

# OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OPM-0426

OSHPD Preapprova	I of Manufacturer's	<b>Certification (OPM)</b>
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Type: New X Renewal/Update

## **Manufacturer Information**

Manufacturer: Intermetro Industries

Manufacturer's Technical Representative: Willard Sickles

Mailing Address: 651 N. Washington St., Wilkes-Barre, PA 18705

Telephone: (570) 706-3121

Email: Bill.Sickles@metro.com

## **Product Information**

Product Name: FREE STANDING, FLOOR ANCHORED, ADJUSTABLE SHELVING SYSTEM

Product Type: "Super Erecta" Family wire and solid shelving and "MetroMax Q" and "MetroMax i" shelving

Product Model Number: A

General Description: FREE STANDING, FLOOR ANCHORED, ADJUSTABLE SHELVING SYSTEM

## **Applicant Information**

Applicant Company Name: Intermetro Industries

Contact Person: Willard Sickles

Mailing Address: 651 N. Washington St., Wilkes-Barre, PA 18705

Telephone: (570) 706-3121 Email: Bill.Sickles@metro.com

Title: Manager Product Safety

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

OSHP



# OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

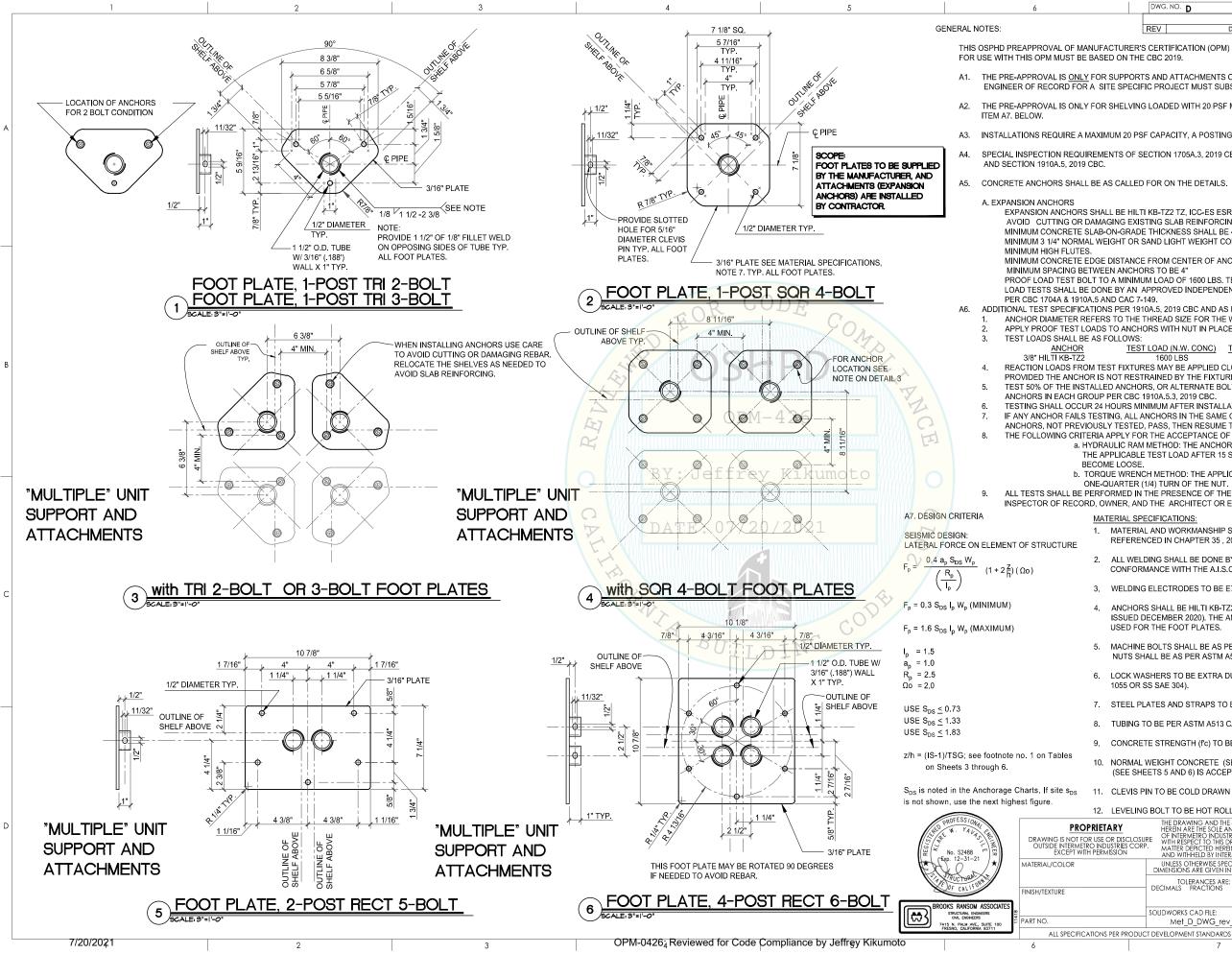
Registered Design Professonal Preparing Engineering Recommendations
Company Name: BROOKS RANSOM ASSOCIATES
Name:     Klare Yavasile     California License Number:     S2488
Mailing Address: 7415 North Palm, Suite 100, Fresno, CA 93711
Telephone:       (559) 449-8444       Email:       klare@brooksransom.com
OSHPD Special Seismic Certification Preapproval (OSP)
Special Seismic Certification is preapproved under OSP         OSP Number:
$\sim CODF$
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   DATE: 07/20/2021
Combination of Testing, Analysis, and/or Experience Data (Please Specify):
CODE CODE
OSHPD Approval
Date: 7/20/2021

Name: Jeffrey Kikumoto

Title: Senior Structural Engineer

Condition of Approval (if applicable):

