



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

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

OFFICE USE ONLY	
APPLICATION #:	OPM-0186-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

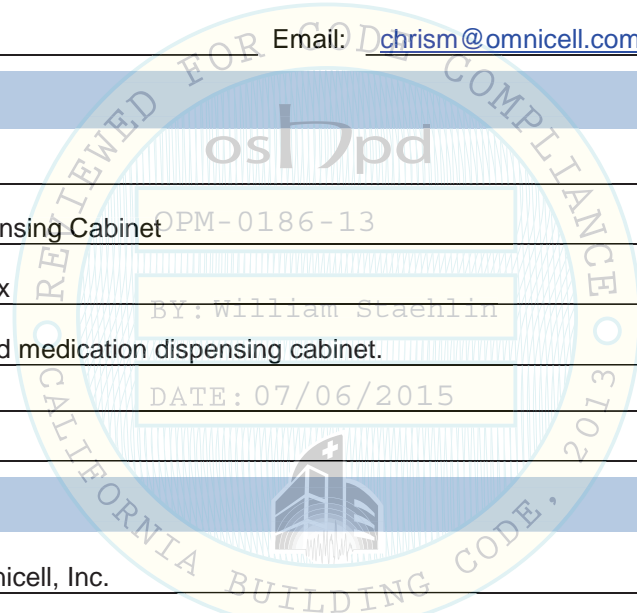
Type: New Renewal Update to Pre-CBC 2013 OPA Number: OPA-2022-07

Manufacturer Information

Manufacturer: Omniceil, Inc.
 Manufacturer's Technical Representative: Chris Muir
 Mailing Address: 590 E. Middlefield Road, Mountain View, CA 94043
 Telephone: 650-251-6329 Email: chrism@omnicell.com

Product Information

Product Name: OmniRx
 Product Type: Automated Dispensing Cabinet
 Product Model Number: OmniRx
 General Description: Automated medication dispensing cabinet.



Applicant Information

Applicant Company Name: Omniceil, Inc.
 Contact Person: Chris Muir
 Mailing Address: 590 E. Middlefield Road, Mountain View, CA 94043
 Telephone: 650-251-6329 Email: chrism@omnicell.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: Date: 1/7/2014
 Title: Design Engineer Company Name: Omniceil, Inc.

"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: Degenkolb Engineers

Name: Adrian Nacamuli California License Number: SE 4857

Mailing Address: 1300 Clay Street, Suite 900, Oakland, CA 94612

Telephone: 510-250-1216 Email: anacamuli@degenkolb.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: *William Staehlin* Date: 07/06/2015

