

APPLICATION FOR OSHPD PREAPPROVAL

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

OFFICE USE ONLY

OF MANUFACTUR	EK 3 CEKTIF	TCATION (OP	IVI) APPLICATION	N#: OPM-	-0275-13
OSHPD Preapproval of	Manufacturer's C	Certification (OPN	/ I)		
Type: ☐ New ☐	Renewal Up	odate to Pre-CBC 20	13 OPA Number:	OPA-0275	j-13
Manufacturer Information	on				
Manufacturer:	На	aworth® Inc			
Manufacturer's Technical Re	epresentative: <u>Ja</u>	mison Burchfield			
Mailing Address:	On	ne Haworth Center,	Holland, MI 49423-	9576	
Telephone: 616-393-4227		Email: DJa	mison.Burchfield@)Haworth.co	<u>m</u>
Product Information					
Product Name:	Wall Mount® Adap	otable Overhead Sto	rage		
Product Type:	Wall mounted store	age cabinet -13	N'Z	\	
Product Model Number:	Configurations for	14" deep by 16" high	by 24" through 72	" long	
General Description:	Overh <mark>ead Wall Mou</mark>	unted Storage Cabir	nets		
	D.	ATE: 11/16/2	018		
	(E)	T.	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \		
Applicant Information	***				
Applicant Company Name:	Haworth® Inc	BUILDIN	G COY		
Contact Person:	Jamison Burchfie	eld			
Mailing Address:	One Haworth Cer	nter, Holland, MI 49	423-9576		
Telephone:	616-393-4227	Email: _Ja	amison.Burchfield@)Haworth.co	<u>m</u>
I hereby agree to reimb accordance with the Ca			_	d Developi	ment review fees in
Signature of Applicant:	-)amison 4	Burefred		Date:	08.08.18
Title: Senior Sales Engine	eer Co	ompany Name: H	aworth Inc.		

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







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

Registered Design Professional Preparing Engineering Recommendations								
Company Name: CYS Structural Engineers, Inc.								
Name: Dieter T. Siebald California License Number: S4346								
Mailing Address:2495 Natomas Park Drive, Sacramento, CA 95833								
Telephone: 916-920-2020 Email: dieters@cyseng.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 1950-16 ☐ 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 Experience Data Combination of Testing, Analysis, and/or Experience Data (Please Specify):								
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: Date: November 15, 2018 Print Name: Jeffrey Kikumoto								
Title: SSE								
Condition of Approval (if applicable):								

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- OPM-0275-13 Renewal\STRU\S1.dwq Time:Auq08,2018-02:12pm Loqin:camachom Dimscale:1 LTScale:4 ::\Jobs17\17146 Haworth

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THESE DRAWINGS ARE PREPARED FOR HAWORTH, INC. NOTES: 1.

- THE CONTRACTOR AND INSPECTOR OF RECORD SHALL OBTAIN A COPY OF THIS PRE-APPROVAL FROM THE OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT (OSHPD) PRE-APPROVAL PROGRAMS WEBSITE.
- THIS PRE-APPROVAL COVERS THE SUPPORTS AND ATTACHMENTS OF THE WALL MOUNT ADAPTABLE OVERHEAD STORAGE TO THE SUPPORTING STRUCTURE. THE OVERHEAD STORAGE CABINETS, WALL MOUNTING LOAD BARS & FASTENER KITS ARE SUPPLIED BY HAWORTH.





CYS STRUCTURAL ENGINEERS, INC.

2495 NATOMAS PARK DRIVE, SUITE 650 SACRAMENTO, CA 95833

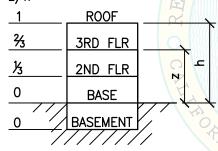
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GENERAL NOTES:

