



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

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

OFFICE USE ONLY

APPLICATION #: OPM-0605

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: () - Email: dmehringer@ofs.com

Product Information

Product Name: OFS Carolina Mile Marker

Product Type: Storage Cabinet

Product Model Number: Storage cabinets with product numbers ending in SC, SCS, SCS, SCD, SCDS, SCDGB, SCDGBS, SCD2, SCD2S, SCDZ, SCDZS, SCD4, SCD4S.

General Description: Floor supported storage cabinets attached to the wall

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: 3/30/2021
 Name: William Staehlin Title: Senior Structural Engineer
 Condition of Approval (if applicable): _____

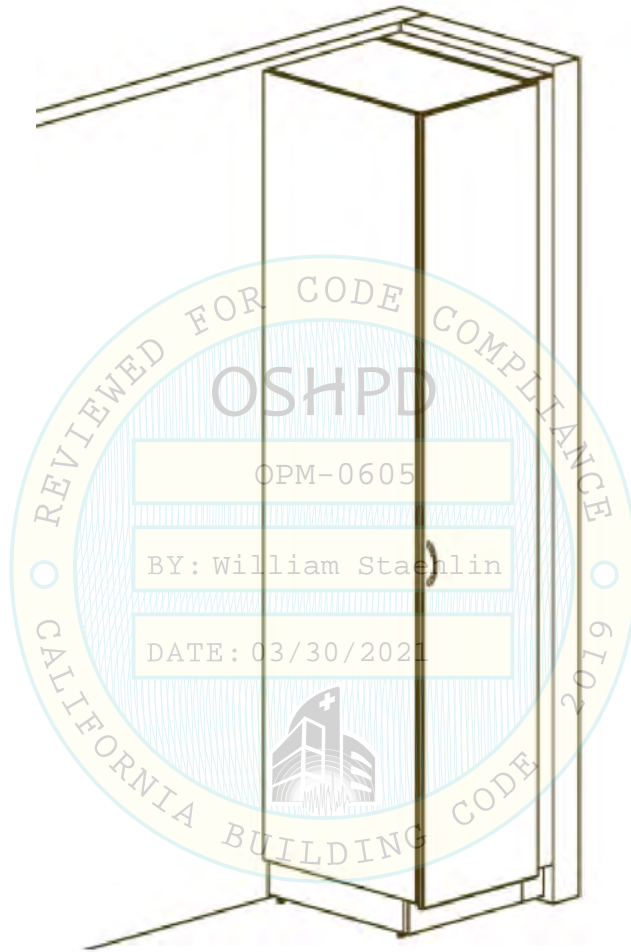
Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs



OPM-0605 OFS CAROLINA MILE MARKER STORAGE CABINETS

EQUIPMENT

ITEMS INCLUDED IN THIS DESIGN INCLUDE OFS CAROLINA MILE MARKER FLOOR RESTING/WALL ATTACHED OFS CAROLINA MILE MARKER STORAGE CABINETS WITH PRODUCT NUMBERS ENDING IN SC, SCS, SCD, SCDS, SCDGB, SCDGBS, SCD2, SCD2S, SCDZ, SCDZS, SCD4, OR SCD4S. STRUCTURAL ENGINEER OF RECORD MUST VERIFY ALL ITEMS WITH THE SPECIFIED DIMENSIONS AND WEIGHTS INCLUDED IN THE TABLE STARTING ON SHEET 4.



ISOMETRIC VIEW

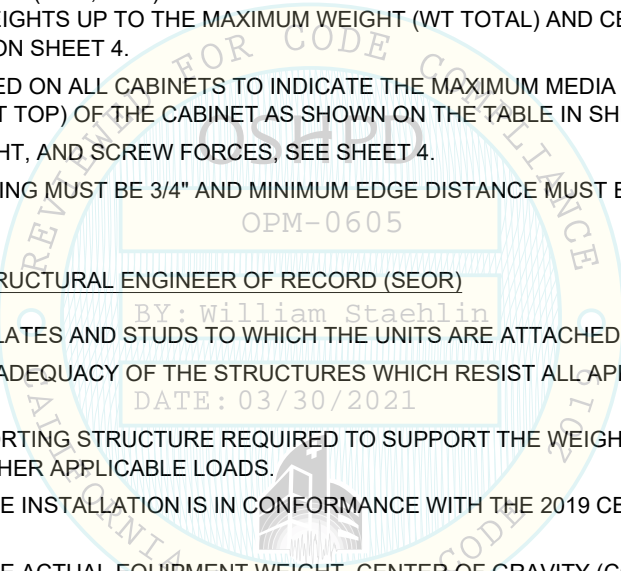


Kevin Dommer
03/30/2021

TITLE OFS CAROLINA MILE MARKER STORAGE CABINETS	MANUFACTURER OFS	PROJECT NO 1CMH00005.000	EQUIPMENT OFS CAROLINA MILE MARKER STORAGE CABINETS WITH PRODUCT NUMBERS ENDING IN SC, SCS, SCD, SCDS, SCDGB, SCDGBS, SCD2, SCD2S, SCDZ, SCDZS, SCD4, OR SCD4S.			 JENSEN HUGHES 100 Quannapowitt Parkway Suite 401 Wakefield, MA 01880 O: +1 857-259-4968 jensenhughes.com
	PRODUCT LINE CAROLINA MILE MARKER	DATE 03/30/2021	DESIGN CMH	DRAWN BY CMH	CHECKED BY KPD	
	EQUIPMENT DESCRIPTION FLOOR SUPPORTED STORAGE CABINET	SHEET 1 OF 7	OPM-0605: Reviewed for Code Compliance by William Staehlin			
OPM NUMBER OPM-0605 3/30/2021					3 of 9	

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. $S_{DS}=2.50G$; $a_p=1.0$; $I_p=1.5$; $R_p=2.5$; $z/h \leq 1.0$
 - 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 $S_{DS} \leq 2.50G$ 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 4 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 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 SHEET 4.
11. MINIMUM SCREW SPACING MUST BE 3/4" AND MINIMUM EDGE DISTANCE MUST BE 3/8".



