



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI PREAPPROVAL OF
MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0693

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: New Renewal/Update

Manufacturer Information

Manufacturer: Midmark

Manufacturer's Technical Representative: Scott Strait

Mailing Address: 60 Vista Drive, Versailles, OH 45380

Telephone: (800) 643-6275

Email: sstrait@midmark.com

Product Information

Product Name: Midmark Wall-mounted Cabinet

OPM-0693

Product Type: Cabinet

Product Model Number: Units 027-10140-00 through -05, 027-10141-00 through -11, 027-10142-00 through -11

General Description: Wall-mounted cabinet

Applicant Information

Applicant Company Name: Midmark

Contact Person: Scott Strait

Mailing Address: 60 Vista Drive, Versailles, OH 45380

Telephone: (800) 643-6275

Email: sstrait@midmark.com

Title: Lead Engineer

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations

Company Name: ZFA STRUCTURAL ENGINEERS
Name: Ryan Bogart California License Number: S6104
Mailing Address: 601 Montgomery Street Suite 1450, San Francisco, CA 94111
Telephone: (415) 269-0660 Email: ryanb@zfa.com

HCAI 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, 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.

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

HCAI Approval

Date: 9/7/2023
Name: William Staehlin Title: Senior Structural Engineer
Condition of Approval (if applicable):

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MIDMARK CABINET

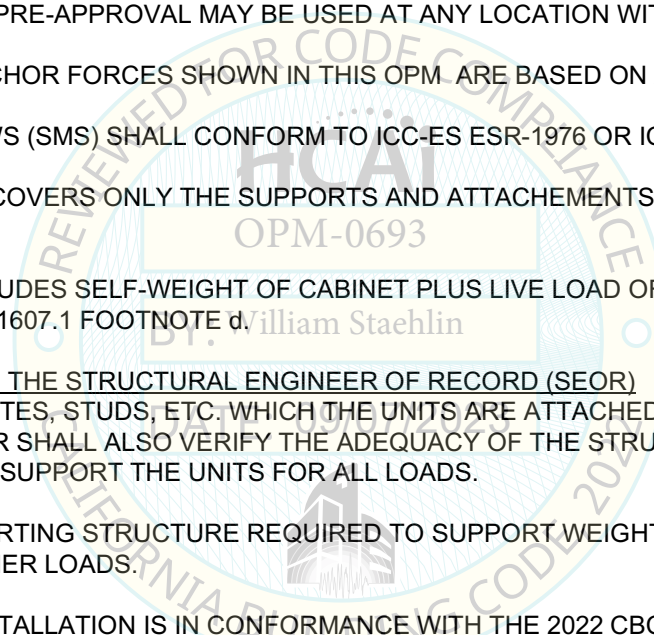
CABINET UNITS 027-10140-00 TO 027-10140-05, 027-10141-00 TO 027-10141-11, AND 027-10142-00 TO 027-10142-11



