



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

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

OFFICE USE ONLY

APPLICATION #: OPM-0632

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: New Renewal/Update

Manufacturer Information

Manufacturer: OFS

Manufacturer's Technical Representative: Donn Mehringer

Mailing Address: 4611 South 400 West, Huntingburg, IN 47542

Telephone: (812) 630-8198 Email: dmehringer@ofs.com

Product Information

Product Name: OFS Carolina Mile Marker

Product Type: Hanging Base Cabinet

Product Model Number: Products with numbers ending in UC, UCS, UCD, UCDS, UCDGB, UCDGBS, UCHD, UCHDS, UHCDS, UCL, and UCLS

General Description: Wall mounted base cabinets.

Applicant Information

Applicant Company Name: Jensen Hughes

Contact Person: Christopher Hendrix

Mailing Address: 100 Quannapowitt Parkway, Suite 401, Wakefield, MA 01880

Telephone: (857) 259-4968 Email: chendrix@jensenhughes.com

Title: Lead Engineer

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





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

Registered Design Professional Preparing Engineering Recommendations

Company Name: JENSEN HUGHES
Name: Kevin Dommer California License Number: CE89829
Mailing Address: 475 Bond Street, Suite 120, Lincolnshire, IL 60069
Telephone: (847) 349-4497 Email: kdommer@jensenhughes.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.

- Analysis
- Experience Data
- Combination of Testing, Analysis, and/or Experience Data (Please Specify): _____

OSHPD Approval

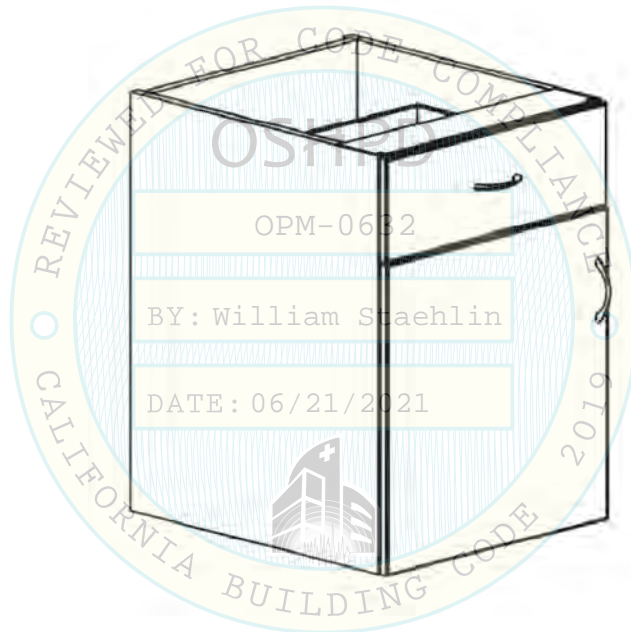
Date: 6/21/2021
Name: William Staehlin Title: Senior Structural Engineer
Condition of Approval (if applicable): _____



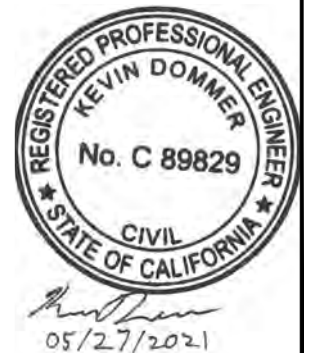
OPM-0632 OFS CAROLINA MILE MARKER HANGING BASE CABINETS

EQUIPMENT

ITEMS INCLUDED IN THIS DESIGN INCLUDE OFS CAROLINA MILE MARKER WALL ATTACHED OFS CAROLINA MILE MARKER HANGING BASE CABINETS WITH PRODUCT NUMBERS ENDING IN HBC, HBCD, HBCDGB, HBCDD, HBC1, HBC2, HBC3, HBC4, HBCWP, HBCP, HBCDD2, HBSC, OR, HBSCFD. THE STRUCTURAL ENGINEER OF RECORD MUST VERIFY ALL ITEMS WITH THE SPECIFIED DIMENSIONS AND WEIGHTS INCLUDED IN THE TABLE STARTING ON SHEET 4.