"Access to Safe. Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"	AM AMA	OSHPD
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY	A with he had a second	-



	DWG. NO. D	SHT. 1 0	DF 1	REV.VER			8				,
	REV	DESCRIPTIO	N	REVISIO	NS DATE	DWN	СНК	PD	MFG	CRN#	
	S CERTIFICATION (OPM) CBC 2019.	IS BASED	ON	THE CBC 201	9. THE DEM	MAND (DI	ESIGN	FORC	ES)		
	S AND ATTACHMENTS C										
VINC	G LOADED WITH 20 PSF I	MAXIMUM	I AN[	D LOCATED IN	AREAS WI	ITH AN S	S <sub>DS</sub> AS	NOTE	) IN		A
0 PS	F CAPACITY, A POSTING	SHALL B	E RE	EQUIRED WHIC	H STATES	6 "MAX. L	OADIN	G 20 P	SF".		
OF S	ECTION 1705A.3, 2019 CI	BC, AS AP	PLIE	ES TO CONCRE	TE ANCH	OR BOLT	INSTA	LLATIO	N		
LED.	FOR ON THE DETAILS.										
EXIS RADE	'I KB-TZ2 TZ, ICC-ES ESR STING SLAB REINFORCIN E THICKNESS SHALL BE SAND LIGHT WEIGHT CO	IG. 4".				EL DECK	WITH	1 1/2"			
NCE	E FROM CENTER OF ANC										
NIMU	NRS TO BE 4" JM LOAD OF 1600 LBS. TI APPROVED INDEPENDE№ 149.				OYED BY T	HE FACI	LITY O	WNBEI	۲		
NCH	10A.5, 2019 CBC AND AS THREAD SIZE FOR THE V ORS WITH NUT IN PLACE	NEDGE AI		ORS							
	1600 LBS	1	1030			ALLATIO 25 FT-I		QUE			В
REST	RES MAY BE APPLIED CL RAINED BY THE FIXTUR RS, OR ALTERNATE BOL 1910A.5.3, 2019 CBC.	Ε.				ONE-HA	LF OF	THE			
S MI	NIMUM AFTER INSTALLA NCHORS IN THE SAME ( PASS, THEN RESUME 1	CATEGOR				20 CONSI	ECUTI\	/E			
RAM ABLE	R THE ACCEPTANCE OF I METHOD: THE ANCHOR E TEST LOAD AFTER 15 S	R SHOULD	HA\	/E NO OBSER\				IOULD	NOT		
OSE. REN(	CH METHOD: THE APPLIC	CABLE TE	ST T	ORQUE MUST	BE REACH		HIN				
er ( D <b>i</b> n	1/4) TURN OF THE NUT. THE PRESENCE OF THE D THE ARCHITECT OR E	SPECIAL	. INS	PECTOR. ALL I	REPORTS			г то т	HE		
ERIA	<u>ECIFICATIONS:</u> LL AND WORKMANSHIP S NCED IN CHAPTER 35 , 2		NFO	RM TO AISC 36	60-16 AND	TO THE ,	APPLIC	ABLE	STANDA	ARDS	
	DING SHALL BE DONE B MANCE WITH THE A.I.S.C						IE IN				
DINC	G ELECTRODES TO BE E	70XX OR	E308	3-16 FOR SS.							С
ED [	S SHALL BE HILTI KB-TZ DECEMBER 2020). THE A R THE FOOT PLATES.								-4266,		
	E BOLTS SHALL BE AS PE HALL BE AS PER ASTM A						ONDIT	ION C	Ν.		
	ASHERS TO BE EXTRA DI SS SAE 304).	UTY HELI	CAL	SPRING STEE	L AS PER	ASME/AN	NSI B 1	3.21.1.	(CS SAE	E	
EL PI	LATES AND STRAPS TO I	BE PER A	STM	A36 OR ASTM	A240 TYP	E 304 WI	TH Fy =	30 KS	I MIN. U.	N.O.	
NG <sup>-</sup>	TO BE PER ASTM A513 C	ARBON S	TEE	L OR ASTM A2	49 304 STA	INLESS	STEEL	W/ Fy:	=30 KSI	MIN.	
	TE STRENGTH (fc) TO B							стс			
SH	WEIGHT CONCRETE (S EETS 5 AND 6) IS ACCEP	TABLE FO	OR A	NCHORAGE.							
	PIN TO BE COLD DRAWN G BOLT TO BE HOT ROLI								IN.		D
	THE DRAWING AND THE HEREIN ARE THE SOLE AN OF INTERMETRO INDUSTR WITH RESPECT TO THIS DI	SUBJECT MA	ATTER	DEPICTED OPERTY GHTS	nterM		a "	North W	o Industrie ashingtor	Street	
COR	AND WITHHELD BY INTER	N ARE EXPRI	ESSLY	RESERVED				Wilkes-	Barre, PA v.metro.c	18705	
	UNLESS OTHERWISE SPEC DIMENSIONS ARE GIVEN IN TOLERANCES ARE:	INCHES		APPROVALS // DA		FREE ST INTERME	TANDIN	G, FLO	OR ANCH		
	DECIMALS FRACTIONS	ANGLES	_	SOC // 08-31-2	SIZE	SW DWG	. NO.		SHT.	REV . VER	
	SOLIDWORKS CAD FILE: Met_D_DWG_rev		PD	-	D SCA	298 LE :	58/		1 OF 6	 RAWING	
ODU	CT DEVELOPMENT STANDARDS		MFG		A	s noted		DO NOT DO NO	NERATED DE MANUALLY T SCALE DR/	UPDATĒ. AWING.	