EQUIPMENT MANUFACTURER: MIDMARK CORPORATION
EQUIPMENT TYPE: WALL MOUNTED TALL CABINETS

GENERAL NOTES

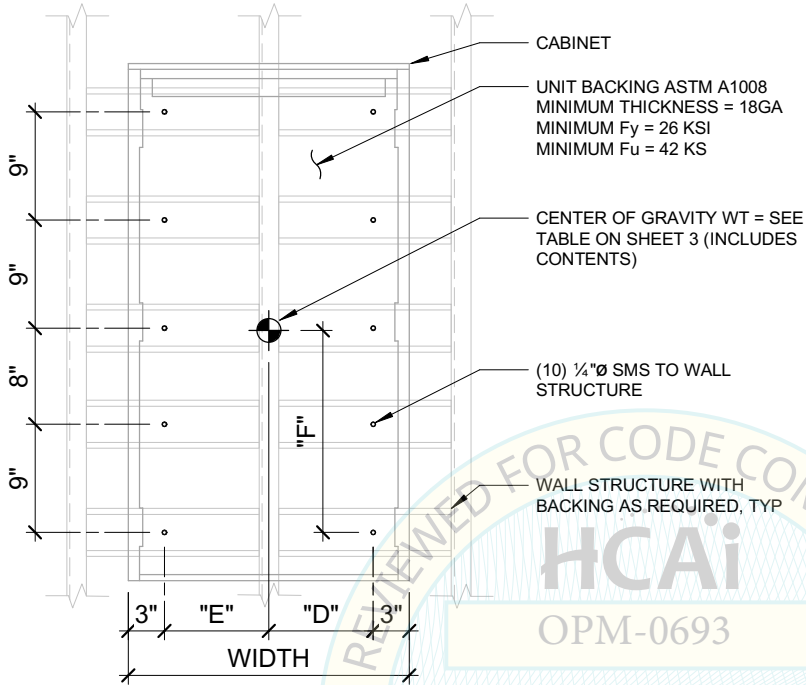
1. THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2022. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2022.
2. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2, 13.3-3, WHERE $S_{DS} = 2.50$, $a_p = 1.0$, $I_p = 1.5$ & $R_p = 2.5$, $z/h \leq 1.0$. A FACTOR OF 0.7 IS APPLIED TO CALCULATE ASD LOADS.
HORIZONTAL FORCE (E_h) = $1.8W_p$
VERTICAL FORCE (E_v) = $0.5W_p$
3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION WITH AN S_{DS} OF 2.5g OR LESS.
4. ALL SEISMIC AND ANCHOR FORCES SHOWN IN THIS OPM ARE BASED ON ALLOWABLE STRESS DESIGN.
5. SHEET METAL SCREWS (SMS) SHALL CONFORM TO ICC-ES ESR-1976 OR ICC-ES ESR-2196.
6. THE PRE-APPROVAL COVERS ONLY THE SUPPORTS AND ATTACHEMENTS OF THE UNITS TO THE STRUCTURE.
7. DESIGN WEIGHT INCLUDES SELF-WEIGHT OF CABINET PLUS LIVE LOAD OF 33 POUNDS PER CUBIC FEET PER 2022 CBC TABLE 1607.1 FOOTNOTE d.
1. **RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD (SEOR)**
DESIGN BACKING PLATES, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS. THE SEOR SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS) WHICH SUPPORT THE UNITS FOR ALL LOADS.
2. PROVIDE ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
3. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2022 CBC AND WITH THE DETAILS SHOWN IN THIS DOCUMENT. VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.
4. VERIFY THAT THE COMBINATION OF S_{DS} & z/h RESULT IN SEISMIC FORCES (E_h , E_v) THAT ARE NOT GREATER THAN THE VALUES IN THE GENERAL NOTES.
5. VERIFY THAT THE ATTACHMENTS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY END OR EDGE OF METAL STUD.



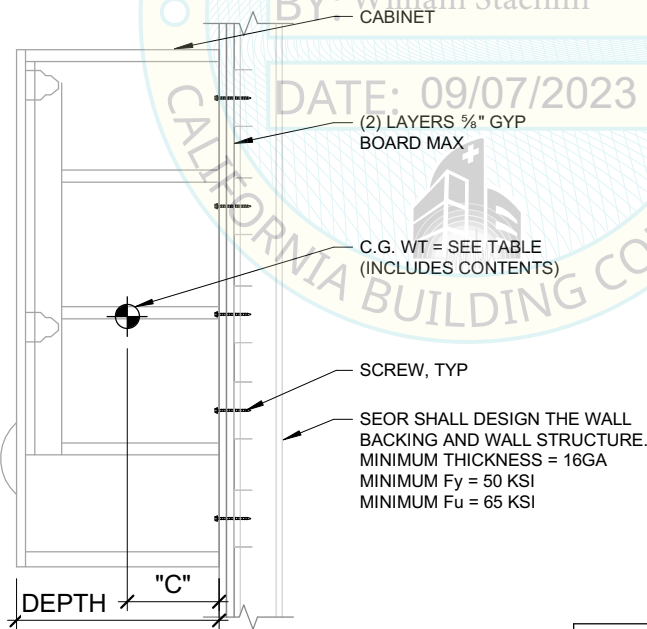
SHEET NAME: GENERAL NOTES	OPM-0693	STAMP:
	DATE: 03/28/23	
	JOB NO.: 23042	
SHEET NO.: 1/7		
ZFA STRUCTURAL ENGINEERS 601 montgomery street suite 1450 san francisco ca 94111 415.243.4091 zfa.com		