ISOMETRIC VIEW



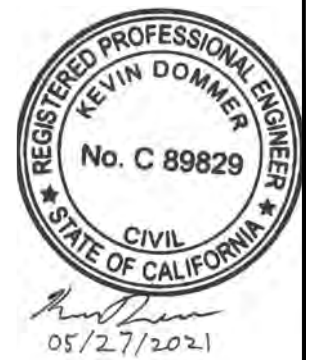
TITLE OFS CAROLINA MILE MARKER HANGING BASE CABINETS	MANUFACTURER OFS	PROJECT NO 1CMH00005.000	EQUIPMENT OFS CAROLINA MILE MARKER HANGING BASE CABINETS WITH PRODUCT NUMBERS ENDING IN HBC, HBCD, HBCDGB, HBCDD, HBC1, HBC2, HBC3, HBC4, HBCWP, HBCP, HBCDD2, HBSC, HBSCFD.	
	PRODUCT LINE CAROLINA MILE MARKER	DATE 05/27/2021	DESIGN CMH	DRAWN BY CMH
OPM NUMBER OPM-0632 06/21/2021	EQUIPMENT DESCRIPTION WALL ATTACHED BASE CABINET		SHEET 1 OF 6	
OPM-0632: Reviewed for Code Compliance by William Staehlin			JENSEN HUGHES 100 Quannapowitt Parkway Suite 401 Wakefield, MA 01880 O: +1 857-259-4968 jensenhughes.com 3 of 8	

GENERAL NOTES

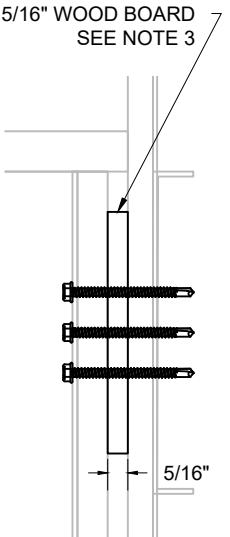
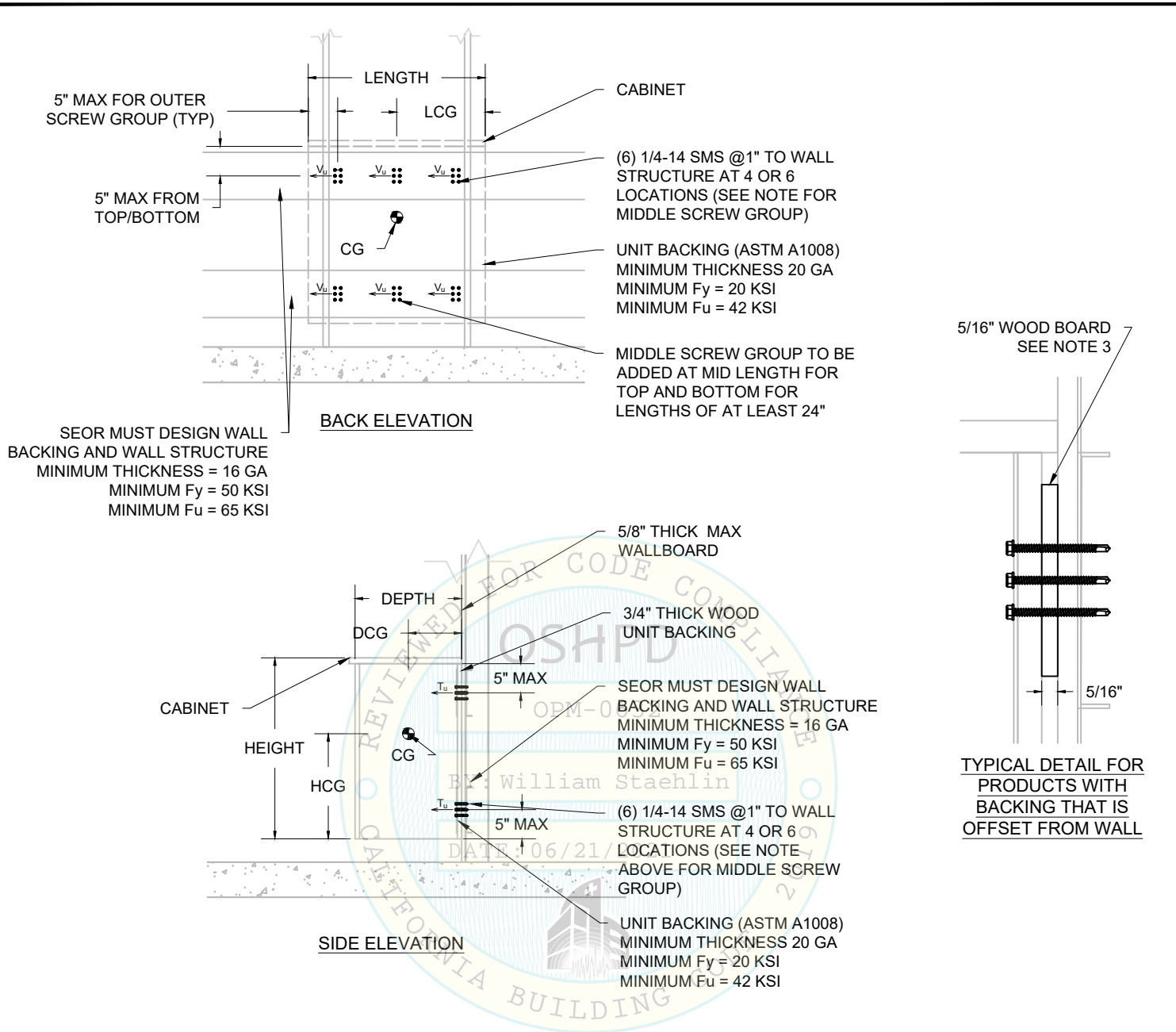
1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2019. THE DEMAND FOR USE WITH THIS OPM MUST BE BASED ON THE CBC 2019.
2. SEISMIC DESIGN FORCES ARE PER ASCE 7-16, WHERE:
 - a. $S_{DS}=2.50$; $a_p=1.0$; $I_p=1.5$; $R_p=2.5$; $z/h \leq 1.0$
 - b. LRFD: $E_H=1.85W_p$; $E_V=0.51W_p$
 - c. ASD: FACTOR OF 0.7 APPLIED TO LRFD LOADS