8 3 of 8

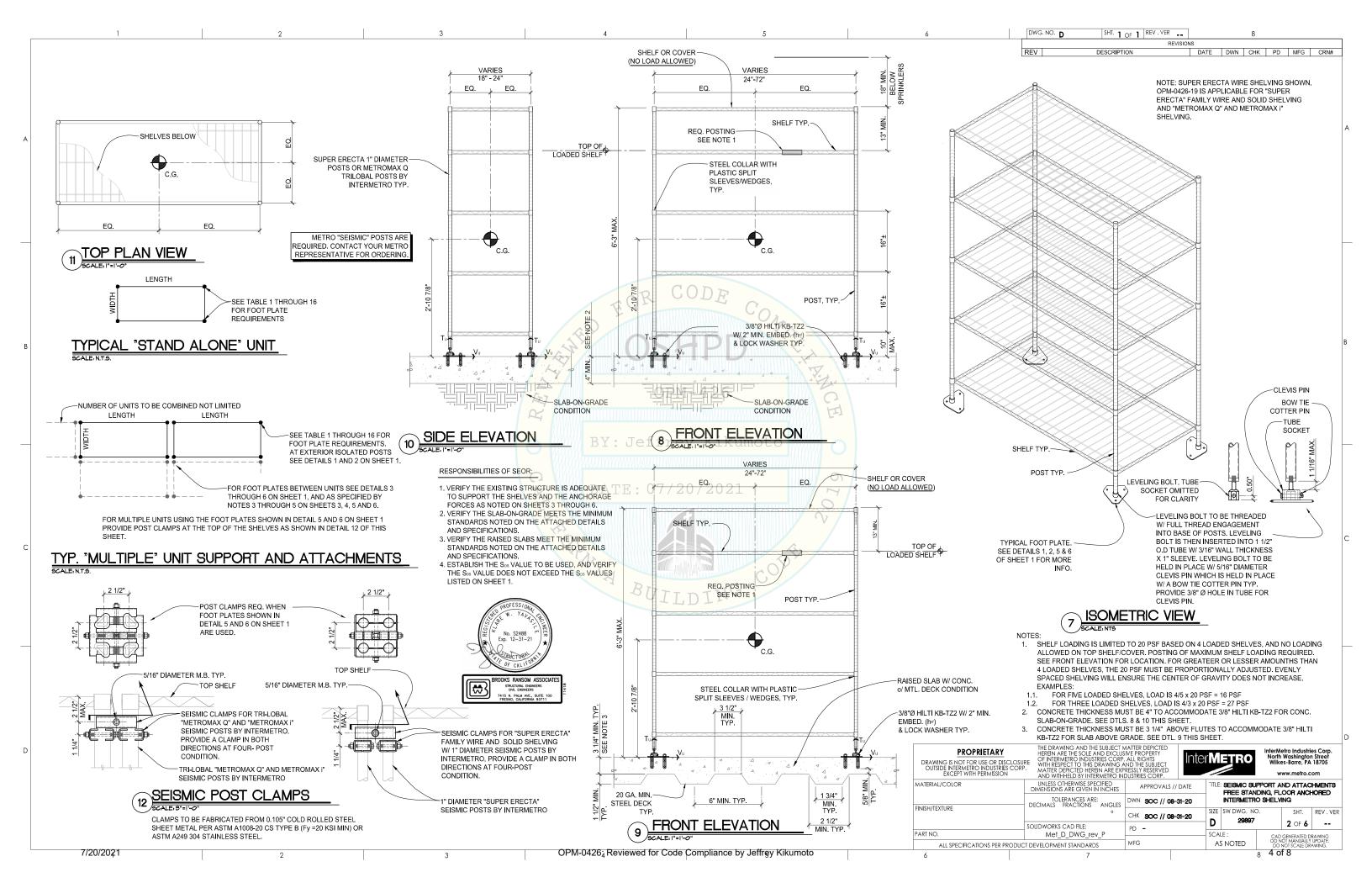
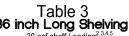


Table 3 Shelving $2.34.5$ STORY RATIO': (B-1)/TSG $\leq 0.4$ $\leq 0.6$ $S_{05} \leq 0.73$ BOLT2 BOLTBOLT2 BOLTSos $\leq 0.73$ BOLT2 BOLTSos $\leq 0.73$ BOLT2 BOLTSos $\leq 1.33$ BOLT3 BOLTColspan="2">Colspan="2"Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2">Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"<	≤ 0.8 2 BOLT 2 BOLT 2 BOLT	≤ 1.0 2 BOLT 2 BOLT 2 BOLT 2 BOLT
≤ 0.4 ≤ 0.6 $S_{05} ≤ 0.73$ 2 BOLT 2 BOLT 2 BOLT 2 BOLT 3 BOLT 2 BOLT $S_{05} ≤ 1.33$ 3 BOLT 3 BOLT	2 BOLT 2 BOLT	2 BOLT 2 BOLT
Sps ≤ 0.73           2 BOLT         2 BOLT           2 BOLT         2 BOLT           2 BOLT         2 BOLT           Sps ≤ 1.33         3 BOLT	2 BOLT 2 BOLT	2 BOLT 2 BOLT
BOLT         2 BOLT           2 BOLT         2 BOLT           2 BOLT         2 BOLT           3 BOLT         3 BOLT	2 BOLT	2 BOLT
BOLT         2 BOLT           8 BOLT         2 BOLT           8 BOLT         3 BOLT	2 BOLT	2 BOLT
BOLT         2 BOLT           s₀s ≤ 1.33         3 BOLT		
S <sub>DS</sub> ≤ 1.33 <b>BOLT</b> 3 BOLT	2 BOLT	2 BOLT
BOLT 3 BOLT		
	3 BOLT	3 BOLT
BOLT 3 BOLT	3 BOLT	3 BOLT
BOLT 3 BOLT	3 BOLT	3 BOLT
S <sub>DS</sub> ≤ 1.83		
BOLT 3 BOLT		4 BOLT
		4 BOLT
BOLT 3 BOLT	4 BOLT	4 BOLT
<b>T</b> 11 4		
lable 4		
psf shelf Loading <sup>23,4,5</sup>		
		]
	≤ 0.8	≤ 1.0
		2 BOLT
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	2 BOLI	2 BOLT
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		3 BOLT
BOLT 3 BOLT	3 BOLT	3 BOLT
	0.0021	
S <sub>DS</sub> ≤ 1.83		
S <sub>DS</sub> ≤ 1.83 <b>BOLT</b> 3 BOLT	4 BOLT	4 BOLT
	4 BOLT 4 BOLT	4 BOLT 4 BOLT
	BOLT         3 BOLT           Table 4 Long Shelving osf shelf Loading <sup>23,45</sup> Store 1,0,179G           STORY RATIO <sup>1</sup> : (S-1)/T9G         ≤ 0.4           ≤ 0.4         ≤ 0.6           Spis ≤ 0.73         BOLT           BOLT         2 BOLT           BOLT         2 BOLT           BOLT         2 BOLT           BOLT         3 BOLT           BOLT         3 BOLT	BOLT3 BOLT3 BOLTBOLT3 BOLT3 BOLTBOLT3 BOLT3 BOLTBOLT3 BOLT4 BOLTTable 4 Long Shelving st shelf Loading234.5STORY RATIO1: (IS-1)/TSGSTORY RATIO1: (IS-1)/TSG $\leq 0.4$ $\leq 0.6$ $\leq 0.8$ System 2BOLT2 BOLTBOLT2 BOLTBOLT2 BOLTBOLT2 BOLTBOLT2 BOLTBOLT2 BOLTBOLT2 BOLTBOLT3 BOLTBOLT3 BOLTBOLT3 BOLTBOLT3 BOLTBOLT3 BOLT3 BOLT3 BOLT3 BOLT3 BOLT