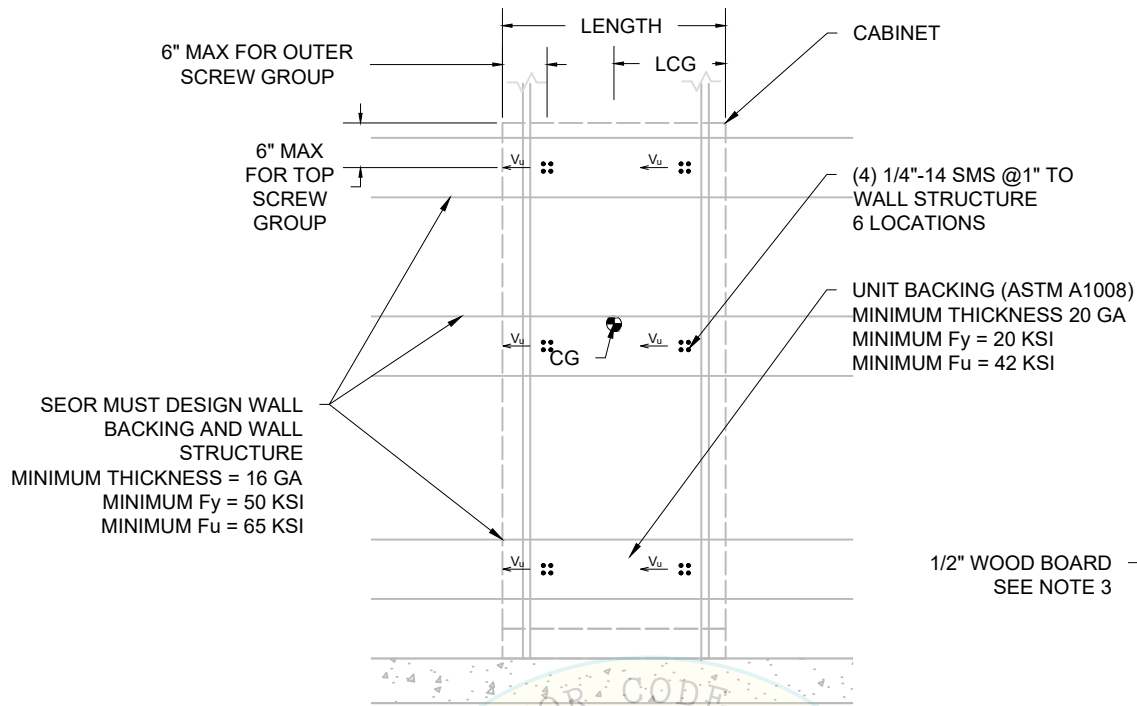
RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD (SEOR)

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.



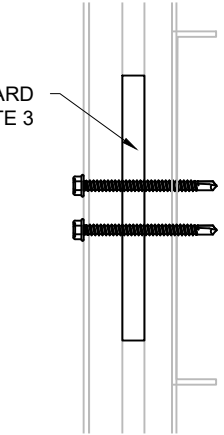
William Staehlin
03/30/2021

TITLE OFS CAROLINA MILE MARKER STORAGE CABINETS	MANUFACTURER OFS	PROJECT NO 1CMH00005.000	EQUIPMENT OFS CAROLINA MILE MARKER STORAGE CABINETS WITH PRODUCT NUMBERS ENDING IN SC, SCS, SCD, SCDs, SCDGB, SCDGBS, SCD2, SCD2S, SCDZ, SCDZS, SCD4, OR SCD4S.		
	PRODUCT LINE CAROLINA MILE MARKER	DATE 03/30/2021			
	EQUIPMENT DESCRIPTION FLOOR SUPPORTED STORAGE CABINET	DESIGN CMH			
OPM NUMBER OPM-0605 3/30/2021	SHEET 2 OF 7 OPM-0605: Reviewed for Code Compliance by William Staehlin			4 of 9	



SEOR MUST DESIGN WALL BACKING AND WALL STRUCTURE
 MINIMUM THICKNESS = 16 GA
 MINIMUM Fy = 50 KSI
 MINIMUM Fu = 65 KSI

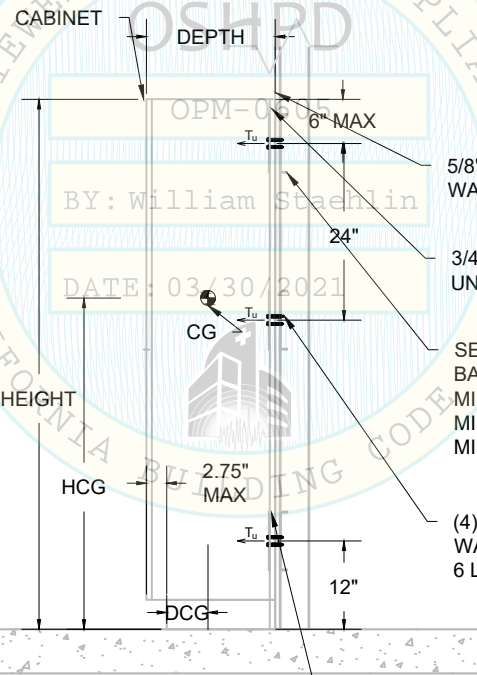
1/2" WOOD BOARD
 SEE NOTE 3



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 1/2" WOOD BOARD IN THE 1/2" 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.
4. FOR CABINETS WITH SLOPED TOPS, THE HEIGHT REPRESENTS THE HIGHEST POINT OF THE SLOPE