3. THE DETAILS IN THIS PREAPPROVAL MAY BE USED AT ANY LOCATION WHERE $S_{DS} \leq 2.50$ AND $z/h \leq 1.0$.
4. ALL SEISMIC SCREW FORCES SHOWN ON THE DRAWINGS ARE UNFACTORED LOADS THAT MUST BE USED FOR ALLOWABLE STRESS DESIGN (ASD).
5. SHEET METAL SCREWS (SMS) MUST BE ITW BUILDEX TEKS SELF-DRILLING FASTENERS (ESR-1976) OR HILTI SELF-DRILLING AND SELF-PIERCING SCREWS (ESR-2196).
6. SMS MUST CONFORM TO MINIMUM SPACING, EDGE DISTANCE, AND EMBEDMENT THROUGH STUDS PER ESR-1976 OR ESR-2196.
7. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE. SEE SHEET 3 FOR LIGHT GAUGE STEEL MINIMUM SPECIFICATIONS.
8. THE CENTER OF GRAVITY (DCG, HCG) SHOWN ON THE DRAWINGS IS A MAXIMUM. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT (WT TOTAL) AND CENTER OF GRAVITY (HCG, DCG) SHOWN IN THE TABLE STARTING ON SHEET 4.
9. A SIGN MUST BE POSTED ON ALL CABINETS TO INDICATE THE MAXIMUM MEDIA WEIGHT INSIDE (MEDIA WT INSIDE) AND ON TOP (MEDIA WT TOP) OF THE CABINET AS SHOWN ON THE TABLE IN SHEET 4.
10. FOR GEOMETRY, WEIGHT, AND SCREW FORCES, SEE TABLE STARTING ON SHEET 4.
11. MINIMUM SCREW SPACING MUST BE 3/4" AND MINIMUM EDGE DISTANCE MUST BE 3/8".

