



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY
APPLICATION #: OPM-0221-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

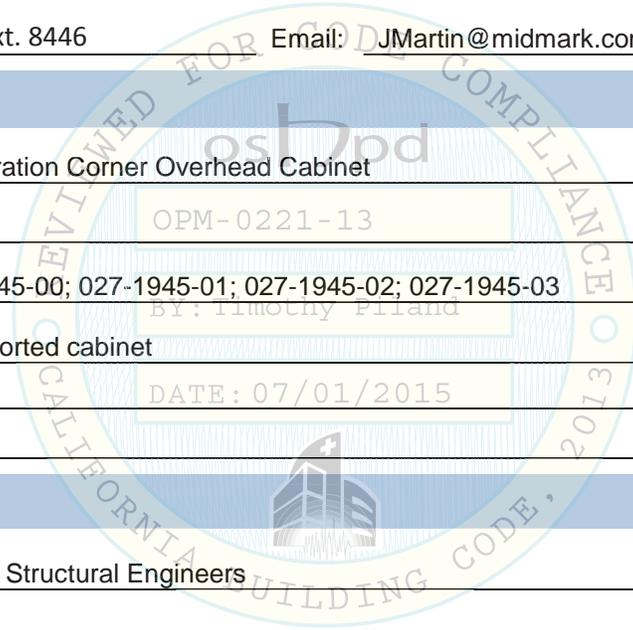
Type: [X] New [] Renewal [] Update to Pre-CBC 2013 OPA Number:

Manufacturer Information

Manufacturer: MIDMARK CORPORATION
Manufacturer's Technical Representative: Joe Martin
Mailing Address: 60 Vista Drive, Versailles, OH 45380
Telephone: 1-800-MIDMARK, ext. 8446 Email: JMartin@midmark.com

Product Information

Product Name: Midmark Corporation Corner Overhead Cabinet
Product Type: Cabinet
Product Model Number: 027-1945-00; 027-1945-01; 027-1945-02; 027-1945-03
General Description: Wall supported cabinet



Applicant Information

Applicant Company Name: ZFA Structural Engineers
Contact Person: Mark Moore
Mailing Address: 100 Bush Street, Suite 1850, San Francisco, CA, 94104
Telephone: 415-243-4091 Email: markm@zfa.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant: [Signature] Date: 4/06/2015
Title: Executive Principal Company Name: ZFA Structural Engineers



"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dvnamic 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: 4443

Mailing Address: 100 Bush Street, Suite 1850, San Francisco, 94104

Telephone: 415-243-4091 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 1950-10
- Other* (Please Specify): _____

*Use of criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) 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 2013 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 2013 ONLY

Signature:  Date: 07/01/2015

Print Name: Timothy Piland

Title: SSE

Condition of Approval (if applicable): _____

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-700 (REV 10/22/14)



MIDMARK CORPORATION CORNER OVERHEAD
CABINET UNITS 027-1945-00 THROUGH
027-1945-03

ENG/CKR: ARF DATE: 06/29/15
JOB NO.: 15113.20 SCALE:

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SHEET NO.:
1/4

OPM-0221-13
EQUIPMENT MANUFACTURER: MIDMARK CORPORATION
EQUIPMENT TYPE: CORNER OVERHEAD CABINET

GENERAL NOTES

1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.
2. 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 USED TO CALCULATE ASD LOADS.
HORIZONTAL FORCE (E_h) = 1.109 W_p
VERTICAL FORCE (E_v) = 0.308 W_p
3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION WITH AN S_{DS} OF 2.20g OR LESS.
4. ALL SEISMIC AND ANCHOR FORCES SHOWN ON THE DRAWINGS ARE BASED ON ALLOWABLE STRESS DESIGN.
5. SHEET METAL SCREWS (SMS) SHALL CONFORM TO ICC-ES ESR 1976 OR ICC-ES ESR-2196.
6. SEE SHEET 2 FOR LIGHT GAGE STEEL MINIMUM SPECIFICATIONS.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD (SEOR)

7. 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
8. PROVIDE ANY SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
9. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 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.
10. 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.
11. VERIFY THAT THE ATTACHMENTS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY END OR EDGE OF METAL STUD.

