

APPLICATION FOR OSHPD PREAPPROVAL OF	OFFICE USE ONLY						
MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #:	OPM-0455-19					
OSHPD Preapproval of Manufacturer's Certification (OPM)							
Type: New Renewal Update to Pre-CBC 2013 O	PA Number:						
Manufacturer Information							
Manufacturer: Sysmex America Inc.							
Manufacturer's Technical Representative: Nick Honda							
Mailing Address: 577 Aptakisic Road, Lincolnshire, IL. 60069							
Telephone: On File							
Product Information	MA						
Product Name: XN-1500 Analyzer System							
Product Type: Other electrical and mechanical components 455-19	1ZC						
Product Model Number: N/A							
General Description: Automated Hematology Analyzer	O						
DATE: 12/16/2019	67						
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Applicant Information	1						
Applicant Company Name: EASE Co.	302						
Contact Person: Jonathan Roberson, S.E.							
Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA. 91709							
Telephone: (909) 606-7622 Email: J.Robe	rson@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:	D	Date: 11/6/17					
Title: Principal Engineer Company Name: EASE	Co.						
	1	OCUDD					
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"	AMAAAA	OSHPD					
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 12/16/15)							
		Page 1 of 2					



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):							
*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: 12/16/2019							
Combination of Testing, Analysis, and/or Experience Data (Please Specify):							
PAR STREET							
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: 12/16/2019							
Print Name: Jeffrey Kikumoto							
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 "Equitable Healthcare Accessibility for California" OSH-ED-700 (REV 12/16/15)							

Page 2 of 2

EQUIRMENT ANCHORAGE 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-0455-19 THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE							
	UFACTURER: SYSMEX PMENT NAME: XN-1500 SERIES	Sheet: <u>1 of 8</u> Date: 12/16/19					
1. T (I 2. T 3. T 5. T 6. A 7. C	ERAL NOTES HIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2019 CBC. THE DE DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2019 CBC. HIS DOCUMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER LISTE PECIFIC PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH CONSEN HIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN EE DETAIL FOR APPLICABILITY DRCES PER ASCE 7-16 SECTION 13.3,1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, /HERE SDS = 1.80, $a_p = 1.0$, $I_p = 1.5$, $R_p = 1.5$, $z/h \le 1$ AT CONCRETE SLAB ON METAL DECK FOR UNIT XN-1500 + > EE FOLLOWING SHEETS FOR Ω_{0} /HERE SDS = 2.20, $a_p = 1.0$, $I_p = 1.5$, $R_p = 1.5$, $z/h \le 1$ AT CONCRETE SLAB FOR BOTH UNITS & $z/h \le 1$ AT CONCRE ECK. FOR UNIT XN-1500 (WG-80) ONLY. SEE FOLLOWING SHEETS FOR Ω_{0} HIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCT LL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGT ONCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING. ONCRETE SLAB DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION AT OR BELOW GRADE. (i.e. $z/h = 0$)	D ABOVE FOR THE T. N 1.80 & 2.20. (G-17. TE SLAB ON METAL URE. IH DESIGN.					
A B C D	 ESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OF 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 SHORE PREAPPROVAL DOCUMENTS. VERIFY THAT PROJECT SPECIFIC VALUES OF SDS & z/h RESULT IN SEISMIC FORCES (Eh, Ev) THAT DO NOT EXCEED THE VALUES ON THE DETAILS. VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR AND THIS OPM. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 2). 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 6hef FROM THIS UNIT'S ANCHORS. 						

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Ē	EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.EquipmentAnchorage.com													
	SYSMEX						DE8.	J. ROBE	ERSON	SHEET				
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	XN-1500 SERIES						DATE	= 12/16	3/19	of 8	SHEETS	;		
10. EXPANSION ANCHORS:														
			CHMENT IS TO	NDING IC	ADE WITH THE AN			•) AS DESCR	IBED			
		Anchor ameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tens Test	ion	
		1/2"	Sand Light Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	2"	6.75"	12"	See Detail "A"	40 FT-LB	N/A		
		1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	3.25"	3"	24"	6"	40 FT-LB	2174 lb		
	B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 24" AWAY MINIMUM (i.e CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.						24" (MIN)) SP -						
	C. TESTING OF EXPANSION ANCHORS PER 2019 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. BY: Jeffrey Kikumoto							 						
			CEPTANCE C				-			2	SP = BOLT SPACING			
	DIRECT TENSION TEST: THE ANCHOR SHOULD HAVE NO2 0 1 9 OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER DECOMES LOADE						onii							
		-	WITHIN THE NUT	E FOLLOV	WING LIMITS: WED	GE TYPE : 1	/2 TURN (SETHE						
		(iii) IF /	ANY ANCHOF	₹ FAILS, T	TEST ALL ANCHOR	₹S.								
D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING CONCRETE EXPANSION ANCHORS.														
	E.	PROVI	DE FOR FULL	_ THREAC	D ENGAGEMENT O	F NUT & WA	SHER.							
11. B	SOLT	S THRO	UGH CONCR	ETE ON I	METAL DECK									
		TIGHT REQUI	(THE SNUG-1 RED TO BRIN	TIGHT CO	BY 3/4 TURN OF T DNDITION IS DEFIN ONNECTED PLIES NLESS OTHERWIS	NED AS THE ⁻ S INTO FIRM (TIGHTNES	SS		\geq	Anatha) Nali	ŧ.
					ALL BE 1/16" LARGI /16) FOR CONCRE ⁻		IT SIZE					THEN ROBIN		•
	 C. 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. 									No. 4197 EXP. 6-30-2020 r. 12/16/19 PUCTUR OF CALLED	NER			











