Product Information
Product Name: Purifier Logic+ Class Il Biosafety Cabinets
Product Type: Type A2 and Type B2 OPM-0181-13
Product Model Number: Series 3023, 3024, 3025, 3026, 3034, 3036
General Description: Biological Safety Cabinets on base stands
DATE: 01/25/2016
Applicant Information
Applicant Company Name: Labconco Corporation
Contact Person: Kevin Gilkison
Mailing Address: 8811 Prospect Avenue Kansas City, MO 64132
Telephone: (800) 821-5525 Email: KGilkison@labconco.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: 01/07/2015
Title: VP – President – Sales Engineering Company Name: Labconco Corporation

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





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OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations						
Company Eclipse Engineering, Inc. Name:						
Name: Chad Taylor, S.E. California License Number: S5479						
Mailing Address: 113 W Main, Ste. B Missoula, MT 59802						
Telephone: (406) 721-5733 Email: ctaylor@eeimt.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)						
☐ 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. BY: William Staehlin Analysis Experience Data Combination of Testing, Analysis, and/or Experience Data (Please Specify): List of Attachments Supporting the Manufacturer's Certification Test Report Drawings						
Other(s) (Please Specify):						
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY						
Signature: Date: 01/25/2016 Print Name: William Staehlin Title: SSE Condition of Approval (if applicable):						

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





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LABCONCO LOGIC+ SERIES CLASS II BIOLOGICAL SAFETY CABINET; SERIES 3023, 3024, 3025, 3026, 3034, AND 3036 OPM-0181-13







LABCONCO LOGIC+ BIOLOGICAL SAFETY CABINETS OPM-0181-13

PROJECT LOCATION: CALIFORNIA, USA

DATE: 12/18/15

SHEET TITLE

COVER & GENERAL NOTES

SHEET

1 OF 5

GENERAL NOTES - LABCONCO BIO CABINETS OPM

I. GENERAL REQUIREMENTS:

- THIS OSHPD PRE APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2013 CALIFORNIA BUILDING CODE (CBC). THE DEMAND (DESIGN FORCES) FOR USE WITH THE OPM SHALL BE BASED ON THE 2013 CBC.
- 2. DESIGN CRITERIA AND LIMITATIONS:

A.	SDS	\leq 1.5 AND \leq 2.5
B.	aP	1.0
C.	R_P	2.5
D.	z/h	\leq 1.0, \leq 0.5, AND 0
_	_	OF CONODETE AND

- E. Ω_0 2.5 (CONCRETE ANCHORAGE PER ASCE 7-10 SUPPLEMENT NO. 1, TABLE 13.6-1)

 3. THE DESIGN OF THE SUPPORTS AND ATTACHMENTS DEPICTED IN THIS PREAPPROVAL ARE ADEQUATE FOR
- 3. THE DESIGN OF THE SUPPORTS AND ATTACHMENTS DEPICTED IN THIS PREAPPROVAL ARE ADEQUATE FO SAND LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE SUBSTRATE WITH f'c ≥ 3000 PSI
- II. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD:
- VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC AND WITH THE DETAILS,
 MATERIAL, AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION
 SHOWN ON THE PREAPPROVAL DOCUMENTS.
- 2. VERIFY THAT THE PROJECT SPECIFIC VALUES OF SDS AND Z/h FOUND ON THE PREAPPROVAL DOCUMENTS ARE NOT EXCEEDED.
- VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS
 OF THE APPLICABLE POST-INSTALLED ANCHOR ICC-ES EVALUATION REPORT.
- 4. VERIFY THAT THE POST-INSTALLED ANCHORS COMPLY WITH THE MINIMUM SPACING AND EDGE DISTANCE REQUIREMENTS DEFINED IN THE PREAPPROVAL DOCUMENTS.
- 5. 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 6 x $H_{\rm ef}$ FROM THIS UNIT'S ANCHORS.
- 6. PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OTHER LOADS. VERIFY THE ADEQUACY OF THE STRUCTURE THAT SUPPORTS THE EQUIPMENT FOR THE LOADS IMPOSED ON THEM BY THE EQUIPMENT IN ADDITION TO ALL OTHER LOADS.