2 3

1

4	5	6	DWG. NO. D SHT. 1 OF 1 REV. VER	8		
			REVISIONS			
			REV DESCRIPTION	DATE DWN CHK PD MFG CRN#		



# Base Anchorage Requirement for Acceptable Anchorage Configurations at Various Story Locations for Shelving Lengths Shown Normal Weight Concrete Only

Table 5 48 inch Long Shelving 20 psf shelf Loading<sup>2,3,4,5</sup>

SHELF			STORY RATIO	) <sup>1</sup> : (IS-1)/TSG						
WIDTH	= 0,0	≤0.2	≤0,4	≤ <b>0,6</b>	≤ <b>0.8</b>	≤ <b>1.0</b>				
S <sub>DS</sub> ≤0.73										
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT				
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT				
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT				
			S <sub>DS</sub> <u>≤</u> 1.33			-				
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT				
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT				
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT				
			S <sub>DS</sub> ≤ 1.83			-				
18	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	N.G.				
21	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	N.G.				
24	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	N.G.				

# Table 654 inch Long Shelving

20 psf shelf Loading<sup>2,3</sup>

SHELF			STORY RATI	0 <sup>1</sup> : (IS-1)/TSG		
WIDTH	= 0,0	≤ <b>0.2</b>	≤ 0.4	≤0.6	≤ <b>0.8</b>	≤1.0
			S <sub>DS</sub> ≤ 0.73			1
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT
			S <sub>DS</sub> ≤ 1.33			
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT
			S <sub>DS</sub> ≤ 1.83			
18	3 BOLT	3 BOLT	3 BOLT	4 BOLT	N.G.	N.G.
21	3 BOLT	3 BOLT	3 BOLT	4 BOLT	N.G.	N.G.
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.Q.

NOTES:

1. STORY RATIO FORMULA IS (IS-1)/TSG, OR (INSTALLATION STORY -1)/(TOTAL STORIES ABOVE GRADE)

WHERE: -IS: INSTALLATION STORY - I.E. THE STORY UPON WHICH THE SHELVING IS TO BE LOCATED

-TSG: TOTAL STORIES ABOVE GRADE

- IF STORY RATIO IS NOT SHOWN, USE NEXT HIGHEST FIGURE.

- GROUND FLOOR PLUS ALL LEVELS BELOW GRADE ARE DEEMED TO BE ON FLOOR "1", I.E. STORY RATIO = 0.0

IN NO CASE SHALL THE INTERMETRO SHELF RATING BE EXCEEDED. 2

FOR END-TO-END CONDITION, A SIDE-BY-SIDE CONDITION OR A COMBINED END-TO-END WITH A SIDE-BY-SIDE CONDITION 3. PROVIDE INDIVIDUAL FOOT PLATES AS DELINEATED IN DETAILS 3 AND 4 ON SHEET 1 UNLESS OTHERWISE NOTED. PROVIDE A MINIMUM SPACING BETWEEN ANCHORS OF 4" WHEN INDIVIDUAL FOOT PLATES ARE USED.

FOOT PLATES WITH MULTIPLE POSTS, SEE DETAILS 5 AND 6 ON SHEET 1, MAY BE USED IF SPECIFIED IN TABLES 1 THROUGH 16.

WHEN FOOT PLATES WITH MULTIPLE POSTS, AS REFERENCED IN DETAILS 5 & 6 ARE USED, THE POSTS AT THE TOP OF THE 5. SHELVES MUST BE INTERCONNECTED WITH POST CLAMPS AS PER DETAIL 12 ON SHEET 2.