SIDE ELEVATION

5/8" THICK MAX WALLBOARD

3/4" THICK WOOD UNIT BACKING

SEOR MUST DESIGN WALL BACKING AND WALL STRUCTURE
 MINIMUM THICKNESS = 16 GA
 MINIMUM Fy = 50 KSI
 MINIMUM Fu = 65 KSI

(4) 1/4"-14 SMS @1" TO WALL STRUCTURE
 6 LOCATIONS

UNIT BACKING (ASTM A1008)
 MINIMUM THICKNESS 20 GA
 MINIMUM Fy = 20 KSI
 MINIMUM Fu = 42 KSI



Kevin Dommer
 03/30/2021

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	PRODUCT LINE CAROLINA MILE MARKER	DATE 03/30/2021	 JENSEN HUGHES 100 Quannapowitt Parkway Suite 401 Wakefield, MA 01880 O: +1 857-259-4968 jensenhughes.com	
	EQUIPMENT DESCRIPTION FLOOR SUPPORTED STORAGE CABINET	DESIGN CMH		
OPM NUMBER OPM-0605 3/30/2021	SHEET 3 OF 7 OPM-0605: Reviewed for Code Compliance by William Staehlin			5 of 9

CABINET DIMENSIONS, WEIGHTS, AND SCREW FORCES

ITEM	DIMENSIONS			CENTER OF GRAVITY			WEIGHT				MAX GROUP FORCE	
	LENGTH [in]	DEPTH [in]	HEIGHT [in]	HCG [in]	LCG [in]	DCG [in]	CABINET WT [lb]	MEDIA WT INSIDE [lb]	MEDIA WT TOP [lb]	TOTAL WT [lb]	Tu [lb]	Vu [lb]
MM-121460	12.00	13.19	60.00	35.04	6.00	3.85	115	181	36	332	184	70
MM-151460	15.00	13.19	60.00	35.24	7.50	3.85	118	227	45	390	184	82
MM-181460	18.00	13.19	60.00	35.39	9.00	3.85	120	272	54	446	201	94
MM-211460	21.00	13.19	60.00	35.51	10.50	3.85	123	317	63	503	220	106
MM-241460	24.00	13.19	60.00	35.61	12.00	3.85	125	363	72	560	241	118
MM-271460	27.00	13.19	60.00	35.67	13.50	3.85	130	408	81	619	262	130
MM-301460	30.00	13.19	60.00	35.72	15.00	3.85	135	453	90	679	285	142
MM-331460	33.00	13.19	60.00	35.76	16.50	3.85	140	499	99	738	307	155
MM-361460	36.00	13.19	60.00	35.80	18.00	3.85	145	544	108	797	330	167
MM-121466	12.00	13.19	66.00	38.14	6.00	3.85	120	199	36	356	197	75
MM-151466	15.00	13.19	66.00	38.35	7.50	3.85	123	249	45	417	195	88
MM-181466	18.00	13.19	66.00	38.50	9.00	3.85	125	299	54	478	213	100
MM-211466	21.00	13.19	66.00	38.62	10.50	3.85	128	349	63	540	234	113
MM-241466	24.00	13.19	66.00	38.72	12.00	3.85	130	399	72	601	255	126
MM-271466	27.00	13.19	66.00	38.78	13.50	3.85	135	449	81	665	278	140
MM-301466	30.00	13.19	66.00	38.83	15.00	3.85	140	499	90	729	302	153
MM-331466	33.00	13.19	66.00	38.88	16.50	3.85	145	549	99	793	325	166
MM-361466	36.00	13.19	66.00	38.91	18.00	3.85	150	598	108	857	349	180
MM-121472	12.00	13.19	72.00	41.24	6.00	3.85	125	218	36	379	210	80
MM-151472	15.00	13.19	72.00	41.44	7.50	3.85	128	272	45	445	206	93
MM-181472	18.00	13.19	72.00	41.60	9.00	3.85	130	326	54	511	225	107
MM-211472	21.00	13.19	72.00	41.72	10.50	3.85	133	381	63	577	247	121
MM-241472	24.00	13.19	72.00	41.82	12.00	3.85	135	435	72	642	269	135
MM-271472	27.00	13.19	72.00	41.88	13.50	3.85	140	490	81	711	294	149
MM-301472	30.00	13.19	72.00	41.93	15.00	3.85	145	544	90	779	319	164
MM-331472	33.00	13.19	72.00	41.98	16.50	3.85	150	598	99	848	344	178
MM-361472	36.00	13.19	72.00	42.01	18.00	3.85	155	653	108	916	369	192
