



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY
APPLICATION #: OPM-0476-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: [X] New [] Renewal [] Update to Pre-CBC 2013 OPA Number:

Manufacturer Information

Manufacturer: MIDMARK CORPORATION
Manufacturer's Technical Representative: Renee Browder
Mailing Address: 60 Vista Drive, Versailles, OH 45380
Telephone: (937) 526 - 8705 Email: RBrowder@midmark.com

Product Information

Product Name: Midmark Corporation Dental Phoenix Side Worksurface
Product Type: Dental Cabinet
Product Model Number: 027-2094-00, 027-2094-01
General Description: Floor-supported cabinet

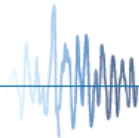
Applicant Information

Applicant Company Name: ZFA Structural Engineers
Contact Person: Ryan Bogart
Mailing Address: 601 Montgomery Street, Suite 1450, San Francisco, CA, 94111
Telephone: 415-243-4091 x202 Email: ryanb@zfa.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant: [Handwritten Signature] Date: 3/12/2018
Title: Senior Associate Company Name: ZFA Structural Engineers

"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: ZFA Structural Engineers
Name: Mark Moore California License Number: S4443
Mailing Address: 601 Montgomery Street, Suite 1450, San Francisco, CA, 94111
Telephone: 415-243-4091 x201 Email: markm@zfa.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): _____

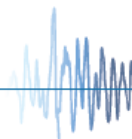
List of Attachments Supporting the Manufacturer's Certification

- 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: *Sonia Eliseo* Date: 3/20/2019
Print Name: Sonia Eliseo
Title: SE
Condition of Approval (if applicable): _____

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EQUIPMENT MANUFACTURER:
MIDMARK CORPORATION

OPM-0476-13

ZFA STRUCTURAL ENGINEERS
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DATE: 03/07/2018
JOB NO.: 18005

SHEET
1
OF 3

EQUIPMENT TYPE:
UNIT# 027-2094-00 THRU 027-2094-01 (PHOENIX SIDE WORKSURFACE)

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GENERAL NOTES

- THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2016. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2016.
- SEISMIC DESIGN FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2, 13.3-3, WHERE:
 $S_{DS} = 2.20$, $a_p = 1.0$, $I_p = 1.5$ & $R_p = 2.5$, $z/h \leq 1.0$.
 A FACTOR OF 0.7 IS APPLIED TO CALCULATE ASD LOADS.
 HORIZONTAL FORCE (E_h) = 1.584 W_p (UNFACTORED)
 VERTICAL FORCE (E_v) = 0.440 W_p (UNFACTORED)
- THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION WHERE THE S_{DS} DOES NOT EXCEED 2.20.
- ALL SEISMIC AND ANCHOR FORCES SHOWN ON THE DRAWINGS ARE UNFACTORED LOADS THAT SHALL BE USED FOR ALLOWABLE STRESS DESIGN (ASD).
- SHEET METAL SCREWS (SMS) SHALL CONFORM TO ICC-ES ESR-1976 OR ICC-ES ESR-2196. MINIMUM EDGE DISTANCE, SPACING, AND EMBEDMENT THROUGH STUDS PER ICC REPORT.
- THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO STRUCTURE. SEE SHEET 2 FOR LIGHT GAGE STEEL MINIMUM SPECIFICATIONS.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD (SEOR)

- DESIGN BACKING PLATES, STUDS, ETC. TO WHICH THE UNITS ARE ATTACHED, AS NOTED ON THE DRAWINGS.
- THE SEOR SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES WHICH SUPPORT THE UNIT (SUCH AS WALLS AND FLOORS) FOR LOADS IMPOSED BY THE UNIT, AS WELL AS ALL OTHER LOADS.
- PROVIDE ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2016 CBC AND WITH THE DETAILS SHOWN IN THIS DOCUMENT. VERIFY THAT THE ACTUAL EQUIPMENT WEIGHT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS, AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN IN THE PRE-APPROVAL DOCUMENTS.
- 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 THESE GENERAL NOTES.
- VERIFY THAT THE ATTACHMENTS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY END OR EDGE OF METAL STUD.