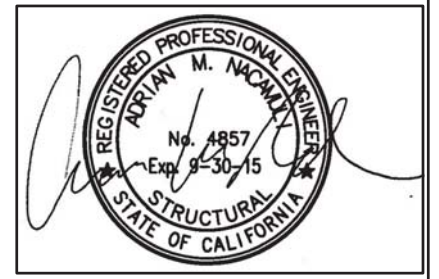
Print Name: William Staehlin

Title: SSE

Condition of Approval (if applicable): _____

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





OMNICELL OMNIRX CABINETS

MODELS MDA-FRM-005, MDA-FRM-005-CI, MDA-FRM-007-INT, NAC-FRM-003, RXAX, RXAX-INT, RXBLU, RXCT AND RXCT-INT

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. PRE-APPROVED DESIGN AND MATERIALS CONFORM WITH THE 2013 EDITION OF THE CALIFORNIA BUILDING CODE. DETAILS WITHIN THIS APPROVAL MAY BE USED ANYWHERE IN THE STATE OF CALIFORNIA WHERE $S_{DS} \leq 2.5$.
3. SEISMIC FORCES ON EQUIPMENT DETERMINED PER THE 2013 CBC & ASCE 7-10 SECTION 13.3. ALL LOADS IN THIS PRE-APPROVAL ARE AT STRENGTH LEVEL AND SHALL BE USED FOR STRENGTH DESIGN.
 - a. CASE 1 (EQUIPMENT ABOVE GRADE TO ROOF): $S_{DS} \leq 2.5$, $a_p=1.0$, $R_p=1.5$, $I_p=1.5$, $\Omega_o=1.5$, $z/h \leq 1.0$
 - i. $F_p=3.00W_p$, $F_v=0.50W_p$
 - b. CASE 2 (EQUIPMENT AT OR BELOW GRADE): $S_{DS} \leq 2.5$, $a_p=1.0$, $R_p=1.5$, $I_p=1.5$, $z/h = 0.0$, $\Omega_o=1.5$
 - i. $F_p=1.13W_p$, $F_v=0.50W_p$
4. THE STRUCTURAL ENGINEER-OF-RECORD (S.E.O.R.) IS RESPONSIBLE FOR THE FOLLOWING:
 - a. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB OPENINGS OR EDGES.
 - b. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS.
 - c. DESIGN ANY SUPPLEMENTARY MEMBERS AND THEIR ATTACHMENTS WHICH THE UNIT IS ANCHORED TO. VERIFY THE ADEQUACY OF ANY EXISTING MEMBERS AND THEIR ATTACHMENTS WHICH THE UNIT IS ANCHORED TO FOR THE FORCES EXERTED ON THEM BY THE UNIT IN ADDITION TO ALL OTHER LOADS AND FORCES.
 - d. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL. VERIFY THAT THE EQUIPMENT'S ACTUAL WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE FORMATION SHOWN IN THIS PRE-APPROVAL.
5. STRUCTURAL ENGINEER-OF-RECORD (S.E.O.R.) SHALL EVALUATE BRACKET ANCHORAGE FOR CONDITIONS THAT VARY FROM THIS PRE-APPROVAL.
6. CONTRACTOR/INSPECTOR OF RECORD MUST VERIFY ANCHOR SPACING TO ADJACENT EQUIPMENT IS TO BE GREATER THAN 12".
7. THIS OPM COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE UNIT TO THE STRUCTURE
8. EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB-TZ (ICC ESR-1917). INSTALL ANCHORS IN ACCORDANCE WITH THE ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS. TEST AT LEAST 50% OF ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATIONS. TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE INSPECTOR OF RECORD (IOR) AND A REPORT OF THE TEST SHALL BE SUBMITTED TO OSHPD.
TEST PER ONE OF THE FOLLOWING METHODS:
 - a. DIRECT PULL TENSION TEST. ANCHOR IS ACCEPTABLE IF NO MOVEMENT IS OBSERVED AT THE TEST LOAD GIVEN IN TABLE BELOW. MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.
 - b. TORQUE WRENCH TEST: TEST ANCHORS TO THE REQUIRED TORQUE LOAD GIVEN IN TABLE BELOW WITHIN THE LIMIT OF ONE-HALF TURN OF THE NUT.
9. IF ANY ANCHOR FAILS DURING TESTING, UNIT MUST BE MOVED SO THAT NO ANCHOR IS WITHIN 12" OF AN ABANDONED ANCHOR.
10. A MANUFACTURER PROVIDED PERMANENT PLAQUE MUST BE AFFIXED ON THE UNIT STATING THE FOLLOWING: "WEIGHT OF CONTENTS SHALL NOT EXCEED 10 PCF". DESIGNED WEIGHT OF CONTENTS IS 20 PCF. VERIFY IN FIELD BEFORE INSTALLATION.
11. FOR BOLTS THROUGH CONCRETE ON METAL DECK
 - A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER THE SNUG TIGHT CONDITION (SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT) IS ACHIEVED.
 - B. THROUGH BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH REQUIREMENTS FOR POST-INSTALLED ANCHORS.
12. INSTALLATION PROCEDURE:
 - a. MOUNT BASE BRACKET PROVIDED BY OMNICELL TO FLOOR WITH THROUGH BOLTS OR EXPANSION ANCHORS RESPECTIVELY.
 - b. ROLL UNIT ONTO BASE BRACKET WITH DOWEL PIN INSERTING INTO BACK CASING OF UNIT.
 - c. PIN UNIT AT FRONT WITH END PLATE, CONNECTING IT TO BOTH THE UNIT CASING AND THE CASE BRACKET.