MM-121478	12.00	13.19	78.00	44.32	6.00	3.85	130	236	36	402	223	84
MM-151478	15.00	13.19	78.00	44.53	7.50	3.85	133	295	45	473	217	99
MM-181478	18.00	13.19	78.00	44.69	9.00	3.85	135	354	54	543	237	114
MM-211478	21.00	13.19	78.00	44.80	10.50	3.85	138	413	63	614	260	129
MM-241478	24.00	13.19	78.00	44.90	12.00	3.85	140	472	72	684	284	144
MM-271478	27.00	13.19	78.00	44.97	13.50	3.85	145	530	81	757	310	159
MM-301478	30.00	13.19	78.00	45.02	15.00	3.85	150	589	90	830	336	174
MM-331478	33.00	13.19	78.00	45.06	16.50	3.85	155	648	99	903	362	190
MM-361478	36.00	13.19	78.00	45.10	18.00	3.85	160	707	108	975	389	205
MM-121484	12.00	13.19	84.00	47.39	6.00	3.85	135	254	36	425	236	89
MM-151484	15.00	13.19	84.00	47.60	7.50	3.85	138	317	45	500	228	105
MM-181484	18.00	13.19	84.00	47.76	9.00	3.85	140	381	54	575	249	121
MM-211484	21.00	13.19	84.00	47.88	10.50	3.85	143	444	63	650	273	137
MM-241484	24.00	13.19	84.00	47.98	12.00	3.85	145	508	72	725	298	152
MM-271484	27.00	13.19	84.00	48.04	13.50	3.85	150	571	81	802	325	169
MM-301484	30.00	13.19	84.00	48.10	15.00	3.85	155	635	90	880	353	185
MM-331484	33.00	13.19	84.00	48.14	16.50	3.85	160	698	99	957	381	201
MM-361484	36.00	13.19	84.00	48.18	18.00	3.85	165	762	108	1035	409	217
MM-121860	12.00	17.50	60.00	35.28	6.00	6.00	120	241	48	408	280	86
MM-151860	15.00	17.50	60.00	35.46	7.50	6.00	123	301	60	484	235	102
MM-181860	18.00	17.50	60.00	35.60	9.00	6.00	125	361	72	558	255	117
MM-211860	21.00	17.50	60.00	35.70	10.50	6.00	128	421	84	633	279	133
MM-241860	24.00	17.50	60.00	35.79	12.00	6.00	130	481	96	707	303	148
MM-271860	27.00	17.50	60.00	35.80	13.50	6.00	145	541	108	794	334	167
MM-301860	30.00	17.50	60.00	35.84	15.00	6.00	150	602	120	871	361	183
MM-331860	33.00	17.50	60.00	35.88	16.50	6.00	155	662	132	948	389	199
MM-361860	36.00	17.50	60.00	35.92	18.00	6.00	160	722	144	1025	416	215
MM-121866	12.00	17.50	66.50	38.65	6.00	6.00	125	267	48	440	303	92
MM-151866	15.00	17.50	66.50	38.84	7.50	6.00	128	333	60	521	253	109
MM-181866	18.00	17.50	66.50	38.98	9.00	6.00	130	400	72	602	273	126
MM-211866	21.00	17.50	66.50	39.08	10.50	6.00	133	467	84	683	298	144
MM-241866	24.00	17.50	66.50	39.16	12.00	6.00	135	533	96	764	324	160
MM-271866	27.00	17.50	66.50	39.17	13.50	6.00	150	600	108	858	357	180



Kevin Dommer
03/30/2021

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	EQUIPMENT DESCRIPTION FLOOR SUPPORTED STORAGE CABINET	DESIGN CMH	
OPM NUMBER OPM-0605 3/30/2021	SHEET 4 OF 7		

OPM-0605: Reviewed for Code Compliance by William Staehlin		
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JENSEN HUGHES

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Wakefield, MA 01880
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jensenhughes.com

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CABINET DIMENSIONS, WEIGHTS, AND SCREW FORCES (CON'T)