- 1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2016. THE DEMAND (DESIGN FORCES) FOR USE W/ THIS OPM SHALL BE BASED ON THE CBC 2016.
- 2. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SEOR) FOR A SITE SPECIFIC PROJECT TO VERIFY:
 - A. THE ADEQUACY OF THE NEW OR EXISTING STRUCTURE (METAL STUDS, ETC.) TO RESIST THE FORCES & WEIGHT SPECIFIED FOR EA COMPONENT IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS & THEIR ATTACHMENTS AS REQ.
 - THE WALL FASTENERS ARE LOCATED AT A STUD WALL OF MIN SPECIFIED MATERIAL & GAUGE AS NOTED ON PGS 6 & 7.
 - C. THE INSTALLATION IS IN CONFORMANCE W/ THE CBC 2016 & W/ THE DETAILS SHOWN IN THIS PRE-APPROVAL.
 - D. THE COMPONENT'S ACTUAL WT, CENTER OF GRAVITY (CG) LOCATION, ATTACHMENT LOCATIONS, & THE DETAILS, MATERIAL & GAUGE OF THE COMPONENT WHERE ATTACHMENTS ARE MADE AGREE W/ THE INFORMATION SHOWN IN THE PRE-APPROVAL.
 - E. THE SHEET METAL SCREWS (SMS) ARE IN COMPLIANCE W/ "SSMA" STANDARDS, HAVE MIN LOAD CAPACITIES PER OPD-0001-13, SATISFY ICC-ES-AC118 & COMPLY W/ ESR-1271. REISSUED JULY 2018, OR EQ.
- 3. ALL COLD-FORMED STEEL FOR WALL STUDS SHALL CONFORM TO THE FOLLOWING, UNO. ASTM A653 STRUCTURAL QUALITY, GRADE 33 (18 GA) OR GRADE 50 (16 GA & HEAVIER)
- 4. TWO (2) CASES OF ATTACHMENT ARE SPECIFIED & PRESENTED IN THIS PRE-APPROVAL: z/h



BY: CASE 1: SUPPORT & ATTACHMENT LOCATED AT ANY LEVEL IN A BLDG ($z/h \le 1.0$).

BLDG ELEV

5. THIS PRE-APPROVAL MAY BE USED AT ANY GEOGRAPHICAL LOCATION IN THE STATE

OF CALIFORNIA WHERE S_{DS} IS LESS THAN OR EQ TO 2.50.

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SHEET TITLE: GENERAL NOTES

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<u>ABBRE</u>	<u>:VIATIONS:</u>				
ADDNL	ADDITIONAL	$F_{\mathbf{p}}$	HORIZONTAL SEISMIC FORCE	PG(S)	PAGE(S)
ASD	ALLOWABLE STRESS DESIGN	•	PER ASCE 7-10 SEISMIC	Pe `´	PLATE
ASTM	AMERICAN SOCIETY FOR		FORCE REQUIREMENTS	REQ	REQUIRED
	TESTING & MATERIALS	F_y	SPECIFIED MINIMUM YIELD	SEOR	STRUCTURAL ENGINEER OF
BLDG	BUILDING	•	STRESS OF STEEL		RECORD
BLW	BELOW	GA	GAUGE	SMS	SHEET METAL SCREW
CBC	CALIFORNIA BUILDING CODE	GWB	GYPSUM WALLBOARD	STL	STEEL
CG	CENTER OF GRAVITY	ICC	INTERNATIONAL CODE COUNCIL	T _{max}	MAXIMUM TENSION REACTION
Q.	CENTERLINE	IN (")	INCH	TYP	TYPICAL
DIA (ø)	DIAMETER	KSI	KIPS PER SQUARE INCH	T&B	TOP & BOTTOM
(E)	EXISTING CONDITION	LBS	POUNDS	UNO	UNLESS NOTED OTHERWISE
ÈÁ	EACH	LGTH	LENGTH	V_{max}	MAXIMUM SHEAR REACTION
EE	EACH END	LRFD	LOAD AND RESISTANCE	W/	WITH
ELEV	ELEVATION		FACTOR DESIGN	W _P WT	OPERATING WEIGHT
ES	EA SIDE	MAX	MAXIMUM	WT	WEIGHT
EQ	EQUAL	MFR	MANUFACTURER		
FLG	FLANGE	MIN	MINIMUM		
FLR	FLOOR	NO. (#)	NUMBER OR POUNDS		

SYSTEM OVERVIEW & DESIGN CRITERIA

- THE WALL MOUNT ADAPTABLE OVERHEAD STORAGE IS AN OVERHEAD CABINET 14" DEEP, 16" HIGH & 24" TO 72" WIDE (AVAILABLE IN 6" INCREMENTS). THE OPERATING WI FOR THE CABINET IS BASED ON COMPONENT WT (5 PCF) PLUS WT OF MEDIA AS FOLLOWS: PAPER MEDIA: 33 PCF PER TOTAL USEABLE STORAGE VOLUME OF THE CABINET (12" DEEP x 12" HIGH)
- 2. ATTACHMENT DESIGN IS PER 2016 CBC AT ASD LEVEL FORCES.