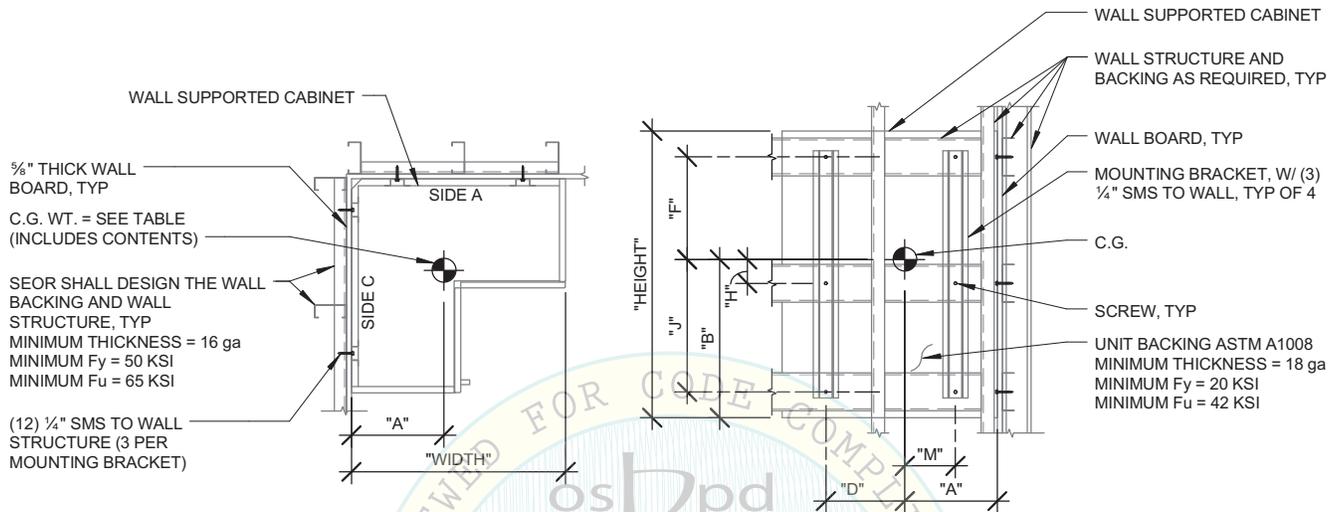


MIDMARK CORPORATION CORNER OVERHEAD
CABINET UNITS 027-1945-00 THROUGH
027-1945-03

ENG/CKR: ARF DATE: 05/08/15
JOB NO.: 15113.20 SCALE: 1/2" = 1'-0"

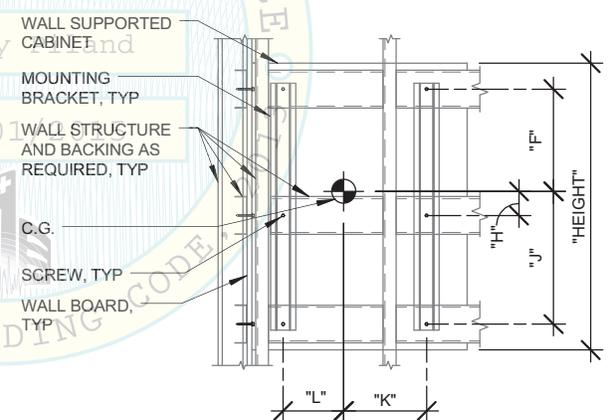
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SHEET NO.:
2/4



PLAN
(UNITS 027-1945-00 & 027-1945-01)

SIDE A ELEVATION
(UNITS 027-1945-00 & 027-1945-01)



SIDE C ELEVATION
(UNITS 027-1945-00 & 027-1945-01)

- NOTES**
- CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
 - FOR GENERAL NOTES, SEE SHEET 1.
 - FOR GEOMETRY, WEIGHT, AND ANCHOR FORCES, SEE SHEET 4.
 - MINIMUM SCREW SPACING = 3/4"; MINIMUM EDGE DISTANCE FOR SCREWS = 3/8"

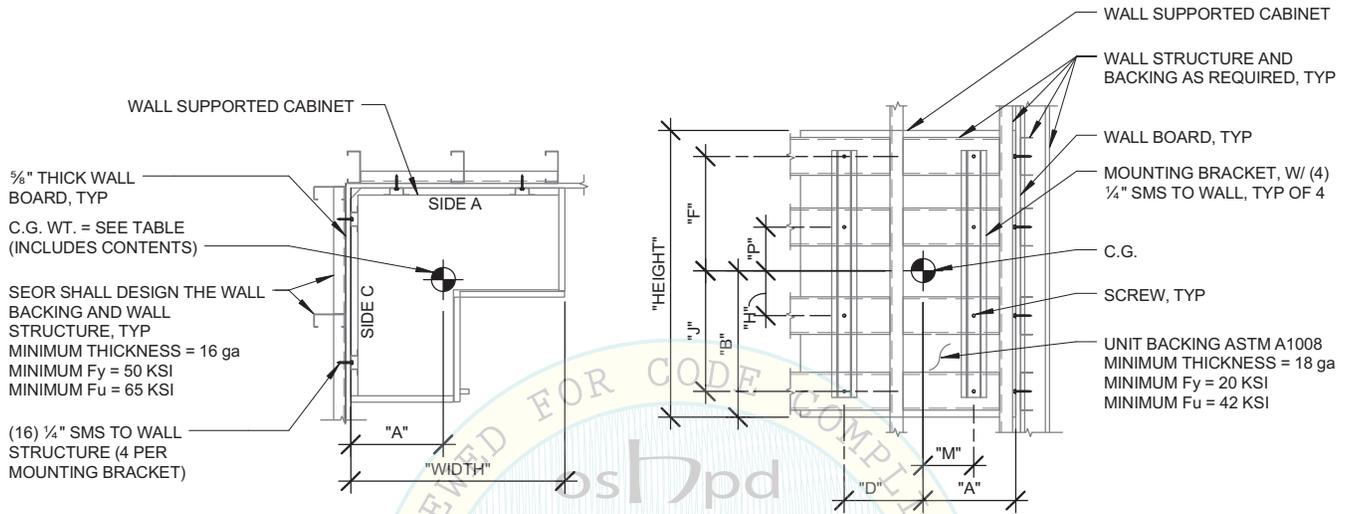


MIDMARK CORPORATION CORNER OVERHEAD
CABINET UNITS 027-1945-00 THROUGH
027-1945-03

ENG/CKR: ARF DATE: 06/25/15
JOB NO.: 15113.20 SCALE: 1/2" = 1'-0"