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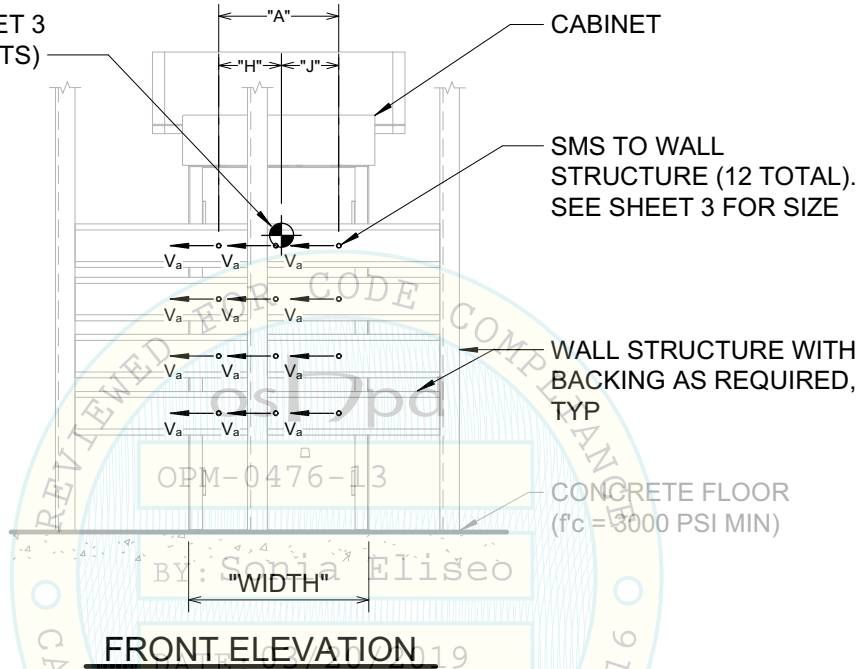
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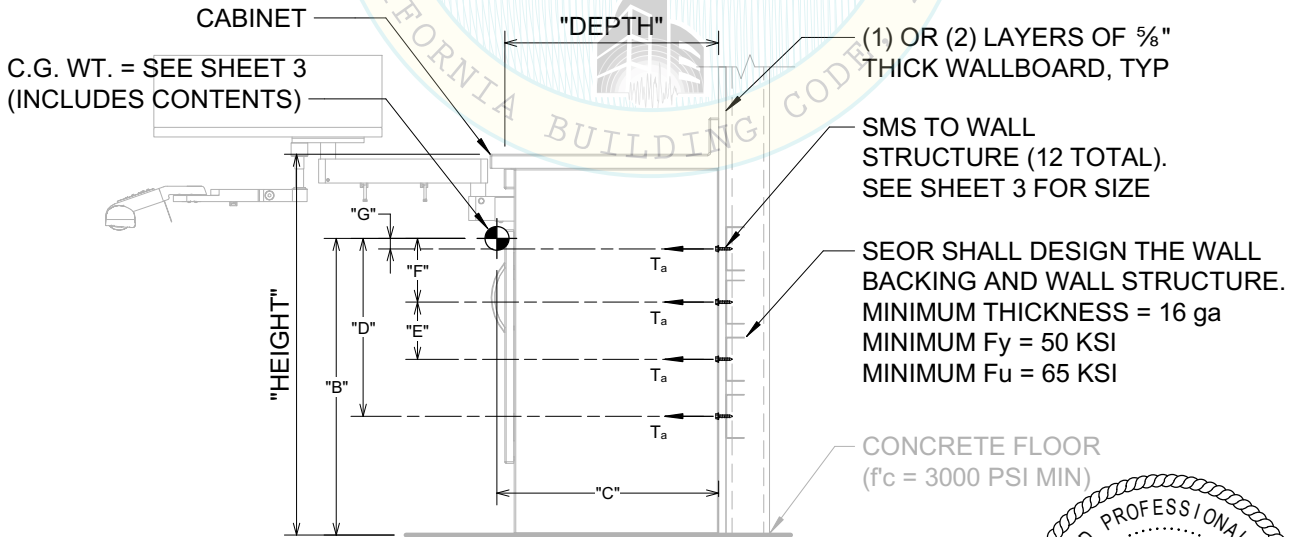
SHEET
2
OF 3

EQUIPMENT TYPE:
UNIT# 027-2094-00 THRU 027-2094-01 (PHOENIX SIDE WORKSURFACE)

C.G. WT. = SEE SHEET 3
(INCLUDES CONTENTS)



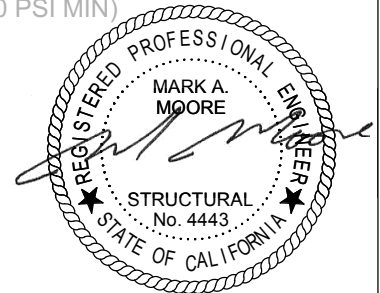
FRONT ELEVATION



SIDE ELEVATION

NOTES

1. SEE SHEET 1 FOR GENERAL NOTES.
2. FOR UNIT GEOMETRY, WEIGHT, AND ANCHOR/ATTACHMENT FORCES, SEE SHEET 3. CENTER OF GRAVITY (CG) WEIGHT IS A MAXIMUM.
3. A SIGN MUST BE POSTED ON ALL CABINETS TO INDICATE THE TOTAL WT LIMIT NOT TO BE EXCEED.
4. MINIMUM SCREW SPACING = 3/4"; MINIMUM EDGE DISTANCE FOR SCREWS = 3/8"