ITEM	DIMENSIONS			CENTER OF GRAVITY			WEIGHT				MAX GROUP FORCE	
	LENGTH [in]	DEPTH [in]	HEIGHT [in]	HCG [in]	LCG [in]	DCG [in]	CABINET WT [lb]	MEDIA WT INSIDE [lb]	MEDIA WT TOP [lb]	TOTAL WT [lb]	Tu [lb]	Vu [lb]
MM-301866	30.00	17.50	66.50	39.22	15.00	6.00	155	667	120	941	386	198
MM-331866	33.00	17.50	66.50	39.26	16.50	6.00	160	733	132	1025	415	215
MM-361866	36.00	17.50	66.50	39.30	18.00	6.00	165	800	144	1109	445	233
MM-121872	12.00	17.50	72.50	41.75	6.00	6.00	130	291	48	469	324	98
MM-151872	15.00	17.50	72.50	41.93	7.50	6.00	133	363	60	556	271	117
MM-181872	18.00	17.50	72.50	42.07	9.00	6.00	135	436	72	643	289	135
MM-211872	21.00	17.50	72.50	42.17	10.50	6.00	138	509	84	731	316	153
MM-241872	24.00	17.50	72.50	42.26	12.00	6.00	140	582	96	817	344	172
MM-271872	27.00	17.50	72.50	42.27	13.50	6.00	155	654	108	917	378	193
MM-301872	30.00	17.50	72.50	42.32	15.00	6.00	160	727	120	1006	409	211
MM-331872	33.00	17.50	72.50	42.36	16.50	6.00	165	800	132	1096	440	230
MM-361872	36.00	17.50	72.50	42.39	18.00	6.00	170	872	144	1186	472	249
MM-121878	12.00	17.50	78.50	44.83	6.00	6.00	135	315	48	498	345	105
MM-151878	15.00	17.50	78.50	45.02	7.50	6.00	138	394	60	591	289	124
MM-181878	18.00	17.50	78.50	45.16	9.00	6.00	140	472	72	684	306	144
MM-211878	21.00	17.50	78.50	45.26	10.50	6.00	143	551	84	778	334	163
MM-241878	24.00	17.50	78.50	45.34	12.00	6.00	145	630	96	870	364	183
MM-271878	27.00	17.50	78.50	45.36	13.50	6.00	160	708	108	976	400	205
MM-301878	30.00	17.50	78.50	45.41	15.00	6.00	165	787	120	1072	432	225
MM-331878	33.00	17.50	78.50	45.45	16.50	6.00	170	866	132	1167	465	245
MM-361878	36.00	17.50	78.50	45.48	18.00	6.00	175	944	144	1263	499	265
MM-121884	12.00	17.50	84.50	47.91	6.00	6.00	140	339	48	527	365	111
MM-151884	15.00	17.50	84.50	48.09	7.50	6.00	143	424	60	626	307	132
MM-181884	18.00	17.50	84.50	48.23	9.00	6.00	145	508	72	725	322	152
MM-211884	21.00	17.50	84.50	48.34	10.50	6.00	148	593	84	825	352	173
MM-241884	24.00	17.50	84.50	48.42	12.00	6.00	150	678	96	923	384	194
MM-271884	27.00	17.50	84.50	48.43	13.50	6.00	165	762	108	1035	421	217
MM-301884	30.00	17.50	84.50	48.48	15.00	6.00	170	847	120	1137	456	239
MM-331884	33.00	17.50	84.50	48.53	16.50	6.00	175	932	132	1238	491	260
MM-361884	36.00	17.50	84.50	48.66	18.00	6.00	180	1017	144	1340	526	281
MM-122460	12.00	23.50	60.00	35.51	6.00	9.00	125	323	64	512	447	108
MM-152460	15.00	23.50	60.00	35.67	7.50	9.00	128	404	80	612	366	129
MM-182460	18.00	23.50	60.00	35.79	9.00	9.00	130	485	96	711	332	149
MM-212460	21.00	23.50	60.00	35.88	10.50	9.00	133	565	112	811	359	170
MM-242460	24.00	23.50	60.00	35.95	12.00	9.00	135	646	128	910	389	191
MM-272460	27.00	23.50	60.00	35.92	13.50	9.00	160	727	145	1032	428	217
MM-302460	30.00	23.50	60.00	35.97	15.00	9.00	165	808	161	1133	461	238
MM-332460	33.00	23.50	60.00	36.00	16.50	9.00	170	889	177	1235	494	259
MM-362460	36.00	23.50	60.00	36.04	18.00	9.00	175	969	193	1337	528	281
MM-122466	12.00	23.50	66.00	38.62	6.00	9.00	130	355	64	550	482	115
MM-152466	15.00	23.50	66.00	38.79	7.50	9.00	133	444	80	658	397	138
MM-182466	18.00	23.50	66.00	38.91	9.00	9.00	135	533	96	765	357	161
MM-212466	21.00	23.50	66.00	38.99	10.50	9.00	138	622	112	872	385	183
MM-242466	24.00	23.50	66.00	39.07	12.00	9.00	140	711	128	979	417	206
MM-272466	27.00	23.50	66.00	39.04	13.50	9.00	165	800	145	1109	458	233
MM-302466	30.00	23.50	66.00	39.08	15.00	9.00	170	889	161	1219	494	256
MM-332466	33.00	23.50	66.00	39.12	16.50	9.00	175	977	177	1329	530	279
MM-362466	36.00	23.50	66.00	39.15	18.00	9.00	180	1066	193	1439	566	302
MM-122472	12.00	23.50	72.00	41.72	6.00	9.00	135	388	64	587	517	123
MM-152472	15.00	23.50	72.00	41.88	7.50	9.00	138	485	80	703	427	148
MM-182472	18.00	23.50	72.00	42.00	9.00	9.00	140	582	96	818	385	172
MM-212472	21.00	23.50	72.00	42.09	10.50	9.00	143	679	112	934	410	196
MM-242472	24.00	23.50	72.00	42.16	12.00	9.00	145	776	128	1049	444	220
MM-272472	27.00	23.50	72.00	42.14	13.50	9.00	170	872	145	1187	489	249
MM-302472	30.00	23.50	72.00	42.18	15.00	9.00	175	969	161	1305	526	274
MM-332472	33.00	23.50	72.00	42.22	16.50	9.00	180	1066	177	1423	565	299
MM-362472	36.00	23.50	72.00	42.25	18.00	9.00	185	1163	193	1541	603	324
MM-122478	12.00	23.50	78.00	44.81	6.00	9.00	140	420	64	624	552	131
MM-152478	15.00	23.50	78.00	44.97	7.50	9.00	143	525	80	748	457	157
MM-182478	18.00	23.50	78.00	45.09	9.00	9.00	145	630	96	871	413	183