MIDMARK CABINET

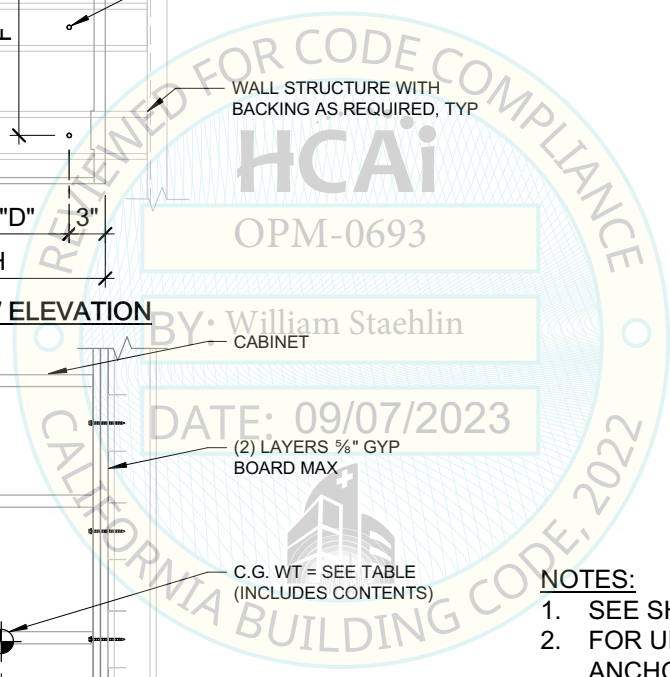
CABINET UNITS 027-10140-00 TO 027-10140-05, 027-10141-00 TO 027-10141-11, AND 027-10142-00 TO 027-10142-11



BACK VIEW ELEVATION



SIDE VIEW ELEVATION



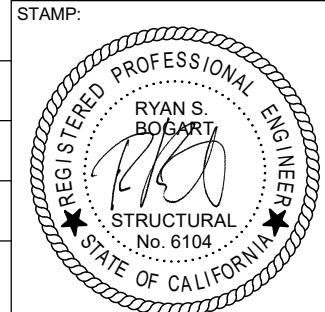
NOTES:

1. SEE SHEET 1 FOR GENERAL NOTES.
2. FOR UNIT GEOMETRY, WEIGHT, AND ANCHORAGE/ATTACHMENT FORCES, SEE SHEET 3. CENTER OF GRAVITY (CG) WEIGHT IS A MAXIMUM.
3. MINIMUM SCREW SPACING = $\frac{3}{4}$ "; MINIMUM EDGE DISTANCE FOR SCREWS = $\frac{3}{8}$ "

SHEET NAME:
UNIT 027-10140-XX DETAILS

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OPM-0693
DATE: 03/28/23
JOB NO.: 23042
SHEET NO.: 2/7