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD (SEOR)

12. DESIGN OF BACKING PLATES AND STUDS TO WHICH THE UNITS ARE ATTACHED, AS NOTED ON THE DRAWINGS.
13. VERIFICATION OF THE ADEQUACY OF THE STRUCTURES WHICH RESIST ALL APPLICABLE LOADS CAUSED BY THE ITEMS HEREIN.
14. DESIGN OF ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT THE WEIGHTS AND FORCES SHOWN HEREIN, IN ADDITION TO ALL OTHER APPLICABLE LOADS.
15. VERIFICATION THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2019 CBC AND WITH THE DETAILS SHOWN IN THIS DOCUMENT.
16. VERIFICATION THAT THE ACTUAL EQUIPMENT WEIGHT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS, AND THE MATERIAL AND GAUGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN IN THE PREAPPROVAL DOCUMENTS.
17. VERIFICATION THAT THE COMBINATION OF S_{DS} AND z/h RESULT IN SEISMIC FORCES (E_H AND E_V) THAT ARE NOT GREATER THAN THE VALUES IN THESE GENERAL NOTES.
18. VERIFICATION THAT THE ATTACHMENTS ARE LOCATED AT AN ADEQUATE DISTANCE AWAY FROM ANY END OR EDGE OF METAL STUD.