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MAXIMUM LOAD TO BE RESISTED BY THE NOTED FOOT PLATES
AND INDIVIDUAL ANCHORS

Normal Weight Concrete Only

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	2-BOLT	3-BOLT	4-BOLT	5-BOLT	6-BOLT
TU MAX. / FOOT PLATE (Kips)	0.527	0.995	1.320	1.358	1.088
VU MAX. / FOOT PLATE (Kips)	0.272	0.438	0.584	0.702	1.404
TU MAX. / ANCHOR (Kips)	f 1.049	e 1,143 K	0.947 u	m9.946t (	1.085
VU MAX. / ANCHOR (Kips)	0.174	0.392	0.311	0.251	0.317
1. THE ABOVE NOTED LC 2. THE LOADS FOR THE OF THE SUMMATION C	5-BOLT AND 6	BOLT FOOT P	LATES ARE TI	HE RESULTAN	IT

BY THE RESPECTIVE FOOT PLATES.

# Normal Weight Concrete Only



THERE IS NOT AN APPROVED FOOT PLATE FOR THIS CONDITION. N.G.: NO GOOD.

- 2 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 1 ON SHEET 1.
- 3 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 1 ON SHEET 1.

LEGEND:

4 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 2 ON SHEET 1.

> SHELVES MAY BE COMBINED FOR END-TO-END, SIDE-BY-SIDE, OR A COMBINATION OF BOTH CONDITIONS USING THE 5 BOLT FOOT PLATE AS PER DETAIL 5 ON SHEET 1 FOR A TWO-POST CONDITION, AND THE 6 BOLT FOOT PLATE AS PER DETAIL 6 ON SHEET 1 FOR A FOUR-POST CONDITION.

SHELF			STORY RATIO	0 <sup>1</sup> : (19-1)/T9G						
WIDTH	= 0,0	≤0.2	≤0.4	≤ <b>0.6</b>	≤ <b>0.8</b>	≤1.0				
S <sub>DS</sub> ≤0.73										
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT				
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT				
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT				
			$S_{DS} \le 1.33$							
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT				
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT				
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT				
			S <sub>DS</sub> ≤ 1.83							
18	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.				
21	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.				
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.				

SHELF			STORY RATIO	0 <sup>1</sup> : (19-1)/T9G							
WIDTH	= 0.0	≤ <b>0.2</b>	≤ <b>0.4</b>	≤ <b>0.6</b>	≤ <b>0.8</b>	≤ <b>1.0</b>					
	$S_{DS} \leq 0.73$										
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT					
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT					
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT					
			S <sub>DS</sub> <u>≤</u> 1.33								
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT					
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT					
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT					
			S <sub>DS</sub> ≤ 1.83								
18	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					
21	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					

SHELF	STORY RATIO <sup>1</sup> : (IS-1)/TSG										
WIDTH	= 0.0	≤ <b>0.2</b>	≤0.4	≤ 0,6	≤ <b>0.8</b>	≤1.0					
			S <sub>DS</sub> ≤ 0.73	•	•						
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT					
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT					
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT					
	S <sub>DS</sub> ≤1.33										
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT					
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT					
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT					
	S <sub>D8</sub> ≤1.83										
18	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.Q.	N.G.					
21	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.Q.	N.G.					
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					

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SHELF	STORY RATIO <sup>1</sup> : (IS-1)/TSG										
WIDTH	= 0,0	≤ 0.2	≤ 0.4	≤ <b>0,6</b>	≤ <b>0.8</b>	≤ <b>1.0</b>					
0			$S_{DS} \le 0.73$			-					
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT					
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT					
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT					
	S <sub>08</sub> ≤1.33										
18	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	N.G.					
21	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	N.G.					
24	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT	N.G.					
S <sub>DS</sub> <u>≤</u> 1.83											
18	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.					
21	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.					
24	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.					

PROPRIETARY
DRAWING IS NOT FOR USE OR DIS OUTSIDE INTERMETRO INDUSTRIE EXCEPT WITH PERMISSIOI
MATERIAL/COLOR
FINISH/TEXTURE
PART NO.
ALL SPECIFICATIONS PER F
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DWG. NO. D			8					
		REVISION	1S					
REV DESCRIPTION			DATE	DWN	CHK	PD	MFG	CRN#

### Table 7 60 inch Long Shelving 20 psf shelf Loadi

## Table 8 72 inch Long Shelving 20 psf shelf Loadir

SCLOSU SCLOSU SCORF		IVE PROPERTY ALL RIGHTS ND THE SUBJECT RESSLY RESERVED	Inte	rM	ETRO	North Wilke	etro Industri Washingtor es-Barre, PA ww.metro.c	18705
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	APPROVALS	// DATE	TITLE	SEISMIC SUPP FREE STANDI			
	TOLERANCES ARE: DECIMALS FRACTIONS ANGLES	DWN SOC // 08-31-20 CHK SOC // 08-31-20 PD -		INTERMETRO SHELVING				
	0			SIZE	SW DWG. NO.		SHT.	REV . VER
	SOLIDWORKS CAD FILE:			D	29897		4 OF 6	
	Met_D_DWG_rev_P	10 -		SCA	E:	CAD GENERATED DRAWING		RAWING
RODUC	T DEVELOPMENT STANDARDS	MFG		AS NOTED		DOI	OT MANUALLY NOT SCALE DR	
	7				8	6 o	f 8	