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SHEET
3
OF 3

EQUIPMENT TYPE:
UNIT# 027-2094-00 THRU 027-2094-01 (PHOENIX SIDE WORKSURFACE)

UNIT # 027-2094-XX

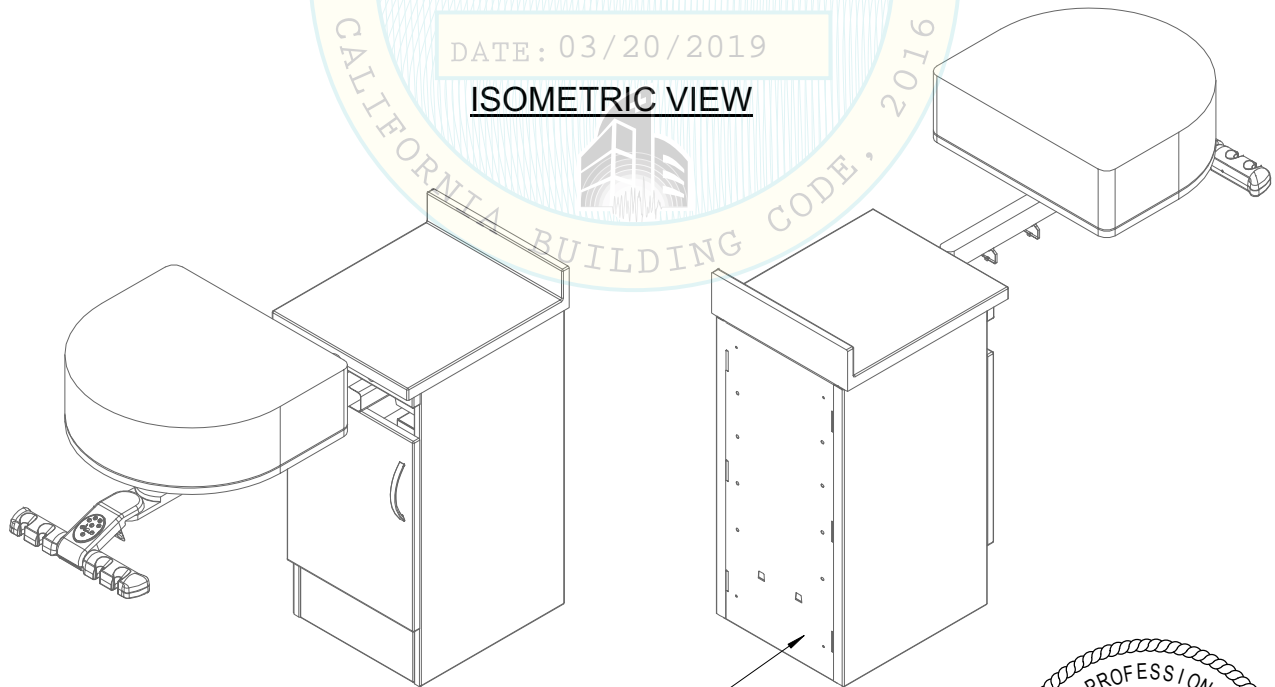
UNIT # suffix	D (in)	E (in)	F (in)	G (in)	H (in)	J (in)	UNIT "HEIGHT" (in) = 31.69					UNIT WT (lb)	MEDIA WT (lb)	TOTAL WT (lb)	MAX SCREW LOADING		SMS
							B (in)	UNIT "WIDTH" (in)	A (in)	UNIT "DEPTH" (in)	C (in)				T _a	V _a	
-00	14.7	4.8	5.2	0.7	5.3	4.7	24.6	15.0	10.0	17.8	18.4	175.5	100.1	275.6	166	25	#14
-01	14.7	4.8	5.2	0.8	6.7	6.3	24.6	18.0	13.0	17.8	18.0	187.5	100.1	287.6	134	27	#14

NOTE

1. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM SHOWN IN TABLE.
2. MEDIA WEIGHT IS CALCULATED ACCORDING TO BIFMA FUNCTIONAL LOADING GUIDELINES (ANSI/BIFMA X5.9-2012: TABLE 1-TEST LOADS AS USED FOR SECTION 4 UNIT STRENGTH TESTS), AND IS INCLUSIVE OF A 40LB MAX TRAY LOAD APPLIED TO THE EXTENDABLE ARM.
3. UNITS THAT HAVE AN EXTENDABLE ARM ARE CALCULATED WITH THE ARMS IN THEIR FULLY EXTENDED POSITIONS.
4. A SIGN MUST BE POSTED ON ALL CABINETS TO INDICATE THE TOTAL WT LIMIT NOT TO BE EXCEEDED.
5. SCREW LOADS ARE ASD LEVEL VALUES.

DATE: 03/20/2019

ISOMETRIC VIEW



REAR OF CABINET:
MIN THICKNESS = 18GA
MINIMUM F_y = 20 KSI
(ASTM A1008 CS TYPE B)