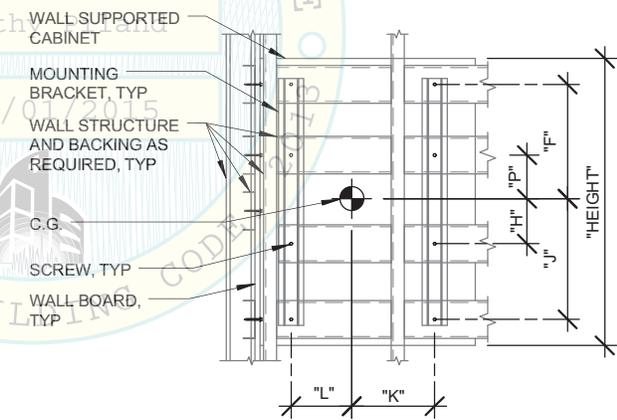
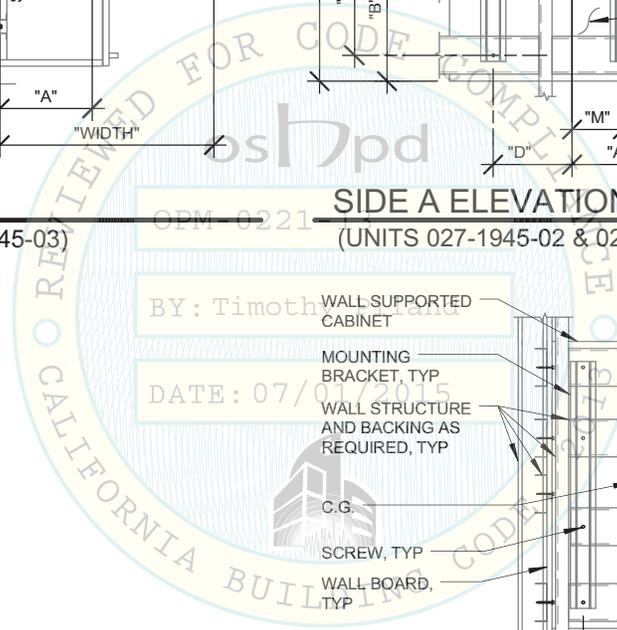
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SHEET NO.:
3/4



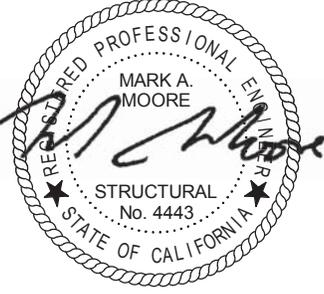
PLAN
(UNITS 027-1945-02 & 027-1945-03)

SIDE A ELEVATION
(UNITS 027-1945-02 & 027-1945-03)



SIDE C ELEVATION
(UNITS 027-1945-02 & 027-1945-03)

- NOTES**
1. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
 2. FOR GENERAL NOTES, SEE SHEET 1.
 3. FOR GEOMETRY, WEIGHT, AND ANCHOR FORCES, SEE SHEET 4.
 4. MINIMUM SCREW SPACING = 3/4"; MINIMUM EDGE DISTANCE FOR SCREWS = 3/8"



MIDMARK CORPORATION CORNER OVERHEAD
 CABINET UNITS 027-1945-00 THROUGH
 027-1945-03

ENG/CKR: ARF DATE: 05/08/15
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SHEET NO.:
4/4

Part No.	Max Operating Weight (lbs)	Width	Height	Depth	"A" (in)	"B" (in)	"C" (in)	"D" (in)	"E" (in)	"H" (in)	"J" (in)	"K" (in)	"L" (in)	"M" (in)	"P" (in)	T max (lbs/screw)	V max (lbs/screw)
027-1945-00	205	27.0	18.0	27.0	11.7	8.8	11.5	10.0	5.9	0.94	5.6	10.3	5.3	5.6		207	68
027-1945-01	270	27.0	24.0	27.0	11.7	11.8	11.5	10.1	8.9	0.94	8.6	10.3	5.3	5.5		210	89
027-1945-02	332	27.0	30.0	27.0	11.6	14.8	11.5	10.1	11.9	3.93	11.6	10.3	5.3	5.4	5.1	179	82
027-1945-03	397	27.0	36.0	27.0	11.6	17.8	11.4	10.2	14.9	3.93	14.6	10.3	5.3	5.4	5.1	195	98