TITLE OFS CAROLINA MILE MARKER HANGING BASE CABINETS	MANUFACTURER OFS	PROJECT NO 1CMH00005.000	EQUIPMENT OFS CAROLINA MILE MARKER HANGING BASE CABINETS WITH PRODUCT NUMBERS ENDING IN HBC, HBCD, HBCDGB, HBCDD, HBC1, HBC2, HBC3, HBC4, HBCWP, HBCP, HBCDD2, HBSC, HBSCFD.	
	PRODUCT LINE CAROLINA MILE MARKER	DATE 05/27/2021		
EQUIPMENT DESCRIPTION WALL ATTACHED BASE CABINET	DESIGN CMH	DRAWN BY CMH	CHECKED BY KPD	
OPM NUMBER OPM-0632 06/21/2021	SHEET 2 OF 6 OPM-0632: Reviewed for Code Compliance by William Staehlin		100 Quannapowitt Parkway Suite 401 Wakefield, MA 01880 O: +1 857-259-4968 jensenhughes.com 4 of 8	



TYPICAL DETAIL FOR PRODUCTS WITH BACKING THAT IS OFFSET FROM WALL

NOTES:

1. UNIT CONSTRUCTED OF 3/4" THICK WOOD BOARDS. SMS TO FASTEN THROUGH STEEL UNIT BACKING, WOOD UNIT BACKING, AND WALLBOARD TO THE STEEL WALL BACKING. THE SUM OF THE THICKNESSES OF THESE ITEMS MUST NOT BE GREATER THAN THE SPECIFIED MAXIMUM TOTAL THICKNESS, MT, OF THE SMS.
2. A SIGN MUST BE POSTED ON ALL CABINETS TO INDICATE THE MAXIMUM MEDIA WEIGHT ALLOWED INSIDE AND ON TOP OF THE CABINET, AS SHOWN IN THE TABLE ON STARTING ON SHEET 4.
3. FOR CABINETS WITH BACKING OFFSET FROM WALL, SMS WITH APPROPRIATE LENGTH OF LOAD BEARING AREA MUST BE DRILLED THROUGH 5/16" WOOD BOARD IN THE 5/16" GAP BETWEEN BACK OF CABINET AND WALL. BOARD MUST MEET THE MINIMUM EDGE DISTANCE REQUIRED FOR THE SMS AND MUST BE SECURED IN PLACE USING SCREWS, GLUE, OR OTHER MEANS SO THAT IT WILL REMAIN IN PLACE DURING THE INSTALLATION OF THE SMS. SEE DETAIL TO THE RIGHT.



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	PRODUCT LINE CAROLINA MILE MARKER	DATE 05/27/2021	REGISTERED PROFESSIONAL ENGINEER KEVIN DOMMER No. C 89829 CIVIL STATE OF CALIFORNIA <i>Kevin Dommer</i> 05/27/2021	
EQUIPMENT DESCRIPTION WALL ATTACHED BASE CABINET	DESIGN CMH	DRAWN BY CMH		
OPM NUMBER OPM-0632 06/21/2021	OPM-0632: Reviewed for Code Compliance by William Staehlin			JENSEN HUGHES 100 Quannapowitt Parkway Suite 401 Wakefield, MA 01880 O: +1 857-259-4968 jensenhughes.com 5 of 8