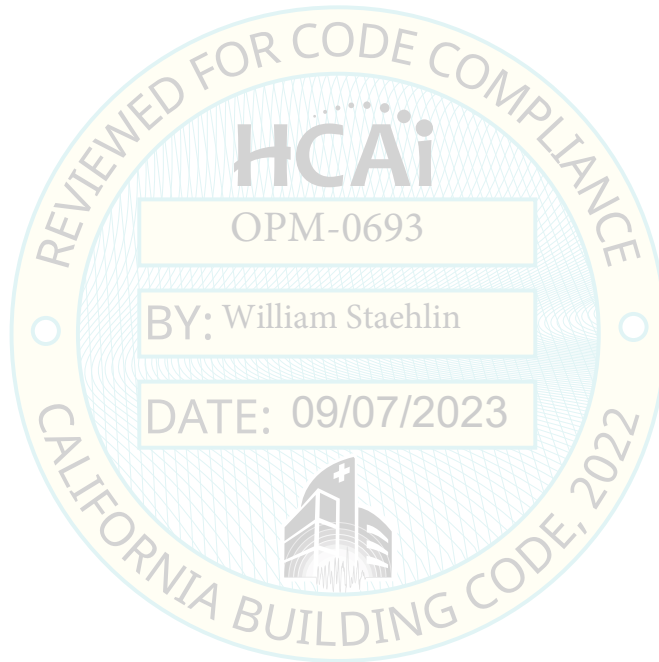


MIDMARK CABINET

CABINET UNITS 027-10140-00 TO 027-10140-05, 027-10141-00
TO 027-10141-11, AND 027-10142-00 TO 027-10142-11



PART NUMBER	WIDTH (in)	DEPTH (in)	WEIGHT (LBS)	"A" (in)	"B" (in)	"C" (in)	"D" (in)	"E" (in)	"F" (in)	MAXIMUM TENSION (lbs/screw)	MAXIMUM SHEAR (lbs/screw)
027-10140-00	12	17.83	203	5.85	21.30	8.27	2.85	3.15	17.30	105	38
027-10140-01	15	17.83	244	7.34	21.28	8.18	4.34	4.67	17.28	97	46
027-10140-02	18	17.83	286	8.83	21.27	8.11	5.83	6.17	17.27	96	54
027-10140-03	21	17.83	327	10.32	21.26	8.06	7.32	7.68	17.26	98	61
027-10140-04	24	17.83	375	12.00	21.25	8.17	9.00	9.00	17.25	109	70
027-10140-05	30	17.83	457	15.00	21.24	8.09	12.00	12.00	17.24	128	85