Number     Approximate the properties of				Table S 24 inch Long S	9 Shelving			Sand-Light Weight Concrete			3	Table 1 <sup>°</sup> <b>36 inch Long S</b> i	1 helving			
main         m				20 psf shelf Load	ding <sup>2,3,4,5</sup>			_	. <u> </u>			20 psf shelf Loadii	ng <sup>2,3,4,5</sup>			
i         i	HELF				) <sup>1</sup> : (IS-1)/TSG 					<u> </u>	1	STORY RATIO	0 <sup>1</sup> : (18-1)/TSG '	<b></b>		I
		= 0.0	≤ 0.2		≤ 0.6	≤0.8	≤ 1.0			= 0.0	≤ <b>0.2</b>		≤ 0.6	≤ <b>0.8</b>	≤ 1.0	I
	18	2 BOLT	2 BOLT		2 BOLT	2 BOLT	2 BOLT	-	18	2 BOLT	2 BOLT		2 BOLT	2 BOLT	3 BOLT	i
								Sand-Light Weight Concrete								i -
Image: product of the product									24							I.
								-	<b>-</b>							i
	18	2 BOLT	2 BOLT		2 BOLT	3 BOLT	3 BOLT		18	3 BOLT	3 BOLT		3 BOLT	4 BOLT	4 BOLT	I.
								- OR CODE	21							1
								E On	24							i -
						4	4		5					<u> </u>	<u> </u>	I.
n         n	18	3 BOLT	3 BOLT		3 BOLT	4 BOLT	4 BOLT		18	4 BOLT	4 BOLT	1	4 BOLT	N.G.	N.G.	I.
	21								21		_			N.G.		i -
	24								24		_			N.G.		I.
Image: market			ය 	30 inch Long Sh 20 psf shelf Loadin	<b>1elving</b>			VU MAX. / FOOT PLATE (Kips) 0.193 0.278 0.422 K 0.413 0.848 0	(//// C	2	4					
Image: constraint of the state of the s	HELF			STORY RATIC	J <sup>1</sup> : (IS-1)/TSG							STORY RATIO	D <sup>1</sup> : (18-1)/TSG			1
	MD1H	= 0.0	≤ 0.2		≤ <b>0.6</b>	≤ <b>0.8</b>	≤ 1.0	<ol> <li>THE LOADS FOR THE 5-BOLT AND 6-BOLT FOOT PLATES ARE THE RESULTANT OF THE SUMMATION OF THE REACTIONS FROM THE MULTIPLE POSTS SUPPORTED</li> </ol>		= 0.0	≤0.2		≤ 0.6	≤0.8	≤ 1.0	1
x     x <td></td> <td></td> <td></td> <td></td> <td>1 0 00 T</td> <td>0.001 T</td> <td>A POL T</td> <td></td> <td><math>\sim</math></td> <td></td> <td>1 DOL T</td> <td></td> <td>0.001 T</td> <td></td> <td></td> <td>l .</td>					1 0 00 T	0.001 T	A POL T		$\sim$		1 DOL T		0.001 T			l .
***       2 BOLT       3 BOLT       3 BOLT       3 BOLT       3 BOLT       3 BOLT       4 BOLT								Cand Light Weight Congrate	18							i -
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1       4       BOLT	18						NG		18	4 BOI T	4 ROLT		NG	NG		I.
Index         Index <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>STRUCTURAL ENGINEERS CML ENGINEERS</td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td>1</td></th<>								STRUCTURAL ENGINEERS CML ENGINEERS			_					1
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-rsc: total stories above grade -rsc: total stories above grade - ground Floor Plus all levels below grade are beened to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus all levels below grade are beened to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus all levels below grade are beened to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus all levels below grade are beened to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus all levels below grade are beened to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus all levels below grade are beened to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus all levels below grade are beened to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus all levels below grade are beened to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus all levels below grade are beened to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus all levels below grade are beened to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus are present to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus are present to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus are present to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus are present to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus are present to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus are present to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus are present to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus are present to be on Floor *1," i.e. story ratio = 0.0 - ground Floor Plus are present to constitution on floor *1," i.e. story ratio = 0.0 - ground Floor Plus are present to constitution on floor *1," i.e. story ratio = 0.0 - ground Floor *1," i.e. story ratio = 0.0	S: STORY	Y RATIO FORMULA IS (IS- WHERE:	S-1)/TSG, OR (INSTALLA	ATION STORY -1)/(TOTAL S	L STORIES ABOVE GRA	RADE)	N.G.			4 BOLT	4 BOLT	4 BOLT	NQ.	<u>N.G.</u>	NQ	
IN NO CASE SHALL THE INTERMETRO SHELF RATING BE EXCEEDED.       4 BOLT:       PROVIDE A FOOT PLATE AS PER DETAIL 2 ON SHEET 1.       Intermeting the solution of the	-	-TSG: TOTAL STORIES A - IF STORY RATIO IS NOT	ABOVE GRADE OT SHOWN, USE NEXT H	HIGHEST FIGURE.							[	THE DI				
FOR END-TO-END CONDITION, A SIDE-BY-SIDE CONDITION OR A COMBINED END-TO-END WITH A SIDE-BY-SIDE CONDITION PROVIDE INDIVIDUAL FOOT PLATES AS DELINEATED IN DETAILS 3 AND 4 ON SHEET 1 UNLESS OTHERWISE NOTED. PROVIDE A MINIMUM SPACING BETWEEN ANCHORS OF 4" WHEN INDIVIDUAL FOOT PLATES ARE USED.											DRAWING IS NOT FOR L	USE OR DISCLOSURE WITH D	ARE THE SOLE AND EXCLUS			Metro Industries rth Washington Si vilkes-Barre, PA 18
FOOT PLATES WITH MULTIPLE POSTS, SEE DETAILS 5 AND 6 ON SHEET 1, MAY BE USED IF SPECIFIED IN TABLES 1 THROUGH 16. CONDITION.  SOLIDWORKS CAD FILE: VHEN FOOT PLATES WITH MULTIPLE POSTS, AS REFERENCED IN DETAILS 5 & 6 ARE USED, THE POSTS AT THE TOP OF THE	FOR EN PROVIE	ND-TO-END CONDITION, DE INDIVIDUAL FOOT PLA	N, A SIDE-BY-SIDE COND LATES AS DELINEATED	IDITION OR A COMBINED E D IN DETAILS 3 AND 4 ON S	N SHEET 1 UNLESS OTH			: SHELVES MAY BE COMBINED FOR END-TO-END, SIDE-BY-SIE COMBINATION OF BOTH CONDITIONS USING THE 5 BOLT FO AS PER DETAIL 5 ON SHEET 1 FOR A TWO-POST CONDITION,	OOT PLATE , AND THE		OUTSIDE INTERMETRO EXCEPT WITH P MATERIAL/COLOR		R DEPICIED HEREIN ARE EXP VITHHELD BY INTERMETRO INI S OTHERWISE SPECIFIED DNS ARE GIVEN IN INCHES FOLERANCES ARE:	APPROVALS // DATE	TITLE: SEISMIC SUPPORT FREE STANDING, F	www.metro.com T AND ATTACHN FLOOR ANCHO
	FOOT '	PLATES WITH MULTIPLE	E POSTS, SEE DETAILS	3 5 AND 6 ON SHEET 1, M/	AY BE USED IF SPECI	FIED IN TABLES 1 THRC	JUGH 16.				FINISH/TEXTURE		0	CHK SOC // 08-31-20		SHT. R
						DOCTO AT THE TOD OF	тис				2127.110			PD -		