CABINET DIMENSIONS, WEIGHTS, AND SCREW FORCES

ITEM	DIMENSIONS			CENTER OF GRAVITY			WEIGHT					SCREWS / MAX FORCES		
	LENGTH [in]	DEPTH [in]	HEIGHT [in]	HCG [in]	LCG [in]	DCG [in]	CABINET WT [lb]	COUNTER WT [lb]	MEDIA WT INSIDE [lb]	MEDIA WT TOP [lb]	TOTAL WT [lb]	TOTAL SCREWS	Tu [lb]	Vu [lb]
MM-121414	12.00	14.00	14.50	10.14	6.00	7.00	25	9	47	38	119	24	387	81
MM-151414	15.00	14.00	14.50	10.25	7.50	7.00	26	11	58	48	143	24	277	85
MM-181414	18.00	14.00	14.50	10.32	9.00	7.00	27	14	70	57	168	24	301	88
MM-211414	21.00	14.00	14.50	10.36	10.50	7.00	29	16	81	67	193	24	348	93
MM-241414	24.00	14.00	14.50	10.39	12.00	7.00	31	18	93	77	219	36	263	75
MM-271414	27.00	14.00	14.50	10.40	13.50	7.00	34	21	105	86	245	36	296	79
MM-301414	30.00	14.00	14.50	10.42	15.00	7.00	36	23	116	96	271	36	327	83
MM-331414	33.00	14.00	14.50	10.44	16.50	7.00	38	25	128	105	296	36	358	88
MM-361414	36.00	14.00	14.50	10.46	18.00	7.00	40	28	140	115	322	36	389	92
MM-121416	12.00	14.00	16.00	11.04	6.00	7.00	26	9	51	38	125	24	373	77
MM-151416	15.00	14.00	16.00	11.15	7.50	7.00	27	11	64	48	150	24	251	86
MM-181416	18.00	14.00	16.00	11.23	9.00	7.00	28	14	77	57	176	24	254	91
MM-211416	21.00	14.00	16.00	11.27	10.50	7.00	30	16	90	67	203	24	293	97
MM-241416	24.00	14.00	16.00	11.31	12.00	7.00	32	18	103	77	230	36	222	80
MM-271416	27.00	14.00	16.00	11.31	13.50	7.00	36	21	116	86	258	36	250	84
MM-301416	30.00	14.00	16.00	11.33	15.00	7.00	38	23	128	96	285	36	276	88
MM-331416	33.00	14.00	16.00	11.34	16.50	7.00	41	25	141	105	313	36	303	93
MM-361416	36.00	14.00	16.00	11.36	18.00	7.00	43	28	154	115	339	36	329	98
MM-121424	12.00	14.00	24.00	15.36	6.00	7.00	45	9	77	38	169	24	431	79
MM-151424	15.00	14.00	24.00	15.50	7.50	7.00	48	11	96	48	204	24	248	94
MM-181424	18.00	14.00	24.00	15.61	9.00	7.00	50	14	116	57	237	24	210	108
MM-211424	21.00	14.00	24.00	15.65	10.50	7.00	55	16	135	67	273	24	223	121
MM-241424	24.00	14.00	24.00	15.69	12.00	7.00	60	18	154	77	309	36	169	101
MM-271424	27.00	14.00	24.00	15.76	13.50	7.00	61	21	173	86	341	36	187	108
MM-301424	30.00	14.00	24.00	15.79	15.00	7.00	64	23	193	96	375	36	206	115
MM-331424	33.00	14.00	24.00	15.83	16.50	7.00	67	25	212	105	409	36	225	123
MM-361424	36.00	14.00	24.00	15.85	18.00	7.00	70	28	231	115	443	36	244	130
MM-121429	12.00	14.00	29.00	18.11	6.00	7.00	50	9	93	38	190	24	467	83
MM-151429	15.00	14.00	29.00	18.26	7.50	7.00	53	11	116	48	229	24	258	100
MM-181429	18.00	14.00	29.00	18.38	9.00	7.00	55	14	140	57	266	24	213	115
MM-211429	21.00	14.00	29.00	18.44	10.50	7.00	60	16	163	67	306	24	212	131
MM-241429	24.00	14.00	29.00	18.48	12.00	7.00	65	18	186	77	346	36	186	109
MM-271429	27.00	14.00	29.00	18.50	13.50	7.00	71	21	209	86	387	36	180	120
MM-301429	30.00	14.00	29.00	18.54	15.00	7.00	74	23	233	96	425	36	198	129
MM-331429	33.00	14.00	29.00	18.58	16.50	7.00	77	25	256	105	463	36	216	137
MM-361429	36.00	14.00	29.00	18.62	18.00	7.00	80	28	279	115	501	36	234	146
MM-121432	12.00	14.00	32.00	19.70	6.00	7.00	55	9	103	38	205	24	496	86
MM-151432	15.00	14.00	32.00	19.86	7.50	7.00	58	11	128	48	246	24	269	104
MM-181432	18.00	14.00	32.00	19.99	9.00	7.00	60	14	154	57	285	24	218	120
MM-211432	21.00	14.00	32.00	20.05	10.50	7.00	65	16	180	67	328	24	212	137
MM-241432	24.00	14.00	32.00	20.10	12.00	7.00	70	18	205	77	370	36	170	114
MM-271432	27.00	14.00	32.00	20.08	13.50	7.00	81	21	231	86	419	36	180	127
MM-301432	30.00	14.00	32.00	20.13	15.00	7.00	84	23	257	96	459	36	198	137
MM-331432	33.00	14.00	32.00	20.18	16.50	7.00	87	25	282	105	500	36	216	146
MM-361432	36.00	14.00	32.00	20.21	18.00	7.00	90	28	308	115	540	36	234	156
MM-121814	12.00	18.25	14.50	10.27	6.00	9.13	26	12	61	50	148	24	630	104
MM-151814	15.00	18.25	14.50	10.36	7.50	9.13	27	15	76	62	180	24	454	109
MM-181814	18.00	18.25	14.50	10.43	9.00	9.13	28	18	91	75	212	24	451	113
MM-211814	21.00	18.25	14.50	10.45	10.50	9.13	31	21	106	87	245	24	523	119
MM-241814	24.00	18.25	14.50	10.46	12.00	9.13	34	24	121	100	279	36	397	97
MM-271814	27.00	18.25	14.50	10.49	13.50	9.13	36	27	136	112	312	36	444	102
MM-301814	30.00	18.25	14.50	10.51	15.00	9.13	38	30	152	125	344	36	491	107
MM-331814	33.00	18.25	14.50	10.52	16.50	9.13	40	33	167	137	377	36	538	112
MM-361814	36.00	18.25	14.50	10.53	18.00	9.13	42	36	182	150	409	36	585	118
MM-121816	12.00	18.25	16.00	11.18	6.00	9.13	27	12	67	50	156	24	608	98
MM-151816	15.00	18.25	16.00	11.27	7.50	9.13	28	15	84	62	189	24	411	109
MM-181816	18.00	18.25	16.00	11.34	9.00	9.13	29	18	100	75	222	24	388	117
MM-211816	21.00	18.25	16.00	11.36	10.50	9.13	32	21	117	87	257	24	436	125
MM-241816	24.00	18.25	16.00	11.38	12.00	9.13	35	24	134	100	293	36	331	102
MM-271816	27.00	18.25	16.00	11.42	13.50	9.13	36	27	151	112	326	36	369	107
MM-301816	30.00	18.25	16.00	11.43	15.00	9.13	39	30	167	125	361	36	409	113



