

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI PREAPPROVAL	OFFICE USE ONLY
MANUFACTURER'S CERTIFICATION (OPN	UF
HCAI Preapproval of Manufacturer's Certification (OP	M)
Type: X New Renewal/Update	
Manufacturer Information	
Manufacturer: Sysmex America, Inc.	
Manufacturer's Technical Representative: Jill Crist	
Mailing Address: 577 Aptakisic Road, Lincolnshire, IL 60069	
Telephone: (215) 962-8236 Email: Cris	stJ@Sysmex.com
EDFORCE	DE COMP
Product Information	
Product Name: Sysmex XN-1000 on Benchtop	0714
Product Type: Automated Hematology Analyzer	0/14
Product Model Number: XN-1000 RV William	Staehlin
General Description: Blood Analyzer	
P DATE: 11/	25/2024
Applicant Information	
Applicant Company Name: Sysmex America, Inc.	
Contact Person: Jill Crist	DING
Mailing Address: 577 Aptakisic Road, Lincolnshire, IL 60069	
Telephone: (215) 962-8236 Email: Cris	stJ@Sysmex.com

"A healthier California where all receive equitable, affordable, and quality health care"

HCAi

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

Title: Senior Manager IVD Product Marketing



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

Registered Design Professonal Preparing Engineering Recommendations				
Company Name: CYS STRUCTURAL ENGINEERS, INC.				
Name: Dieter Siebald California License Number: S4346				
Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, CA 95833				
Telephone: (916) 920-2020 Email: dieters@cyseng.com				
HOALO CARACTER Decomposed (OOD)				
HCAI Special Seismic Certification Preapproval (OSP)				
Special Seismic Certification is preapproved under OSP OSP Number:				
EOR CODE CO.				
Certification Method				
Testing in accordance with:				
Other(s) (Please Specify):				
*Use of criteria other than those adopted by the California Building Standards Code, 2022 (CBSC 2022) 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 2022 may be used when approved by HCAI prior to testing.				
X Analysis				
Experience Data DATE: 11/25/2024				
Combination of Testing, Analysis, and/or Experience Data (Please Specify):				
COSE.				
HCAI Approval				
Date: 11/25/2024				
Name: William Staehlin Title: Senior Structural Engineer				
Condition of Approval (if applicable):				

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STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



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NOTES:

- 1. THESE DRAWINGS ARE PREPARED FOR SYSMEX AMERICA, INC., LINCOLNSHIRE, ILLINOIS.
- 2. THE CONTRACTOR & INSPECTOR OF RECORD SHALL OBTAIN A COPY OF THIS PRE—APPROVAL FROM THE DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION (HCAI) PRE—APPROVAL PROGRAMS WEBSITE.
- 3. THIS PRE-APPROVAL COVERS THE SUPPORTS & ATTACHMENTS OF THE EQUIPMENT TO THE SUPPORTING STRUCTURE. THE EQUIPMENT, SUPPORT & ATTACHMENT HARDWARE ARE SUPPLIED BY THE MANUFACTURER.

DATE: 11/25/2024



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CYS STRUCTURAL ENGINEERS, INC.

2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO. CA 95833 TEL (916) 920-2020 Date: www.cyseng.com Page:

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GENERAL NOTES:

- 1. THIS HCAI PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2022. THE DEMAND (DESIGN FORCES) FOR USE W/ THIS OPM SHALL BE BASED ON THE CBC 2022.
- 2. IT IS THE RESPONSIBILITY OF THE SEOR FOR A SITE SPECIFIC PROJECT TO VERIFY:
 - THE ADEQUACY OF THE NEW OR EXISTING STRUCTURE TO RESIST THE FORCES & WT SPECIFIED FOR EA EQUIP IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS AS REQ.
 - THAT THE INSTALLATION IS IN CONFORMANCE W/ THE CBC 2022 & W/ THE DETAILS SHOWN IN THIS PRE-APPROVAL.
 - THAT THE ACTUAL EQUIP'S WT, CENTER OF GRAVITY (CG) LOCATION, ATTACHMENT LOCATIONS, ATTACHMENT DETAILS, & THE MATERIAL & GAUGE OF THE EQUIP WHERE ATTACHMENTS ARE MADE, AGREE W/ THE INFO SHOWN ON THE PRE-APPROVAL DOCUMENTS.
 - THAT THE SURFACE TO WHICH THE EQUIP IS ANCHORED SHALL MEET THE REQUIREMENTS OF THIS



SHEET TITLE: GENERAL NOTES



CYS STRUCTURAL ENGINEERS, INC.