1	2	3	4	5	6	DWG. NO. D	SHT. 1 OF 1 REV.VER	8
							REVISIONS	
						REV	DESCRIPTION DAT	E DWN CHK PD MFG CRN#

# Base Anchorage Requirement for Acceptable Anchorage Configurations at Various Story Locations for Shelving Lengths Shown Sand-Light Weight Concrete

# Table 13 48 inch Long Shelving 20 psf shelf Loading<sup>2,3,4,5</sup>

SHELF	STORY RATIO <sup>1</sup> : (IS-1)/TSG										
WIDTH	= 0,0	≤ 0.2	≤ <b>0.4</b>	≤ <b>0,6</b>	≤ <b>0.8</b>	≤ <b>1.0</b>					
			$S_{DS} \le 0.73$								
18	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT					
21	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT					
24	2 BOLT	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT					
	S <sub>D8</sub> ≤1.33										
18	4 BOLT	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.					
21	4 BOLT	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.					
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.					
S <sub>DS</sub> ≤ 1.83											
18	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.					
21	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.					
24	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.					

# Table 14

20 psf shelf Loading <sup>2,3,4,5</sup>			Shelving
	2	0 psf shelf Lo	oading <sup>2,3,4,5</sup>

SHELF	STORY RATIO <sup>1</sup> : (IS-1)/TSG										
WIDTH	= 0,0	≤ <b>0.2</b>	≤ 0,4	≤0,6	≤0.8	≤1.0					
		•	S <sub>DS</sub> ≤ 0.73	•	•	The second se					
18	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	3 BOLT					
21	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	3 BOLT					
24	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	3 BOLT					
		•	S <sub>DS</sub> <u>≤</u> 1.33			•					
18	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					
21	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					
		•	S <sub>DS</sub> = 1.83			•					
18	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.					
21	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.					
24	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.					

NOTES:

1. STORY RATIO FORMULA IS (IS-1)/TSG, OR (INSTALLATION STORY -1)/(TOTAL STORIES ABOVE GRADE)

WHERE:

-IS: INSTALLATION STORY - I.E. THE STORY UPON WHICH THE SHELVING IS TO BE LOCATED

-TSG: TOTAL STORIES ABOVE GRADE - IF STORY RATIO IS NOT SHOWN, USE NEXT HIGHEST FIGURE.

- GROUND FLOOR PLUS ALL LEVELS BELOW GRADE ARE DEEMED TO BE ON FLOOR "1", I.E. STORY RATIO = 0.0

IN NO CASE SHALL THE INTERMETRO SHELF RATING BE EXCEEDED. 2

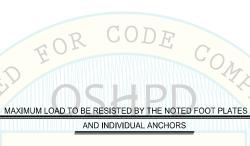
FOR END-TO-END CONDITION, A SIDE-BY-SIDE CONDITION OR A COMBINED END-TO-END WITH A SIDE-BY-SIDE CONDITION 3. PROVIDE INDIVIDUAL FOOT PLATES AS DELINEATED IN DETAILS 3 AND 4 ON SHEET 1 UNLESS OTHERWISE NOTED. PROVIDE A MINIMUM SPACING BETWEEN ANCHORS OF 4" WHEN INDIVIDUAL FOOT PLATES ARE USED.

FOOT PLATES WITH MULTIPLE POSTS, SEE DETAILS 5 AND 6 ON SHEET 1, MAY BE USED IF SPECIFIED IN TABLES 1 THROUGH 16. 4.

WHEN FOOT PLATES WITH MULTIPLE POSTS, AS REFERENCED IN DETAILS 5 & 6 ARE USED. THE POSTS AT THE TOP OF THE 5. SHELVES MUST BE INTERCONNECTED WITH POST CLAMPS AS PER DETAIL 12 ON SHEET 2.

2

Sand-Light	Weiaht	Concrete



	<u> </u>	A 1	$\sim$					
	2-BOLT	3-BOLT	4-BOLT	5-BOLT	<u>6-BOLT</u>			
TU MAX. / FOOT PLATE (Kips)	0.351	0.598	0.930	0.783	0.626			
VU MAX. / FOOT PLATE (Kips)	0.193	0.278	0.422	0.413	<mark>0.</mark> 848			
TU MAX. / ANCHOR (Kips)	f 0.705 (	2 <b>9</b> .696 K	0.665	10.546 t (	<mark>]0.</mark> 639			
VU MAX. / ANCHOR (Kips)	0.097	0.242	0.221	0.147	0.125			
1. THE ABOVE NOTED LOADS INCLUDE THE OVERSTRENGTH FACTOR ( $\Omega_0$ ) OF 2.0.								

[1]

LEGEND:

2. THE LOADS FOR THE 5-BOLT AND 6-BOLT FOOT PLATES ARE THE RESULTANT OF THE SUMMATION OF THE REACTIONS FROM THE MULTIPLE POSTS SUPPORTED BY THE RESPECTIVE FOOT PLATES.