William Staehlin
05/27/2021

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	PRODUCT LINE CAROLINA MILE MARKER	DATE 05/27/2021		
OPM NUMBER OPM-0632 06/21/2021	EQUIPMENT DESCRIPTION WALL ATTACHED BASE CABINET	DESIGN CMH	DRAWN BY CMH	CHECKED BY KPD
		SHEET 4 OF 6	OPM-0632: Reviewed for Code Compliance by William Staehlin	

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CABINET DIMENSIONS, WEIGHTS, AND SCREW FORCES

ITEM	DIMENSIONS			CENTER OF GRAVITY			WEIGHT					SCREWS / MAX FORCES		
	LENGTH [in]	DEPTH [in]	HEIGHT [in]	HCG [in]	LCG [in]	DCG [in]	CABINET WT [lb]	COUNTER WT [lb]	MEDIA WT INSIDE [lb]	MEDIA WT TOP [lb]	TOTAL WT [lb]	TOTAL SCREWS	Tu [lb]	Vu [lb]
MM-331816	33.00	18.25	16.00	11.44	16.50	9.13	41	33	184	137	395	36	449	119
MM-361816	38.00	18.25	16.00	11.46	18.00	9.13	43	36	201	150	429	36	488	125
MM-121824	12.00	18.25	24.00	15.42	6.00	9.13	55	12	100	50	217	24	720	101
MM-151824	15.00	18.25	24.00	15.56	7.50	9.13	58	15	125	62	261	24	415	121
MM-181824	18.00	18.25	24.00	15.67	9.00	9.13	60	18	151	75	303	24	351	139
MM-211824	21.00	18.25	24.00	15.72	10.50	9.13	65	21	176	87	349	24	336	156
MM-241824	24.00	18.25	24.00	15.76	12.00	9.13	70	24	201	100	394	36	278	130
MM-271824	27.00	18.25	24.00	15.87	13.50	9.13	66	27	226	112	431	36	272	138
MM-301824	30.00	18.25	24.00	15.91	15.00	9.13	69	30	251	125	475	36	294	148
MM-331824	33.00	18.25	24.00	15.94	16.50	9.13	72	33	276	137	518	36	322	157
MM-361824	36.00	18.25	24.00	15.96	18.00	9.13	75	36	301	150	562	36	349	165
MM-121829	12.00	18.25	29.00	18.19	6.00	9.13	60	12	121	50	243	24	778	106
MM-151829	15.00	18.25	29.00	18.34	7.50	9.13	63	15	152	62	292	24	430	128
MM-181829	18.00	18.25	29.00	18.46	9.00	9.13	65	18	182	75	340	24	354	148
MM-211829	21.00	18.25	29.00	18.52	10.50	9.13	70	21	212	87	390	24	331	168
MM-241829	24.00	18.25	29.00	18.56	12.00	9.13	75	24	243	100	441	36	277	141
MM-271829	27.00	18.25	29.00	18.63	13.50	9.13	76	27	273	112	488	36	271	152
MM-301829	30.00	18.25	29.00	18.68	15.00	9.13	79	30	303	125	537	36	278	164
MM-331829	33.00	18.25	29.00	18.71	16.50	9.13	82	33	334	137	586	36	304	175
MM-361829	36.00	18.25	29.00	18.74	18.00	9.13	85	36	364	150	634	36	330	186
MM-121832	12.00	18.25	32.00	19.80	6.00	9.13	65	12	134	50	261	24	822	110
MM-151832	15.00	18.25	32.00	19.96	7.50	9.13	68	15	167	62	313	24	447	133
MM-181832	18.00	18.25	32.00	20.08	9.00	9.13	70	18	201	75	364	24	363	154
MM-211832	21.00	18.25	32.00	20.15	10.50	9.13	75	21	234	87	417	24	335	176
MM-241832	24.00	18.25	32.00	20.20	12.00	9.13	80	24	268	100	471	36	282	147
MM-271832	27.00	18.25	32.00	20.36	13.50	9.13	86	27	303	112	518	36	299	185
MM-301832	30.00	18.25	32.00	20.42	15.00	9.13	89	30	335	125	578	36	277	174
MM-331832	33.00	18.25	32.00	20.52	16.50	9.13	92	33	368	137	630	36	302	186
MM-361832	36.00	18.25	32.00	20.58	18.00	9.13	95	36	402	150	682	36	327	198
MM-122414	12.00	24.25	14.50	10.26	6.00	12.13	35	16	81	66	198	24	1115	139
MM-152414	15.00	24.25	14.50	10.36	7.50	12.13	36	20	101	83	239	24	801	145
MM-182414	18.00	24.25	14.50	10.43	9.00	12.13	37	24	121	99	281	24	780	150
MM-212414	21.00	24.25	14.50	10.47	10.50	12.13	39	28	141	116	324	24	837	157
MM-242414	24.00	24.25	14.50	10.50	12.00	12.13	41	32	161	133	366	36	644	128
MM-272414	27.00	24.25	14.50	10.53	13.50	12.13	43	36	181	149	409	36	707	134
MM-302414	30.00	24.25	14.50	10.55	15.00	12.13	45	40	201	166	452	36	782	141
MM-332414	33.00	24.25	14.50	10.56	16.50	12.13	47	44	222	182	495	36	856	148
MM-362414	36.00	24.25	14.50	10.57	18.00	12.13	50	48	242	199	538	36	932	156
MM-122416	12.00	24.25	16.00	11.17	6.00	12.13	36	16	89	66	207	24	1073	131
MM-152416	15.00	24.25	16.00	11.28	7.50	12.13	37	20	111	83	251	24	725	145
MM-182416	18.00	24.25	16.00	11.35	9.00	12.13	38	24	133	99	295	24	683	155
MM-212416	21.00	24.25	16.00	11.39	10.50	12.13	40	28	156	116	339	24	699	165
MM-242416	24.00	24.25	16.00	11.42	12.00	12.13	42	32	178	133	384	36	559	135
MM-272416	27.00	24.25	16.00	11.45	13.50	12.13	44	36	200	149	429	36	584	142
MM-302416	30.00	24.25	16.00	11.47	15.00	12.13	46	40	222	166	474	36	645	149
MM-332416	33.00	24.25	16.00	11.49	16.50	12.13	48	44	245	182	518	36	707	157
MM-362416	36.00	24.25	16.00	11.50	18.00	12.13	50	48	267	199	563	36	769	165
MM-122424	12.00	24.25	24.00	15.64	6.00	12.13	55	16	133	66	271	24	1191	129
MM-152424	15.00	24.25	24.00	15.76	7.50	12.13	58	20	167	83	327	24	692	155
MM-182424	18.00	24.25	24.00	15.86	9.00	12.13	60	24	200	99	383	24	590	179
MM-212424	21.00	24.25	24.00	15.90	10.50	12.13	65	28	233	116	442	24	566	200
MM-242424	24.00	24.25	24.00	15.94	12.00	12.13	70	32	267	133	501	36	469	168
MM-272424	27.00	24.25	24.00	15.99	13.50	12.13	71	36	300	149	556	36	466	180
MM-302424	30.00	24.25	24.00	16.02	15.00	12.13	74	40	333	166	613	36	473	192
MM-332424	33.00	24.25	24.00	16.05	16.50	12.13	77	44	367	182	670	36	483	204
MM-362424	36.00	24.25	24.00	16.07	18.00	12.13	80	48	400	199	727	36	525	216
MM-122429	12.00	24.25	29.00	18.43	6.00	12.13	60	16	161	66	303	24	1289	135
MM-152429	15.00	24.25	29.00	18.56	7.50	12.13	63	20	201	83	367	24	719	163
MM-182429	18.00	24.25	29.00	18.66	9.00	12.13	65	24	242	99	430	24	596	190
MM-212429	21.00	24.25	29.00	18.71	10.50	12.13	70	28	282	116	496	24	558	216
MM-242429	24.00	24.25	29.00	18.74	12.00	12.13	75	32	322	133	562	36	468	182