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м	DE	ЭΓ	ᄄ	ıAı	IU	INO.	

ABV	ABOVE	NO. (#)	NUMBER OR POUNDS
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	OD ""	OUTSIDE DIAMETER
CBC	CALIFORNIA BUILDING CODE	OP	OPERATING

CG CENTER OF GRAVITY OPM HCAI PRE-APPROVAL OF

CENTERLINE MANUFACTURER'S CERTIFICATION CONN CONNECTION PG **PAGE** COORD COORDINATE ₽ **PLATE** DTL(S) DETAIL(S) REQ **REQUIRED**

EXISTING CONDITION (E) **SEOR** STRUCTURAL ENGINEER OF RECORD

EA **EACH** SS STAINLESS STEEL

ELEV ELEVATION STL STEEL EQ **EQUAL** THK THICK/THICKNESS

EQUIP EQUIPMENT TYP TYPICÁL SPECIFIED YIELD STRENGTH OF Fy W/ WITH

REINFORCING, PS OF STEEL, KSI DEPARTMENT OF HEALTH CARE ACCESS COMPONENT OPERATING WEIGHT αW

WT WEIGHT

AND INFORMATION

INCH IN (")

HCAI

INFO INFORMATION

KSI KIPS PER SQUARE INCH

LBS POUNDS

LOAD & RESISTANCE FACTOR DESIGN **LRFD**

MAX **MAXIMUM** MIN **MINIMUM MILLIMETER** mm MTL METAL

BY: William Staehlin





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DESIGN CRITERIA:

1. SUPPORT & ATTACHMENT DESIGN IS PER 2022 CBC AT LRFD LEVEL FORCES.

OTHER MECHANICAL OR ELECTRICAL COMPONENTS PER TABLE 13.6-1 OF ASCE 7-16 INCL SUPPLEMENT #1 & ERRATA:

$$a_p = 1.0$$

$$R_{\rm p} = 1.5$$

$$I_{p} = 1.5$$

ABOVE GRADE:

$$S_{DS} \le 1.300$$
 $F_p = 1.300 W_p z/h \le 0.75$
 $S_{DS} \le 1.625$ $F_p = 1.300 W_p z/h \le 0.50$

AT OR BELOW GRADE:

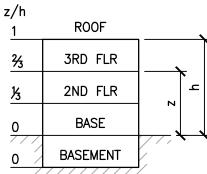
$$S_{DS} \le 2.500$$
 $F_{p} = 1.125$ W_{p} $z/h \le 0.00$

WP AS NOTED ON DRAWINGS

LOAD COMBINATIONS

$$(0.9 - 0.2 S_{DS})$$
 D $- F_{p}$ (FOR MAX TENSION)
(1.2 + 0.2 S_{DS}) D + F_{p} (FOR MAX COMPRESSION)

THIS PRE-APPROVAL MAY BE USED ONLY AT GEOGRAPHICAL LOCATIONS IN THE STATE OF CALIFORNIA WHERE SDS & z/h VALUES RESULT IN AN FP FORCE THAT IS LESS THAN OR EQ TO THE VALUE NOTED ABY Y: William Staehlin



BLDG ELEV

"z/h" IS A RATIO OF THE HEIGHT IN THE STRUCTURE THAT THE COMPONENT HAS BEEN ANCHORED, TO THE OVERALL HEIGHT OF THE STRUCTURE. FOR EXAMPLE, A z/h OF 1.0 STATES THAT THE COMPONENT IS CAPABLE OF BEING INSTALLED ANYWHERE WITHIN THE STRUCTURE.