SHEET NAME:
UNIT 027-10140-XX SCHEDULE

OPM-0693
DATE: 03/28/23
JOB NO.: 23042
SHEET NO.: 3/7

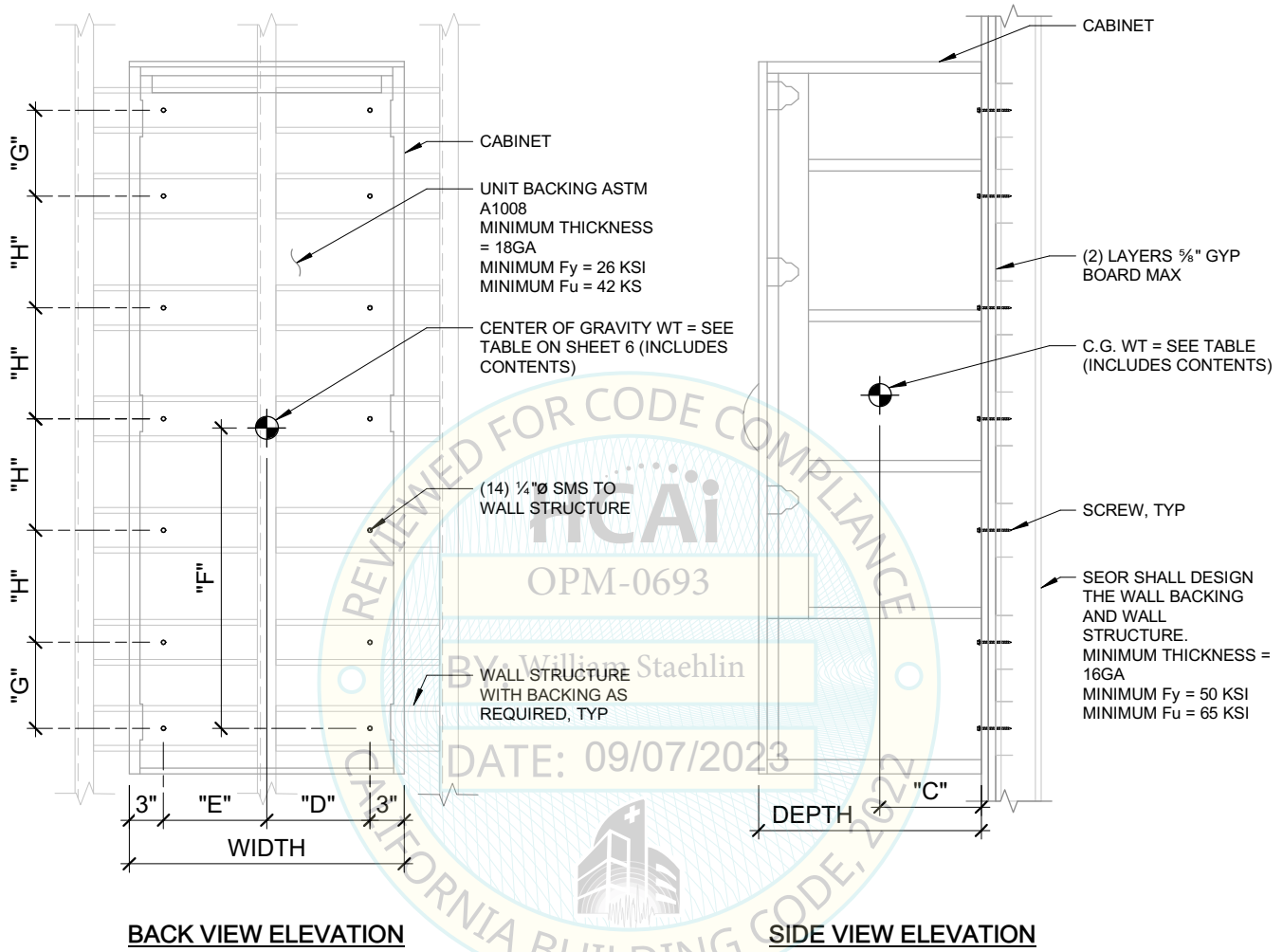
STAMP:



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MIDMARK CABINET

CABINET UNITS 027-10140-00 TO 027-10140-05, 027-10141-00 TO 027-10141-11, AND 027-10142-00 TO 027-10142-11



NOTES:

1. SEE SHEET 1 FOR GENERAL NOTES.
2. FOR UNIT GEOMETRY, WEIGHT, AND ANCHORAGE/ATTACHMENT FORCES, SEE SHEET 5. CENTER OF GRAVITY (CG) WEIGHT IS A MAXIMUM.
3. MINIMUM SCREW SPACING = 3/4"; MINIMUM EDGE DISTANCE FOR SCREWS = 3/8"

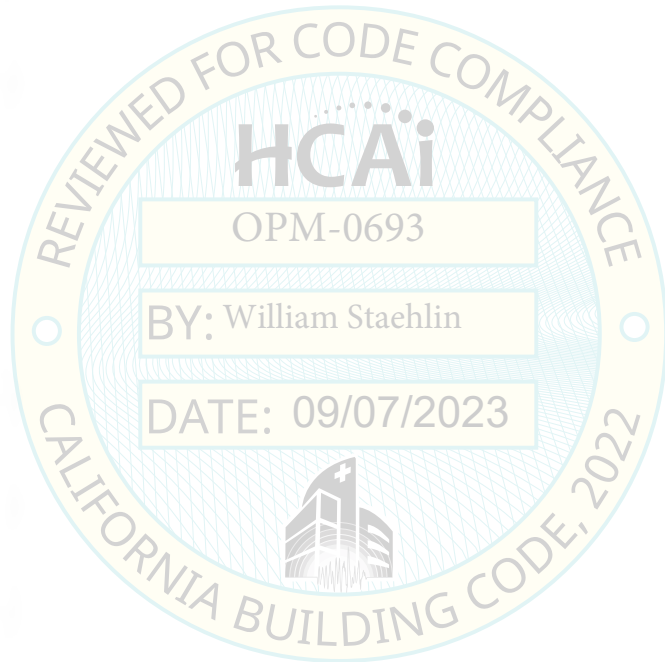
SHEET NAME: UNIT 027-10141-XX DETAILS	OPM-0693	
	DATE: 03/28/23	
JOB NO.: 23042		
SHEET NO.: 4/7		
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MIDMARK CABINET