CABINETS & OTHER RIGID COMPONENTS W/ LIMITED DEFORMABILITY ELEMENTS & ATTACHMENTS PER TABLE 13.5-1 OF ASCE 7-10 SUPPLEMENT #1:

$$a_p = 1.0$$

$$R_{p} = 2.5$$

$$I_p = 1.5$$

W, AS NOTED ON DRAWINGS SHOWN ON PG 4.

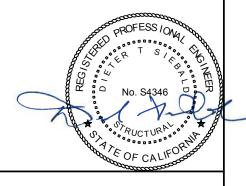
ANY LOCATION IN THE BLDG WHERE $z/h \le 1$

CASE 1:

$$S_{DS} = 2.50$$

$$S_{DS} = 2.50$$
 $F_p = 1.80 W_p$

ASD GOVERNING LOAD COMBINATION $(1.0 + 0.7*0.2 S_{DS}) D + 0.7 F_{DS}$



SHEET TITLE: ABBREVIATIONS

SYSTEM OVERVIEW & DESIGN CRITERIA



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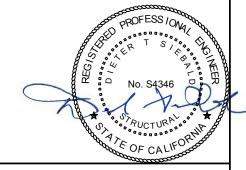
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OVERHEAD CABINET ATTACHMENT SCHEDULE										
CABINET WIDTH (IN)		24	30	36	42	48	54	60	66	72
MAX CG WT, W _p (LBS) ⁽¹⁾		89	111	133	156	178	200	222	244	266
NO. OF SMS PER STUD AT LOAD BAR		2- #12			3- #12					
STUDS SPACED 12" OC										
MIN NO. OF STUDS FOR ATTACHMENT		2	2	3	3	4	4	4	5	6
MAX ASD FORCES	T _{max}	47	59	42	40	32	36	40	34	30
PER SCREW (LBS)	Vmax	39	47	74	68	62	81	88	57	77
STUDS SPACED 16" OC										
MIN NO. OF STUDS FOR ATTACHMENT		22	C20 1	E^2	3	3	3	4	4	4
MAX ASD FORCES PER SCREW (LBS)	T _{max}	42	52	63	35	40	45	37	40	44
	Vmax	30_	48	46	46	> 52	76	68	84	90
STUDS SPACED 24" OC										
MIN NO. OF STUDS FOR ATTACHMENT		Mn/A2	75 2 13	2	2	2	3	3	3	3
MAX ASD FORCES PER SCREW (LBS)	Tmax		50	60	52	59	43	47	52	57
	V _{max} BY	: Jeffr	^{ey} 32	ikumot 47	36	44	43	60	74	83

(1)INCLUDES CABINET WT + CONTENT



SHEET TITLE: OVERHEAD CABINET ATTACHMENT SCHEDULE

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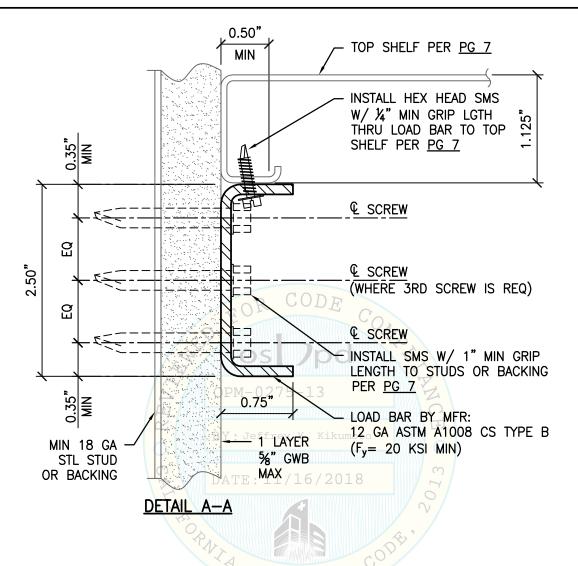
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HAWORTH, INC. WALL MOUNT® ADAPTABLE OVERHEAD STORAGE

HAWORTH



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SHEET TITLE: LOAD BAR DETAIL

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