# Sand-Light Weight Concrete



N.G.: NO GOOD. THERE IS NOT AN APPROVED FOOT PLATE FOR THIS CONDITION.

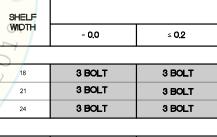
- 2 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 1 ON SHEET 1.
- 3 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 1 ON SHEET 1.
- 4 BOLT: PROVIDE A FOOT PLATE AS PER DETAIL 2 ON SHEET 1.

SHELVES MAY BE COMBINED FOR END-TO-END, SIDE-BY-SIDE, OR A COMBINATION OF BOTH CONDITIONS USING THE 5 BOLT FOOT PLATE AS PER DETAIL 5 ON SHEET 1 FOR A TWO-POST CONDITION, AND THE 6 BOLT FOOT PLATE AS PER DETAIL 6 ON SHEET 1 FOR A FOUR-POST CONDITION.

SHELF	STORY RATIO <sup>1</sup> : (IS-1)/TSG										
WIDTH	= 0.0	≤ <b>0.2</b>	≤ 0.4	≤0,6	≤ <b>0.8</b>	≤ 1.0					
	S <sub>06</sub> ≤0.73										
18	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	4 BOLT					
21	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	4 BOLT					
24	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	4 BOLT					
			$S_{DS} \leq 1.33$								
18	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					
21	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					
			S <sub>DS</sub> ≤ 1.83								
18	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.					
21	N.Q.	N.G.	N.G.	N.G.	N.G.	N.G.					
24	N.Q.	N.G.	N.G.	N.G.	N.Q.	N.G.					

SHELF	STORY RATIO <sup>1</sup> : (IS-1)/TSG										
WIDTH	= 0.0	≤ <b>0.2</b>	≤ 0.4	≤0,6	≤ <b>0.8</b>	≤ 1.0					
	S <sub>06</sub> ≤0.73										
18	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	4 BOLT					
21	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	4 BOLT					
24	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	4 BOLT					
			$S_{DS} \leq 1.33$								
18	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					
21	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					
			S <sub>DS</sub> ≤ 1.83								
18	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.					
21	N.Q.	N.G.	N.G.	N.G.	N.G.	N.G.					
24	N.Q.	N.G.	N.G.	N.G.	N.Q.	N.G.					

SHELF	STORY RATIO <sup>1</sup> : (IS-1)/TSG										
WIDTH	= 0.0	≤ <b>0.2</b>	≤ 0.4	≤ <b>0.6</b>	≤ <b>0.8</b>	≤ <b>1.0</b>					
	S <sub>DS</sub> ≤0.73										
18	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	4 BOLT					
21	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	4 BOLT					
24	2 BOLT	2 BOLT	2 BOLT	3 BOLT	3 BOLT	4 BOLT					
			S <sub>DS</sub> ≤ 1.33								
18	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					
21	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.					
24	4 BOLT	4 BOLT	4 BOLT	4 BOLT	N.G.	N.Q.					
			S <sub>DS</sub> ≤ 1.83								
18	N.G.	N.G.	N.G.	N.Q.	N.G.	N.G.					
21	N.Q.	N.G.	N.G.	N.Q.	N.G.	N.G.					
24	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.					



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SHELF	STORY RATIO <sup>1</sup> : (IS-1)/TSG								
WIDTH	= 0.0	≤ 0.2	≤ <b>0.4</b>	≤ <b>0,6</b>	≤ <b>0.8</b>	≤ 1.0			
5/			$S_{DS} \leq 0.73$						
18	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT			
21	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT			
24	3 BOLT	3 BOLT	3 BOLT	3 BOLT	4 BOLT	4 BOLT			
		•	S <sub>DS</sub> ≤ 1.33	•		•			
18	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.			
21	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.			
24	4 BOLT	4 BOLT	4 BOLT	N.G.	N.G.	N.G.			
		•	S <sub>DS</sub> ≤ 1.83		*	-			
18	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.			
21	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.			
24	N.G.	N.Q.	N.Q.	N.G.	N.Q.	N.G.			

PROPRIETARY
DRAWING IS NOT FOR USE OR DI OUTSIDE INTERMETRO INDUSTRI EXCEPT WITH PERMISSIO
MATERIAL/COLOR
FINISH/TEXTURE
PART NO.
ALL SPECIFICATIONS PER I
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3

DWG. NO. D	SHT. 1 OF 1	REV.VER			8			
		REVISION	IS					
REV	DESCRIPTION		DATE	DWN	СНК	PD	MFG	CRN#

### Table 15 60 inch Long Shelving 20 psf shelf Loadin

## Table 16 72 inch Long Shelving 20 psf shelf Loadir

SCLOSU ES CORP N		IVE PROPERTY ALL RIGHTS ND THE SUBJECT RESSLY RESERVED	Inte	r <b>M</b>	ETRO	North Wilke	etro Industri Washingtor es-Barre, PA ww.metro.c	Street 18705	
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE GIVEN IN INCHES	APPROVALS	// DATE	TITLE:	SEISMIC SUF				
	TOLERANCES ARE: DECIMALS FRACTIONS ANGLES	DWN SOC // 08-31-20 CHK SOC // 08-31-20		INTERMETRO SHELVING					
	0			_	SW DWG. NO 29897		SHT.	REV . VER	
	SOLIDWORKS CAD FILE: Met D DWG rev P	PD -		D SCAI		CAD	6 OF 6		
RODUCT DEVELOPMENT STANDARDS		MFG		AS NOTED		CAD GENERATED DRAWING DO NOT MANUALLY UPDATE. DO NOT SCALE DRAWING.		UPDATE.	
	7				8	3 8 0	f 8		