CABINET UNITS 027-10140-00 TO 027-10140-05, 027-10141-00 TO 027-10141-11, AND 027-10142-00 TO 027-10142-11



PART NUMBER	WIDTH (in)	HEIGHT (in)	WEIGHT (LBS)	"A" (in)	"B" (in)	"C" (in)	"D" (in)	"E" (in)	"F" (in)	"G" (in)	"H" (in)	MAXIMUM TENSION (lbs/bolt)	MAXIMUM SHEAR (lbs/bolt)
027-10141-00	12	62.20	209	5.86	30.31	8.22	2.86	3.14	26.31	7.50	9.75	96	39
027-10141-01	15	62.28	348	7.34	30.27	8.14	4.34	4.66	26.27	7.50	9.75	88	47
027-10141-02	18	62.28	408	8.84	30.24	8.07	5.84	6.16	26.24	7.50	9.75	86	56
027-10141-03	21	62.28	467	10.33	30.22	8.02	7.33	7.67	26.22	7.50	9.75	87	64
027-10141-04	24	62.28	534	12.00	30.21	8.12	9.00	9.00	26.21	7.50	9.75	97	72
027-10141-05	30	62.28	652	15.00	30.18	8.04	12.00	12.00	26.18	7.50	9.75	114	88
027-10141-06	12	67.99	314	5.87	31.52	8.20	2.87	3.13	27.32	8.00	11.00	105	45
027-10141-07	15	67.99	379	7.35	31.20	8.12	4.35	4.64	27.20	8.00	11.00	94	55
027-10141-08	18	67.99	444	8.85	33.05	8.05	5.85	6.15	29.05	8.00	11.00	91	69
027-10141-09	21	67.99	508	10.34	33.02	8.01	7.34	7.66	29.02	8.00	11.00	101	79
027-10141-10	24	67.99	581	12.00	33.03	8.09	9.00	9.00	29.03	8.00	11.00	101	79
027-10141-11	30	67.99	709	15.00	33.00	8.02	12.00	12.00	29.00	8.00	11.00	119	96