Kevin Dommer
03/30/2021

TITLE OFS CAROLINA MILE MARKER STORAGE CABINETS	MANUFACTURER OFS	PROJECT NO 1CMH00005.000	EQUIPMENT OFS CAROLINA MILE MARKER STORAGE CABINETS WITH PRODUCT NUMBERS ENDING IN SC, SCS, SCD, SCD5, SCDGB, SCDGBS, SCD2, SCD2S, SCDZ, SCDZS, SCD4, OR SCD4S.
	PRODUCT LINE CAROLINA MILE MARKER	DATE 03/30/2021	
	EQUIPMENT DESCRIPTION FLOOR SUPPORTED STORAGE CABINET	DESIGN CMH	
OPM NUMBER OPM-0605 3/30/2021	SHEET 5 OF 7		

OPM-0605: Reviewed for Code Compliance by William Staehlin			
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100 Quannapowitt Parkway
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Wakefield, MA 01880
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7 of 9 jensenhughes.com

CABINET DIMENSIONS, WEIGHTS, AND SCREW FORCES (CON'T)

ITEM	DIMENSIONS			CENTER OF GRAVITY			WEIGHT				MAX GROUP FORCE	
	LENGTH [in]	DEPTH [in]	HEIGHT [in]	HCG [in]	LCG [in]	DCG [in]	CABINET WT [lb]	MEDIA WT INSIDE [lb]	MEDIA WT TOP [lb]	TOTAL WT [lb]	Tu [lb]	Vu [lb]
MM-212478	21.00	23.50	78.00	45.18	10.50	9.00	148	735	112	996	436	209
MM-242478	24.00	23.50	78.00	45.25	12.00	9.00	150	840	128	1119	472	235
MM-272478	27.00	23.50	78.00	45.23	13.50	9.00	175	945	145	1265	519	266
MM-302478	30.00	23.50	78.00	45.27	15.00	9.00	180	1050	161	1391	559	292
MM-332478	33.00	23.50	78.00	45.31	16.50	9.00	185	1155	177	1517	600	319
MM-362478	36.00	23.50	78.00	45.34	18.00	9.00	190	1260	193	1643	641	345
MM-122484	12.00	23.50	84.00	47.88	6.00	9.00	145	452	64	662	587	139
MM-152484	15.00	23.50	84.00	48.05	7.50	9.00	148	565	80	794	487	167
MM-182484	18.00	23.50	84.00	48.17	9.00	9.00	150	679	96	925	441	194
MM-212484	21.00	23.50	84.00	48.25	10.50	9.00	153	792	112	1057	462	222
MM-242484	24.00	23.50	84.00	48.32	12.00	9.00	155	905	128	1188	500	250
MM-272484	27.00	23.50	84.00	48.31	13.50	9.00	180	1018	145	1342	549	282
MM-302484	30.00	23.50	84.00	48.35	15.00	9.00	185	1131	161	1477	591	310
MM-332484	33.00	23.50	84.00	48.39	16.50	9.00	190	1244	177	1611	635	338
MM-362484	36.00	23.50	84.00	48.42	18.00	9.00	195	1357	193	1745	678	366
MM-121465	12.00	13.19	65.00	37.66	6.00	3.85	115	196	36	348	192	73
MM-151465	15.00	13.19	65.00	37.66	7.50	3.85	118	246	45	409	191	86
MM-181465	18.00	13.19	65.00	38.02	9.00	3.85	120	295	54	469	209	98
MM-211465	21.00	13.19	65.00	38.13	10.50	3.85	123	344	63	530	230	111
MM-241465	24.00	13.19	65.00	38.23	12.00	3.85	125	393	72	590	251	124
MM-271465	27.00	13.19	65.00	38.29	13.50	3.85	130	442	81	653	274	137
MM-301465	30.00	13.19	65.00	38.34	15.00	3.85	135	491	90	716	297	150
MM-331465	33.00	13.19	65.00	38.36	16.50	3.85	140	540	99	779	321	164
MM-361465	36.00	13.19	65.00	38.42	18.00	3.85	145	589	108	843	344	177
MM-121471	12.00	13.19	71.00	40.76	6.00	3.85	120	215	36	371	205	78
MM-151471	15.00	13.19	71.00	40.96	7.50	3.85	123	268	45	436	202	92
MM-181471	18.00	13.19	71.00	41.12	9.00	3.85	125	322	54	501	221	105
MM-211471	21.00	13.19	71.00	41.23	10.50	3.85	128	376	63	567	243	119
MM-241471	24.00	13.19	71.00	41.33	12.00	3.85	130	429	72	631	265	133
MM-271471	27.00	13.19	71.00	41.39	13.50	3.85	135	483	81	699	290	147
MM-301471	30.00	13.19	71.00	41.44	15.00	3.85	140	537	90	767	314	161
MM-331471	33.00	13.19	71.00	41.48	16.50	3.85	145	590	99	834	339	175
MM-361471	36.00	13.19	71.00	41.52	18.00	3.85	150	644	108	902	364	189
MM-121477	12.00	13.19	77.00	43.84	6.00	3.85	125	233	36	394	218	83
MM-151477	15.00	13.19	77.00	44.05	7.50	3.85	128	291	45	464	213	97
MM-181477	18.00	13.19	77.00	44.20	9.00	3.85	130	349	54	533	233	112
MM-211477	21.00	13.19	77.00	44.32	10.50	3.85	133	407	63	603	256	127
MM-241477	24.00	13.19	77.00	44.41	12.00	3.85	135	465	72	673	280	141
MM-271477	27.00	13.19	77.00	44.48	13.50	3.85	140	524	81	745	305	156
MM-301477	30.00	13.19	77.00	44.53	15.00	3.85	145	582	90	817	331	172
MM-331477	33.00	13.19	77.00	44.57	16.50	3.85	150	640	99	889	357	187
MM-361477	36.00	13.19	77.00	44.61	18.00	3.85	155	698	108	961	384	202
MM-121483	12.00	13.19	83.00	46.92	6.00	3.85	130	251	36	417	231	88
MM-151483	15.00	13.19	83.00	47.12	7.50	3.85	133	314	45	492	224	103
MM-181483	18.00	13.19	83.00	47.28	9.00	3.85	135	376	54	565	245	119
MM-211483	21.00	13.19	83.00	47.39	10.50	3.85	138	439	63	640	269	134
MM-241483	24.00	13.19	83.00	47.49	12.00	3.85	140	502	72	714	294	150
MM-271483	27.00	13.19	83.00	47.55	13.50	3.85	145	564	81	791	321	166
MM-301483	30.00	13.19	83.00	47.60	15.00	3.85	150	627	90	867	348	182
MM-331483	33.00	13.19	83.00	47.65	16.50	3.85	155	690	99	944	376	198
MM-361483	36.00	13.19	83.00	47.69	18.00	3.85	160	753	108	1021	404	214
MM-121489	12.00	13.19	89.00	49.98	6.00	3.85	135	269	36	440	244	92
MM-151489	15.00	13.19	89.00	50.19	7.50	3.85	138	336	45	519	235	109
MM-181489	18.00	13.19	89.00	50.35	9.00	3.85	140	404	54	598	257	125
MM-211489	21.00	13.19	89.00	50.46	10.50	3.85	143	471	63	677	283	142
MM-241489	24.00	13.19	89.00	50.56	12.00	3.85	145	538	72	755	309	159
MM-271489	27.00	13.19	89.00	50.62	13.50	3.85	150	605	81	836	337	176
MM-301489	30.00	13.19	89.00	50.67	15.00	3.85	155	673	90	918	366	193
MM-331489	33.00	13.19	89.00	50.72	16.50	3.85	160	740	99	999	395	210
MM-361489	36.00	13.19	89.00	50.76	18.00	3.85	165	807	108	1080	424	227



