

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

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

OFFICE USE ONLY

APPLICATION #: OPM-0582

OSHPD Preapprova	l of	Manufacturer's	Certification	(OPM)
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Type: X New Renewal/Update

## **Manufacturer Information**

Manufacturer: Beckman Coulter

Manufacturer's Technical Representative: Nico Wedekind

Mailing Address: Sauerbruchstraße 50, Sauerbruchstraße 50, Ba 81377

Telephone: () -

Email: NWedekind@beckman.com

#### Product Information

Product Name: DxA Automation System - Part 2

Product Type: Other Electrical & Mechanical Components

Product Model Number: (Instrument: Model C44570) & (Transport: Model C42639)

General Description: Automated Blood Analysis System

#### **Applicant Information**

Applicant Compa	ny Name: EASE LLC.	CODY					
Contact Person:	Tiffany Tonn	BUILDING					
Mailing Address: 1515 FAIRVIEW AVE, STE 205, MISSOULA, MT 59801							
Telephone: (406)	) 541-3273	Email: tiffany@easeco.com					

Title:





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

Registered Design Professonal Preparing Engineering Recommendations							
Company Name: EASE LLC							
Name:     Kevin Paul Burke     California License Number:     CE57152							
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709							
Telephone: (909) 606-7622 Email: kevin@easeco.com							
OSHPD Special Seismic Certification Preapproval (OSP)							
Special Seismic Certification is preapproved under OSP OSP Number:							
Certification Method							
Testing in accordance with: ICC-ES AC156 FM 1950-16							
Other(s) (Please Specify):							
*Use of criteria other than those adopted by the California Building Standards Code, 2019 (CBSC 2019) 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 2019 may be used when approved by OSHPD prior to testing.							
X Analysis							
Experience Data							
Combination of Testing, Analysis, and/or Experience Data (Please Specify):							
CODE CODE							
OSHPD Approval BUILDING							
Date: 10/20/2021							

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\*
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

	EQUIRMENT ANCHORAGE SEISMIC ENGINEERING Office of Statewide Health Planning and Development PREAPPROVAL OF MANUFACTURER'S CERTIFICATION OPM-0582 THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE	5877 Pine Ave, Ste. 210 Chino Hills, CA. 91709 Phn: (909) 606-7622						
	ANUFACTURER: BECKMAN COULTER DXA SYSTEM - PART 2	Sheet: <u>1 of 14</u> Date: 10/20/21						
GI	ENERAL NOTES							
1.	THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2019 CBC. THE DEM	MANDS						
2.	(DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2019 CBC THIS DOCUMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER LISTED							
3.	SPECIFIC PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH CONSENT THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN							
	SEE DETAIL FOR APPLICABILITY							
4.	FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 2.20, $a_0 = 1.0$ , $b_1 = 1.5$ , $B_0 = 1.5$ , $z/b = 0$ AT CONCRETE SLAB, $z/b \le 1$ AT CONCRETE SLAB, ON METAL	DECK						
	WHERE SDS = 2.20, $a_p = 1.0$ , $I_p = 1.5$ , $R_p = 1.5$ , $z/h = 0$ AT CONCRETE SLAB, $z/h < 1$ AT CONCRETE SLAB ON METAL SEE FOLLOWING SHEETS FOR $\Omega_0$	DECK.						
	THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTU							
6. 7.	<ol> <li>ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.</li> <li>CONCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING. (i.e. z/h &lt; 1)</li> </ol>							
8.	CONCRETE SLAB DETAIL VALID FOR DEMANDS SHOWN AT OR BELOW GRADE. (i.e. z/h = 0)	、 <u> </u>						
9.	RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING							
	A. PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OT	HER LOADS.						
	B. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2019 CBC AND WITH THE DETAILS, MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHO PREAPPROVAL DOCUMENTS.	OWN ON THE						
	C. VERIFY THAT PROJECT SPECIFIC VALUES OF SDS & z/h RESULT IN SEISMIC FORCES (Eh, Ev ) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.							
	D. VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR REPORT AND THIS OPM.							
	E. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 2).	HAN ROBALAN						
	F. VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE UNIT ATTACHMENTS AND CHECK FOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN	No. 4197 EXP. 6-30-2022 C. 10/20/21						

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	BECKMAN COULTER							DES.	J. ROBE	RSON	SHEET		
							ЈОВ	NO. 11-2	015	2			
			DxA	SYS	STEM -	PART	2		DATE	10/2	0/21	o <sub>F</sub> 14 ₃⊮	ieets
10.			NCHORS:										
	Α.		HMENT IS TO E CORRESPONE		WITH THE ANCHOR REPORT.	S LISTED BEL	.OW AND I	NSTALLED	AS DESCR	BED			
		Anchor iameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension Test	
		3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	2"	6.75"	12"	See Detail "A"	30 FT-LB	N/A	
		1/2"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	3.25"	9.75"	24"	See Detail "A"	50 FT-LB	N/A	
		5/8"	Normal Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	3.125"	6"	24"	5"	40 FT-LB	3318 lb	
		5/8"	Normal Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	3.125"	8"	28"	5"	40 FT-LB	3739 lb	
	B.	CONCR ADJACE EDGE D	ETE SLAB ED ENT DETAIL FO DISTANCES.	ges, 12 o Dr additi	For up to a maxin R 24" Away minimu Onal minimum ali	JM (i.e CORN OWABLE CO	NER). SEE NCRETE	E CO	14 D - 20			1.5 x EDGE DISTANCES (SEE SCHEDULE)	
	EDGE DISTANCES. C. TESTING AND SPECIAL INSPECTION OF EXPANSION ANCHORS SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCYOPM-0582 EMPLOYED BY THE FACILITY OWNER PER CBC 1704A & 1910A.5 AND CAC 7-149. ALL REPORTS SHALL BE SENT TO THE INSPECTOR OF RECORD, OWNER AND THE ARCHITECT OR ENGINEER IN												
		RESPONSIBLE CHARGE. (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											
		· · /	CEPTANCE C		RN				X EDGE				
	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. <u>TYPICAL CONCRETE EDGE DETAIL</u>												
	OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.     (SLAB ON GRADE ONLY)      TORQUE TEST: THE APPLICABLE TORQUE MUST BE ACHIEVED WITHIN     THE FOLLOWING LIMITS: WEDGE TYPE : 1/2 TURN OF THE NUT												
		(iii) IF A	ANY ANCHOR	FAILS, TE	ST ALL ANCHORS.								
	D.				TEEL REINFORCING		LE SLAB						
	E.	PROVID	E FOR FULL T	HREAD E	NGAGEMENT OF NU	JT & WASHER	₹.						
11.	BOLT	S THROU	JGH CONCRET	E ON ME	TAL DECK					<b>\</b>			
	A.	tight ( Requif	THE SNUG-TIC RED TO BRING	GHT CONE THE CON	' 3/4 TURN OF THE I DITION IS DEFINED , INECTED PLIES INT ESS OTHERWISE NO	AS THE TIGHT O FIRM CONT	TNESS	3		$\left( \right)$	Juatra	HAN ROBIN	FU
	B. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE												
	C. (HOLE SIZE = BOLT SIZE + 1/16) FOR CONCRETE.												
	D. THROUGH-BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING (THROUGH BOLTS WITH STEEL TO STEEL CONNECTION IN TENSION DO NOT REQUIRE TENSION TESTING) IN ACCORDANCE WITH REQUIREMENTS FOR POST-INSTALLED ANCHORS.								*/				