SHEET NAME:
UNIT 027-10141-XX SCHEDULE

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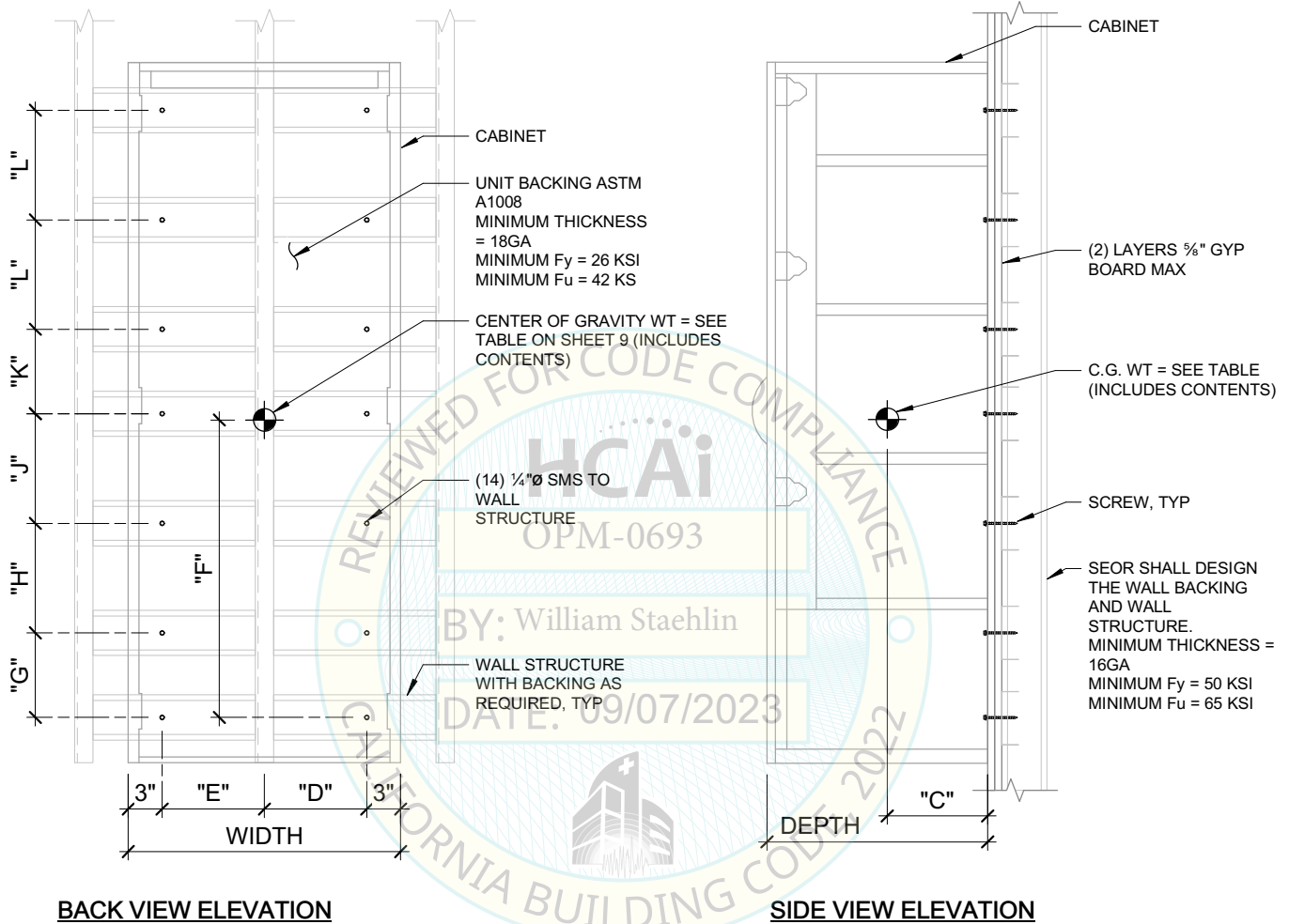
OPM-0693
DATE: 03/28/23
JOB NO.: 23042
SHEET NO.: 5/7

STAMP:



MIDMARK CABINET

CABINET UNITS 027-10140-00 TO 027-10140-05, 027-10141-00 TO 027-10141-11, AND 027-10142-00 TO 027-10142-11



NOTES:

1. SEE SHEET 1 FOR GENERAL NOTES.
2. FOR UNIT GEOMETRY, WEIGHT, AND ANCHORAGE/ATTACHMENT FORCES, SEE SHEET 7. CENTER OF GRAVITY (CG) WEIGHT IS A MAXIMUM.
3. MINIMUM SCREW SPACING = $\frac{3}{4}$ "; MINIMUM EDGE DISTANCE FOR SCREWS = $\frac{3}{8}$ "