III. POST-INSTALLED ANCHORS:

 POST-INSTALLED ANCHORS FOR ATTACHING THE EQUIPMENT SUPPORT TO THE STRUCTURE SHALL BE KWIK BOLT TZ (ICC-ES ESR-1917; REISSUED MAY, 2015) BY HILTI AND SHALL COMPLY WITH THE FOLLOWING. REFERENCE THE PRODUCT ICC-ES EVALUATION REPORT FOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.

	ANCHOR DIAMETER	CONCRETE TYPE	CONCRETE f'c	MIN SLAB THICKNESS	TORQUE TEST LOAD	
S	OD# C	SAND LWC OR NWC	3000 psi	5" SLAB OR 3 ¼" CONC FILL OVER 2", MIN, 20GA METAL DECK PER FIGURE 5A OF ESR-1917	60 ft-lb	

REFERENCE THE DETAILS IN THE DRAWINGS FOR ANCHOR MINIMUM EFFECTIVE EMBEDMENT (hef, NOT NOMINAL EMBEDMENT), MINIMUM SPACING, AND MINIMUM EDGE DISTANCE.

OPM - 0 3.81 -THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, SEE DETAIL 3 ON SHEET 5.

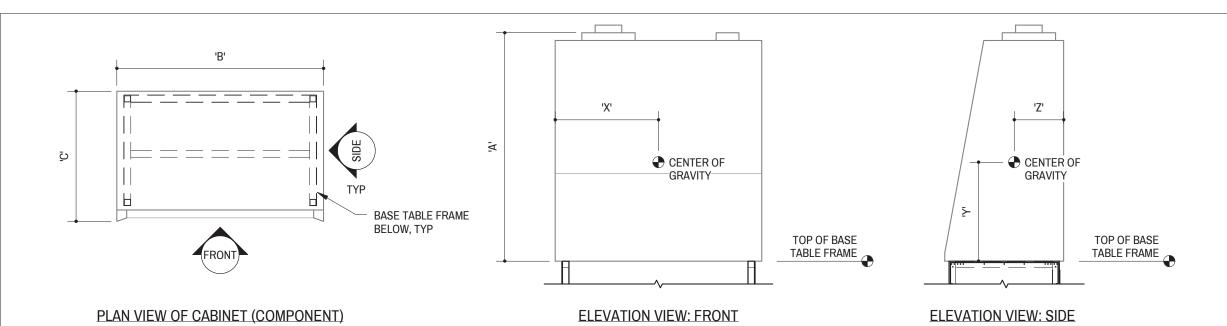
THRU-BOLTS IN CONCRETE IN ELEVATED CONCRETE SLABS:

- BY: WilliamA. StaBOLTS SHALL BE TORQUED BY % TURN OF THE NUT AFTER SNUG TIGHT CONDITION IS ACHIEVED;
 SNUG TIGHT IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED ELEMENTS INTO
- DATE: 01/26:/2 HOLES DRILLED IN THE CONCRETE SLAB SHALL BE 1/16" LARGER THAN THE BOLT DIAMETER.

 5. CARE AND CAUTION SHALL BE EXERCISED TO AVOID DAMAGING REINFORCING OR TENDONS IN THE EXISTING SLAB DURING DRILLING FOR ANCHORS.
 - EXPANSION ANCH<mark>ORS SH</mark>ALL BE LONG ENOUGH TO PROVIDE FULL ENGAGEMENT OF THE NUT AND WASHER FOR THE SPECIFIED EMBEDMENT DEPTH.