Kevin Dommer
03/30/2021

TITLE OFS CAROLINA MILE MARKER STORAGE CABINETS	MANUFACTURER OFS	PROJECT NO 1CMH00005.000	EQUIPMENT OFS CAROLINA MILE MARKER STORAGE CABINETS WITH PRODUCT NUMBERS ENDING IN SC, SCS, SCD, SCD5, SCD6B, SCD6BS, SCD2, SCD2S, SCDZ, SCDZS, SCD4, OR SCD4S.				
	PRODUCT LINE CAROLINA MILE MARKER	DATE 03/30/2021					
	EQUIPMENT DESCRIPTION FLOOR SUPPORTED STORAGE CABINET	<table border="1"> <tr> <td>DESIGN CMH</td> <td>DRAWN BY CMH</td> <td>CHECKED BY KPD</td> </tr> <tr> <td colspan="3">SHEET</td> </tr> </table>		DESIGN CMH	DRAWN BY CMH	CHECKED BY KPD	SHEET
DESIGN CMH	DRAWN BY CMH	CHECKED BY KPD					
SHEET							

OPM NUMBER OPM-0605 3/30/2021	8 OF 7 OPM-0605: Reviewed for Code Compliance by William Staehlin
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<p>JENSEN HUGHES</p> 100 Quannapowitt Parkway Suite 401 Wakefield, MA 01880 O: +1 857-259-4968 8 of 9 jensenhughes.com

CABINET DIMENSIONS, WEIGHTS, AND SCREW FORCES (CON'T)

