

APPLICATION FOR OSHPD PREAPPROVAL

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

OFFICE USE ONLY

OF MANUFACTURER'S CERTIFICATION (OPM) APPLICATION #: OPM-0475-13											
OSHPD Preapproval of Manufacturer's Certification (OPM)											
/pe:											
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 Delivery											
Product Type: Dental Cabinet OPM-0475-13											
Product Model Number: 027-2093-00, 027-2093-0111a Eliseo											
General Description: Floor-supported cabinet DATE: 03/20/2019											
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: Date: 3/12/2018											
Title: Senior Associate Company Name: ZFA Structural Engineers											
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<u>OSHPD</u>

"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: ☐ Other* (Please Specify): 											
OPM-0475-13											
*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.											
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):											
Other(s) (Please Specify):											
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS											
C · C/A											
Signature: Date: 3/20/2019 Print Name: Sonia Eliseo											
Title: SE											
Condition of Approval (if applicable):											

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





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EQUIPMENT MANUFACTURER:

MIDMARK CORPORATION

OPM-0475-13

03/07/2018

ZFA STRUCTURAL ENGINEERS

601 montgomery street | suite 1450 | san francisco ca 94111 | 415.243.4091 | zfa.com

JOB NO.: 18005 SHEET

DATE:

FOLIPMENT TYPE:

UNIT# 027-2093-00 THROUGH 027-2093-01 (PHOENIX SIDE DELIVERY)

OF 3

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GENERAL NOTES

- 1. 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.
- 2. SEISMIC DESIGN FORCES PER ASCE 7-10 SECTION 43.3.1, EQUATIONS 13.3-1, 13.3-2, 13.3-3, WHERE: $S_{DS} = 2.20$, $a_P = 1.0$, $I_P = 1.5 \& R_P = 2.5$, $z/h \le 1.0$. A FACTOR OF 0.7 IS APPLIED TO CALCULATE ASD LOADS. HORIZONTAL FORCE $(E_h) = 1.584 \text{ Wp (UNFACTORED)}$ VERTICAL FORCE (E_x) ≠ 0.440 Wp (UNFACTORED)
- 3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION WHERE THE Sps DOES NOT EXCEED 2.20.
- 4. ALL SEISMIC AND ANCHOR FORCES SHOWN ON THE DRAWINGS ARE UNFACTORED LOADS THAT SHALL BE USED FOR ALLOWABLE STRESS DESIGN (ASD).
- 5. 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)

- 7. DESIGN BACKING PLATES, STUDS, ETC. TO WHICH THE UNITS ARE ATTACHED, AS NOTED ON THE DRAWINGS.
- 8. 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.
- 9. PROVIDE ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- 10. 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.
- 11. VERIFY THAT THE COMBINATION OF S_{DS} & z/h RESULT IN SEISMIC FORCES (Eb., Eb.) THAT ARE NOT GREATER THAN THE VALUES IN THESE GENERAL NOTES.
- 12. VERIFY THAT THE ATTACHMENTS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY END OR EDGE OF METAL STUD.

OF CALIFORNIA

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EQUIPMENT MANUFACTURER:

MIDMARK CORPORATION

ZFA STRUCTURAL ENGINEERS

601 montgomery street | suite 1450 | san francisco ca 94111 | 415.243.4091 | zfa.com

OPM-0475-13

DATE: 03/07/2018

18005 JOB NO.:

SHEET

FOLIPMENT TYPE

UNIT# 027-2093-00 THROUGH 027-2093-01 (PHOENIX SIDE DELIVERY)

CABINET C.G. WT. = SEE SHEET 3 (INCLUDES CONTENTS) SMS TO WALL STRUCTURE (8 TOTAL). SEE SHEET 3 FOR SIZE WALL STRUCTURE WITH BACKING AS REQUIRED. **TYP** CONCRETE FLOOR (f'c = 3000 PSI MIN) PHIDIME FRONT ELEVATION 1 9 (1) OR (2) LAYERS OF %" THICK "DEPTH CABINET WALLBOARD, TYP C.G. WT. = SEE SHEET 3 (INCLUDES CONTENTS) SMS TO WALL STRUCTURE (8 TOTAL). SEE SHEET 3 FOR SIZE SEOR SHALL DESIGN THE WALL BACKING AND WALL STRUCTURE. MINIMUM THICKNESS = 16 ga "HEIGHT" MINIMUM Fy = 50 KSI MINIMUM Fu = 65 KSI **CONCRETE FLOOR** (f'c = 3000 PSI MIN) SIDE ELEVATION **NOTES** SEE SHEET 1 FOR GENERAL NOTES. OF CALIFORNIA

- 2. FOR UNIT GEOMETRY, WEIGHT, AND ANCHOR/ATTACHMENT FORCES, SEE SHEET 3. CENTER OF GRAVITY (CG) WEIGHT IS A MAXIMUM.
- A SIGN MUST BE POSTED ON ALL CABINETS TO INDICATE THE TOTAL WT LIMIT NOT TO BE EXCEED.
- MINIMUM SCREW SPACING = 3/4"; MINIMUM EDGE DISTANCE FOR SCREWS = 3/6"

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03/07/2018

ZFA STRUCTURAL ENGINEERS

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DATE:

)E 3

SHEET

EQUIPMENT TYPE

UNIT# 027-2093-00 THROUGH 027-2093-01 (PHOENIX SIDE DELIVERY)

UNIT # 027-2093-XX

							UNIT "HEIGHT" (in) =				31.69						
UNIT #	D (in)	E (in)	F (in)	G (in)	H (in)	J (in)	B (in)	UNIT "WIDTH" (in)	A (in)	UNIT "DEPTH" (in)	C (in)	UNIT WT (lb)	MEDIA WT (lb)	TOTAL WT (lb)	MAX SCREW LOADING T _a V _a		SMS
-00	17.3	7.5	3.8	4.2	13.1	20.9	22.9	42.0	34.0	17.0	16.9	244.1	0.0	244.1	78	34	#14
-01	17.3	7.5	3.8	4.2	20.9	13.1	22.9	42.0	34.0	17.0	15.7	244.1	0.0	244.1	78	34	#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 GUIDLINES.
 (ANSI/BIFMA X5.9-2012: TABLE 1- TEST LOADS AS USED FOR SECTION 4 UNIT STRENGTH TESTS)
- 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 EXCEED.
- 5. SCREW LOADS ARE ASD LEVEL VALUES.