V. IESTING OF POST-INSTALLED CONCRETE ANCHORS:

- COMPLY WITH SECTION 1913A.7 OF THE 2013 CBC. AFTER A MINIMUM OF 24 HOURS HAVE ELAPSED SINCE INSTALLATION, TORQUE TESTING OF AT LEAST 50% OF THE POST-INSTALLED ANCHORS SHALL BE PERFORMED IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO OSHPD.
- 2. ACCEPTANCE CRITERIA: TORQUE WRENCH METHOD. ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE SPECIFIED TORQUE WITHIN ½ TURN OF THE NUT.
- V. COMPONENT, SUPPORT, AND ATTACHMENT MATERIALS
- 1. BASE TABLE SUPPORT FRAME TUBING: ASTM A513, TYPE 2; Fy = 32 KSI
- THREADED RODS AND STRUCTURAL STEEL ANGLES: ASTM A36; Fy = 36 KSI
- BOLTS: ASTM A307
- NUTS: ASTM A563
- HARDENED PLAIN WASHERS: ASTM F436
- SHEET METAL SCREWS: TEKS BY ITW BUILDEX, ICC-ES ESR-1976. SCREWS SHALL HAVE TEKS/5 DRILL POINT WITH DRILLING CAPACITY OF 0.125" OF MATERIAL, MINIMUM, AND 0.500", MAXIMUM. SCREWS ARE SPECIFIED THUS: 12-24 x 1 1/4" IS A #12 DIAMETER SCREW WITH 24 THREADS PER INCH AND 1 1/4" LONG.
- SHEET STEEL PLATES AND BENT PLATES (12GA THICKNESS OR LESS): ASTM A568; Fy = 33 KSI, MIN
- 8. BIO CABINET WALL/FLANGE AT INTERFACE WITH BASE TABLE SUPPORT FRAME: ASTM A276; Fy = 30 KSI









LABCONCO LOGIC+ **BIOLOGICAL SAFETY** CABINETS OPM-0181-13

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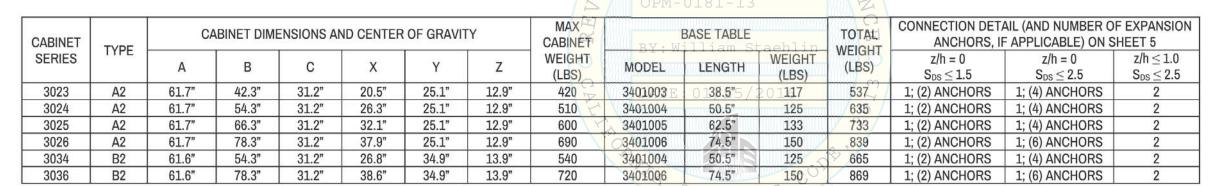
CABINET DIMENSIONS & **SCHEDULES**

SHEET

2 OF 5

CABINET DIMENSIONS

1/2" = 1'-0"



SCHEDULE NOTE:

CENTER OF GRAVITY AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHTS SHOWN.

TABLE FRAME POST VERTICAL (UPLIFT, Tu) AND HORIZONTAL (Vu) REACTIONS AT INTERFACE WITH CONCRETE STRUCTURE (1.0 x E, STRENGTH DESIGN)										
	z/h = 0		z/h = 0		z/h ≤ 0.5		z/h ≤ 1.0			
CABINET	$S_{DS} \leq 1.5$		$S_{DS} \leq 2.5$		$S_{DS} \leq 2.5$		$S_{DS} \leq 2.5$			
SERIES	Tu / POST	Vu / POST								
	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)		
3023	1200 *	310 *	2170 *	520 *	940	550 *	1400	830 *		
3024	1360 *	340 *	2470 *	570 *	1070	610 *	1590	910 *		
3025	1540 *	380 *	2780 *	630 *	1210	670 *	1790	1000 *		
3026	1720 *	418 *	3130 *	700 *	1360	740 *	2020	1120 *		
3034	1430 *	360 *	2580 *	590 *	1120	630 *	1660	950 *		
3036	1790 *	430 *	3240 *	720 *	1410	770 *	2090	1160 *		

SCHEDULE NOTE:

REACTION VALUES SUFFIXED WITH AN ASTERISK (*) INCLUDE THE OVERSTRENGTH FACTOR, Ω_0 .