ITEM	DIMENSIONS			CENTER OF GRAVITY			WEIGHT				MAX GROUP FORCE	
	LENGTH [in]	DEPTH [in]	HEIGHT [in]	HCG [in]	LCG [in]	DCG [in]	CABINET WT [lb]	MEDIA WT INSIDE [lb]	MEDIA WT TOP [lb]	TOTAL WT [lb]	Tu [lb]	Vu [lb]
MM-121890	12.00	17.50	90.50	51.01	6.00	6.00	140	363	48	551	383	116
MM-151890	15.00	17.50	90.50	51.19	7.50	6.00	143	454	60	656	322	138
MM-181890	18.00	17.50	90.50	51.33	9.00	6.00	145	544	72	761	337	160
MM-211890	21.00	17.50	90.50	51.43	10.50	6.00	148	635	84	867	369	182
MM-241890	24.00	17.50	90.50	51.51	12.00	6.00	150	726	96	972	402	204
MM-271890	27.00	17.50	90.50	51.52	13.50	6.00	165	817	108	1089	441	229
MM-301890	30.00	17.50	90.50	51.57	15.00	6.00	170	907	120	1197	477	251
MM-331890	33.00	17.50	90.50	51.61	16.50	6.00	175	998	132	1305	514	274
MM-361890	36.00	17.50	90.50	51.64	18.00	6.00	180	1089	144	1412	551	297
MM-122468	12.00	23.50	68.50	39.96	6.00	9.00	125	369	64	558	491	117
MM-152468	15.00	23.50	68.50	40.12	7.50	9.00	128	461	80	689	405	141
MM-182468	18.00	23.50	68.50	40.24	9.00	9.00	130	553	96	780	365	164
MM-212468	21.00	23.50	68.50	40.32	10.50	9.00	133	646	112	891	393	187
MM-242468	24.00	23.50	68.50	40.39	12.00	9.00	135	738	128	1001	425	210
MM-272468	27.00	23.50	68.50	40.36	13.50	9.00	160	830	145	1135	468	238
MM-302468	30.00	23.50	68.50	40.40	15.00	9.00	165	922	161	1248	505	262
MM-332468	33.00	23.50	68.50	40.44	16.50	9.00	170	1014	177	1361	542	286
MM-362468	36.00	23.50	68.50	40.46	18.00	9.00	175	1107	193	1474	579	310
MM-122474	12.00	23.50	74.50	43.05	6.00	9.00	130	401	64	595	525	125
MM-152474	15.00	23.50	74.50	43.21	7.50	9.00	133	502	80	715	435	150
MM-182474	18.00	23.50	74.50	43.33	9.00	9.00	135	602	96	833	393	175
MM-212474	21.00	23.50	74.50	43.41	10.50	9.00	138	702	112	953	418	200
MM-242474	24.00	23.50	74.50	43.48	12.00	9.00	140	802	128	1071	453	225
MM-272474	27.00	23.50	74.50	43.45	13.50	9.00	165	903	145	1212	499	255
MM-302474	30.00	23.50	74.50	43.49	15.00	9.00	170	1003	161	1334	537	280
MM-332474	33.00	23.50	74.50	43.53	16.50	9.00	175	1103	177	1455	577	306
MM-362474	36.00	23.50	74.50	43.56	18.00	9.00	180	1204	193	1576	617	331
MM-122480	12.00	23.50	80.50	46.13	6.00	9.00	135	434	64	633	580	133
MM-152480	15.00	23.50	80.50	46.29	7.50	9.00	138	542	80	760	465	160
MM-182480	18.00	23.50	80.50	46.41	9.00	9.00	140	650	96	887	421	186
MM-212480	21.00	23.50	80.50	46.49	10.50	9.00	143	759	112	1014	444	213
MM-242480	24.00	23.50	80.50	46.56	12.00	9.00	145	867	128	1141	481	240
MM-272480	27.00	23.50	80.50	46.54	13.50	9.00	170	975	145	1290	529	271
MM-302480	30.00	23.50	80.50	46.58	15.00	9.00	175	1084	161	1419	570	298
MM-332480	33.00	23.50	80.50	46.61	16.50	9.00	180	1192	177	1549	612	325
MM-362480	36.00	23.50	80.50	46.64	18.00	9.00	185	1301	193	1678	654	352
MM-122486	12.00	23.50	86.50	49.20	6.00	9.00	140	466	64	670	595	141
MM-152486	15.00	23.50	86.50	49.36	7.50	9.00	143	582	80	806	495	169
MM-182486	18.00	23.50	86.50	49.48	9.00	9.00	145	699	96	940	449	197
MM-212486	21.00	23.50	86.50	49.56	10.50	9.00	148	815	112	1076	470	226
MM-242486	24.00	23.50	86.50	49.63	12.00	9.00	150	932	128	1210	509	254
MM-272486	27.00	23.50	86.50	49.61	13.50	9.00	175	1048	145	1368	559	287
MM-302486	30.00	23.50	86.50	49.65	15.00	9.00	180	1165	161	1505	602	316
MM-332486	33.00	23.50	86.50	49.69	16.50	9.00	185	1281	177	1643	647	345
MM-362486	36.00	23.50	86.50	49.72	18.00	9.00	190	1398	193	1780	691	374
MM-122492	12.00	23.50	92.50	52.27	6.00	9.00	145	498	64	707	630	149
MM-152492	15.00	23.50	92.50	52.43	7.50	9.00	148	623	80	851	524	179
MM-182492	18.00	23.50	92.50	52.54	9.00	9.00	150	747	96	994	476	209
MM-212492	21.00	23.50	92.50	52.62	10.50	9.00	153	872	112	1137	495	239
MM-242492	24.00	23.50	92.50	52.69	12.00	9.00	155	996	128	1280	537	269
MM-272492	27.00	23.50	92.50	52.67	13.50	9.00	180	1121	145	1445	589	304
MM-302492	30.00	23.50	92.50	52.72	15.00	9.00	185	1245	161	1591	635	334
MM-332492	33.00	23.50	92.50	52.75	16.50	9.00	190	1370	177	1737	682	365
MM-362492	36.00	23.50	92.50	52.78	18.00	9.00	195	1494	193	1882	729	395



Kevin Dommer
03/30/2021

TITLE OFS CAROLINA MILE MARKER STORAGE CABINETS OPM NUMBER OPM-0605 3/30/2021	MANUFACTURER OFS	PROJECT NO 1CMH00005.000	EQUIPMENT OFS CAROLINA MILE MARKER STORAGE CABINETS WITH PRODUCT NUMBERS ENDING IN SC, SCS, SCD, SCD5, SCDGB, SCDGBS, SCD2, SCD2S, SCDZ, SCDZS, SCD4, OR SCD4S.	 100 Quannapowitt Parkway Suite 401 Wakefield, MA 01880 O: +1 857-259-4968 9 of 9 jensenhughes.com
	PRODUCT LINE CAROLINA MILE MARKER	DATE 03/30/2021		
	EQUIPMENT DESCRIPTION FLOOR SUPPORTED STORAGE CABINET	DESIGN CMH		