SHEET TITLE: DESIGN CRITERIA



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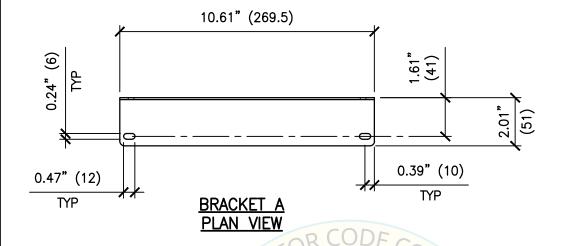
OPM-0714: Reviewed for Code Compliance by William E Staehlin

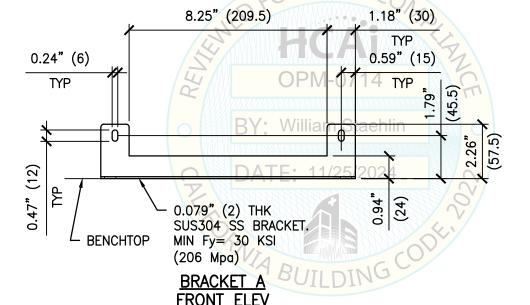
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SYSMEX XN-1000 ON BENCHTOP sysmex Lighting the way Ζ (249.<u>5)</u> 0.20" BRACKET A. SEE PG 6 NOTES: (5)DIMS SHOWN ARE TO & OF BRACKET HOLES. SEE PG 9 FOR ADHESIVE PAD (408)9.29" (490) FASTENING DETAIL. XN2000 OPMs\ACAD\Task 01_XN1000 Benchtop\S1_XN1000.dwg Time:Nov20,2024-11:28am Login:camachom Dimscale:1 LTScale:6 16.85" FRONT 90.99 ₽_{CG} (176.6)6.83 0.47" BRACKET B. 2"x3" STP FASTENERS +3M (12)SEE PG 7 ADHESIVE PADS, TYP OF 4. 3.52" 10.37" 15.79" INSTALL PER MFR INSTRUCTIONS (89.5)(263.5)(401)PLAN VIEW **FRONT ISOMETRIC** 29.69" (754) 25.28" (642) 16.26" (413) 14.20" 11.08" (281.4)(360.6)(855)33.66" BRACKET B CG OP WT **BEYOND** CG $W_{p} = 172#$ 8" STP 12.76" (78kg) **STRAP** 12.89" FOR BRACKET SUPPORT FOOT, 16.06 XN1000 ATTACHMENT, TYP WHERE 22.32" SEE PG 8 **OCCURS** SIDE ELEV ATE OF CALIFO FRONT ELEV SHEET TITLE: SYSMEX XN-1000 ON BENCHTOP :\Jobs23\23029 **PLAN VIEW & ELEVATIONS** CYS STRUCTURAL ENGINEERS, INC. Job No: 23029.01 (916) 920-2020 Date: 10-29-2024 TEL 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 www.cyseng.com Page: 5 of 9









2.01"
(51)
BRACKET A
SIDE FLEV

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SHEET TITLE: BRACKET DETAILS

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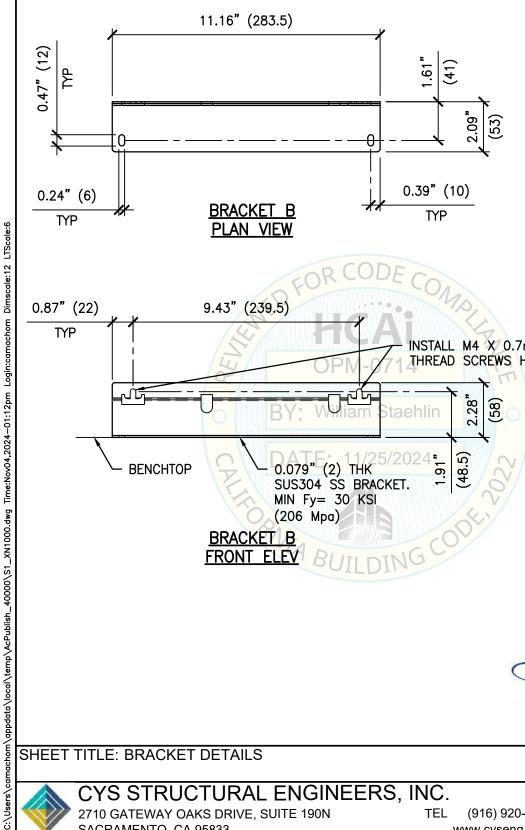
2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 TEL (916) 920-2020 Date: www.cyseng.com Page:

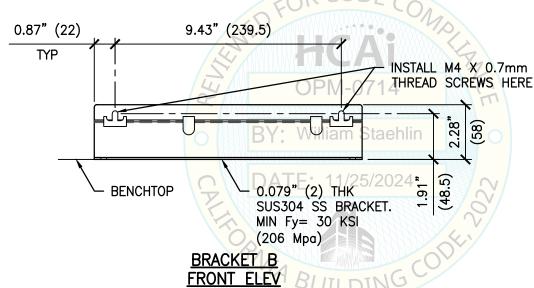
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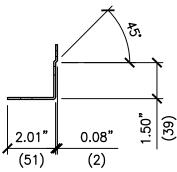
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BRACKET B



SHEET TITLE: BRACKET DETAILS



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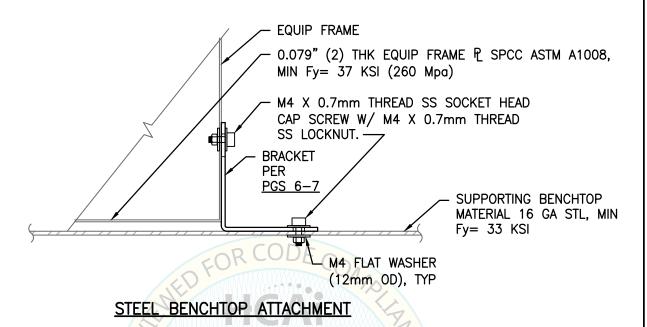
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EQUIP FRAME

O.079" (2) THK EQUIP FRAME P SPCC ASTM A1008,
MIN Fy= 37 KSI (260 Mpa)

M4 X 0.7mm THREAD SS SOCKET HEAD

CAP SCREW W/ M4 X 0.7mm THREAD

SS LOCKNUT.

34" MIN THICK ENGINEERED WOOD
BENCHTOP, BY OTHERS. (OTHER
MATERIALS SUCH AS PHENOLIC
PANELS, THERMOPLASTIC LAMINATE
& MDF W/ VENEER MUST BE
APPROVED BY SEOR)

PLYWOOD BENCHTOP ATTACHMENT

SHEET TITLE: BENCHTOP ATTACHMENT DETAILS

BRACKET PER

PGS 6-7



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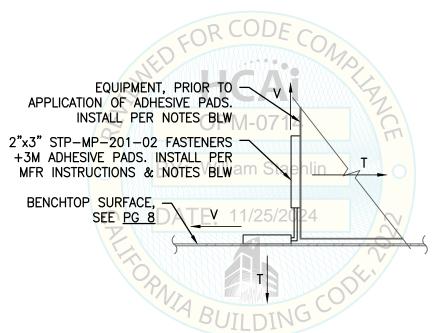
M4 FLAT WASHER

(12mm OD), TYP

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NOTE:

FOLLOW MFR'S INSTRUCTIONS FOR ADHESION OF FOAM ADHESIVE TO BOND SURFACE AS FOLLOWS: LIGHTLY ABRADE THE BOND AREA OF SURFACES (POWDER-COATED STL, SS, PHENOLIC, THERMOPLASTIC LAMINATE) W/ A SCOTCHBRITE 7447 PAD & THEN CLEAN W/ A 70:30 ISOPROPYL ALCOHOL (IPA)/WATER SOLUTION, ALLOWED TO DRY PRIOR TO APPLICATION OF THE ADHESIVE PADS



SHEET TITLE: STP FASTENER TO BENCHTOP CONNECTION DETAIL



CYS STRUCTURAL ENGINEERS, INC.

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