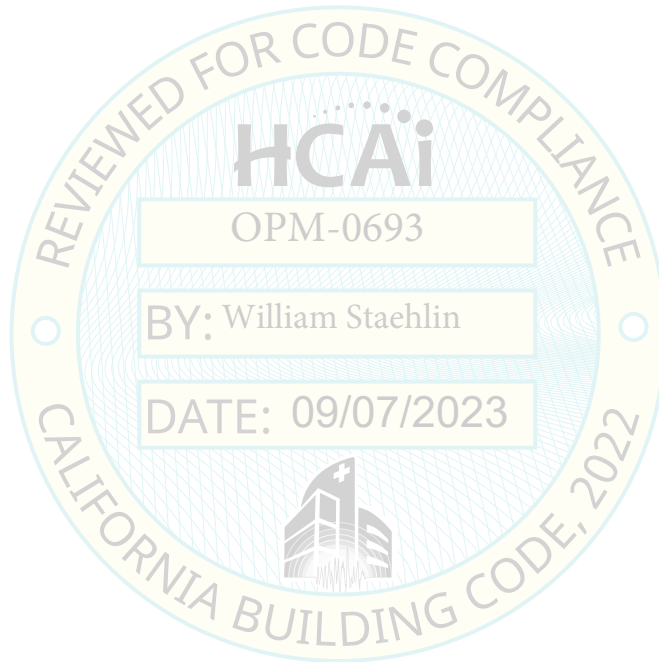
SHEET NAME: UNIT 027-10142-XX DETAILS	OPM-0693	
	DATE: 03/28/23	
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SHEET NO.: 6/7		
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MIDMARK CABINET

CABINET UNITS 027-10140-00 TO 027-10140-05, 027-10141-00 TO 027-10141-11, AND 027-10142-00 TO 027-10142-11



PART NUMBER	WIDTH (in)	HEIGHT (in)	WEIGHT (LBS)	"A" (in)	"B" (in)	"C" (in)	"D" (in)	"E" (in)	"F" (in)	"G" (in)	"H" (in)	"J" (in)	"K" (in)	"L" (in)	MAXIMUM TENSION (lbs/boft)	MAXIMUM SHEAR (lbs/boft)
027-10142-00	12	62.28	268	5.92	30.04	8.24	2.82	9.08	26.04	7.50	9.75	9.75	7.50	9.75	63	43
027-10142-01	15	62.28	347	7.41	30.08	8.18	4.41	4.59	26.08	7.50	9.75	9.75	7.50	9.75	90	46
027-10142-02	18	62.28	408	8.91	30.10	8.13	5.91	6.09	26.10	7.50	9.75	9.75	7.50	9.75	98	55
027-10142-03	21	62.28	467	10.41	30.11	8.09	7.41	7.60	26.11	7.50	9.75	9.75	7.50	9.75	89	62
027-10142-04	24	62.28	532	12.00	29.95	8.14	9.00	9.00	25.95	7.50	9.75	9.75	7.50	9.75	98	71
027-10142-05	30	62.28	651	15.00	29.99	8.08	12.00	12.00	25.99	7.50	9.75	9.75	7.50	9.75	115	87
027-10142-06	12	67.99	312	5.83	32.94	8.21	2.83	3.07	28.94	9.00	9.00	10.00	11.00	11.00	104	42
027-10142-07	15	67.99	377	7.42	32.98	8.15	4.42	4.58	28.98	9.00	9.00	10.00	11.00	11.00	94	50
027-10142-08	18	67.99	443	8.92	32.99	8.10	5.92	6.08	28.99	9.00	9.00	10.00	11.00	11.00	92	59
027-10142-09	21	67.99	508	10.41	33.00	8.06	7.41	7.59	29.00	9.00	9.00	10.00	11.00	11.00	93	68
027-10142-10	24	67.99	577	12.00	32.85	8.10	9.00	9.00	28.85	9.00	9.00	10.00	11.00	11.00	102	77
027-10142-11	30	67.99	707	15.00	32.89	8.05	12.00	12.00	28.89	9.00	9.00	10.00	11.00	11.00	120	94



SHEET NAME:
UNIT 027-10142-XX SCHEDULE

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SHEET NO.: 7/7

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