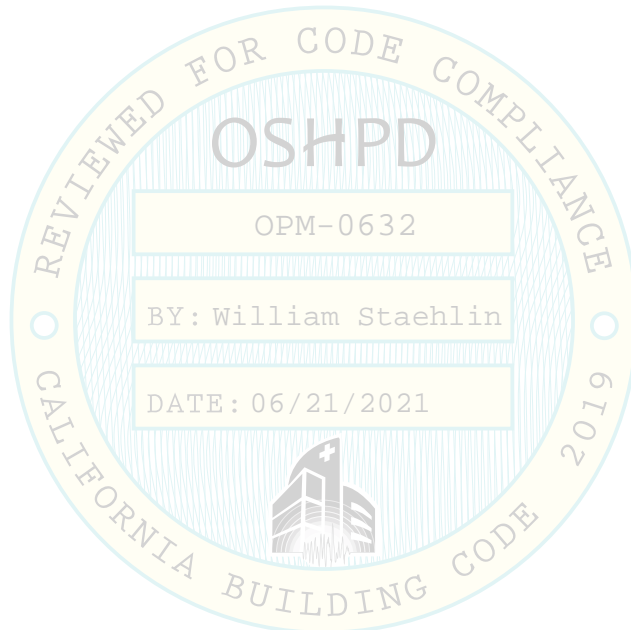


Kevin Dommer
05/27/2021


TITLE OFS CAROLINA MILE MARKER HANGING BASE CABINETS	MANUFACTURER OFS	PROJECT NO 1CMH00005.000	EQUIPMENT OFS CAROLINA MILE MARKER HANGING BASE CABINETS WITH PRODUCT NUMBERS ENDING IN HBC, HBCD, HBCDGB, HBCDD, HBC1, HBC2, HBC3, HBC4, HBCWP, HBCP, HBCDD2, HBSC, HBSCFD.	100 Quannapowitt Parkway Suite 401 Wakefield, MA 01880 O: +1 857-259-4968 jensenhughes.com
	PRODUCT LINE CAROLINA MILE MARKER	DATE 05/27/2021		
OPM NUMBER OPM-0632 06/21/2021	EQUIPMENT DESCRIPTION WALL ATTACHED BASE CABINET	DESIGN CMH	DRAWN BY CMH	CHECKED BY KPD
OPM-0632: Reviewed for Code Compliance by William Staehlin		SHEET 5 OF 6	7 of 8	

CABINET DIMENSIONS, WEIGHTS, AND SCREW FORCES

ITEM	DIMENSIONS			CENTER OF GRAVITY			WEIGHT				SCREWS / MAX FORCES			
	LENGTH [in]	DEPTH [in]	HEIGHT [in]	HCG [in]	LCG [in]	DCG [in]	CABINET WT [lb]	COUNTER WT [lb]	MEDIA WT INSIDE [lb]	MEDIA WT TOP [lb]	TOTAL WT [lb]	TOTAL SCREWS	Tu [lb]	Vu [lb]
MM-272429	27.00	24.25	29.00	18.77	13.50	12.13	81	36	383	149	628	36	463	198
MM-302429	30.00	24.25	29.00	18.80	15.00	12.13	84	40	403	166	692	36	463	213
MM-332429	33.00	24.25	29.00	18.83	16.50	12.13	87	44	443	182	756	36	468	228
MM-362429	36.00	24.25	29.00	18.86	18.00	12.13	90	48	483	199	820	36	487	242
MM-122432	12.00	24.25	32.00	20.05	6.00	12.13	65	16	178	66	325	24	1362	140
MM-152432	15.00	24.25	32.00	20.18	7.50	12.13	68	20	222	83	393	24	747	170
MM-182432	18.00	24.25	32.00	20.29	9.00	12.13	70	24	267	99	460	24	610	198
MM-212432	21.00	24.25	32.00	20.34	10.50	12.13	75	28	311	116	530	24	565	226
MM-242432	24.00	24.25	32.00	20.38	12.00	12.13	80	32	356	133	600	36	476	190
MM-272432	33.00	24.25	32.00	20.49	16.50	12.13	91	44	489	182	806	36	468	241
MM-302432	30.00	24.25	32.00	20.42	15.00	12.13	94	40	445	166	744	36	469	226
MM-332432	33.00	24.25	32.00	20.45	16.50	12.13	97	44	489	182	812	36	471	242
MM-362432	36.00	24.25	32.00	20.48	18.00	12.13	100	48	534	199	880	36	478	258



Kevin Dommer
05/27/2021

TITLE OFS CAROLINA MILE MARKER HANGING BASE CABINETS	MANUFACTURER OFS	PROJECT NO 1CMH00005.000	EQUIPMENT OFS CAROLINA MILE MARKER HANGING BASE CABINETS WITH PRODUCT NUMBERS ENDING IN HBC, HBCD, HBCDGB, HBCDD, HBC1, HBC2, HBC3, HBC4, HBCWP, HBCP, HBCDD2, HBSC, HBSCFD.	 100 Quannapowitt Parkway Suite 401 Wakefield, MA 01880 O: +1 857-259-4968 jensenhughes.com
	PRODUCT LINE CAROLINA MILE MARKER	DATE 05/27/2021		
OPM NUMBER OPM-0632 06/21/2021	EQUIPMENT DESCRIPTION WALL ATTACHED BASE CABINET	DESIGN CMH	DRAWN BY CMH	CHECKED BY KPD
		SHEET 6 OF 6	OPM-0632: Reviewed for Code Compliance by William Staehlin	