ANCHOR TEST LOAD VALUES: (NORMAL WEIGHT CONCRETE)

ANCHOR TYPE	ANCHOR DIAMETER	EMBED h_{ef}	TENSION LOAD (LBS)	TORQUE LOAD (FT-LBS)	f'c MIN (PSI)	MINIMUM SPACING AND EDGE DIST. REQ.
HILTI KB-TZ	5/8"	3-1/8"	3,125	60	3,000	5.80"

OMNICELL OMNIRX CABINETS

MODELS MDA-FRM-005, MDA-FRM-005-CI, MDA-FRM-007-INT, NAC-FRM-003, RXAX, RXAX-INT, RXBLU, RXCT AND RXCT-INT

CASE 1 – EQUIPMENT ABOVE GRADE

MODEL	Wp (LBS)	FORCES					CABINET PROPERTIES		
		Rult* (LBS)	Vult* (LBS/BOLT)	Ω_o Vult (LBS/BOLT)	Tult* (LBS/BOLT)	Ω_o Tult (LBS/BOLT)	L (in)	W (in)	H (in)
ALL MODELS (SEE TITLE BLOCK)	850	1,525	360	540	1,255	1,855	25 7/8	22 5/8	45 9/32

* Does not include overstrength factor (Ω_o)

$F_p = 3.00 W_p [S_{DS} \leq 2.5, I_p = 1.5, R_p = 1.5, a_p = 1.0, \Omega_o = 1.5, z/h \leq 1.0]$

$F_v = 0.50 W_p$

Rult = MAXIMUM BRACKET PIN UPLIFT FORCE AT STRENGTH LEVEL

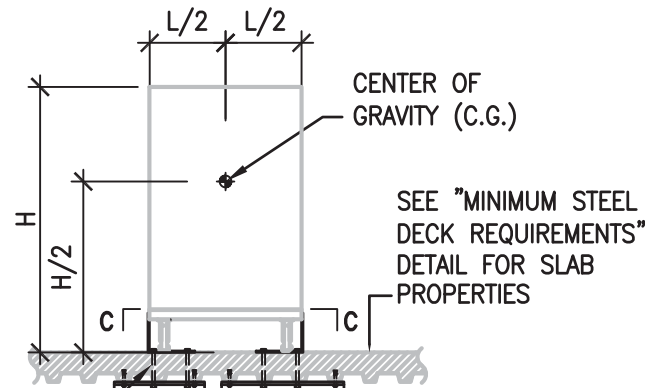
Vult = MAXIMUM SHEAR PER THROUGH BOLT AT STRENGTH LEVEL

Tult = MAXIMUM THROUGH BOLT TENSION FORCE AT STRENGTH LEVEL

Wp = TOTAL WEIGHT; INCLUDES 20 pcf CONTENTS PER NOTE 10 ON PAGE 1 OF 4

NOTES:

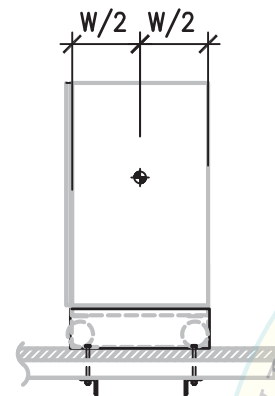
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2. Rult, Vult AND Tult GIVEN ARE FACTOR LOADS AT STRENGTH LEVEL. FINAL DEMAND FORCES FOR ANCHORAGE TO CONCRETE SHALL INCLUDE OVERSTRENGTH FACTOR Ω_o AS DEFINED BY ASCE 7-10.
3. FOR THE SUPPORT AND ATTACHMENT DESIGN, THE MOST CRITICAL LOAD COMBINATION IS $(0.9 - 0.2S_{DS}) \times DL$
4. SEE GENERAL NOTES SECTION ON PAGE 1.
5. SEE PAGE 4 OF 4 FOR LOCATION OF APPLIED FORCES IN BASE BRACKET.
6. SEE PAGE 4 OF 4 FOR MANUFACTURER BRACKET INFORMATION.
7. S.E.O.R. MAY RECALCULATE MAX. ANCHOR FORCES Rult, Vult AND Tult, AT THEIR DISCRETION, BASED ON PROJECT SPECIFIC SEISMIC DEMANDS SUBJECT TO OSHPD REVIEW/PERMIT.
8. TOTAL WEIGHT (Wp) IS A MAXIMUM. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM SHOWN.
9. EQUIPMENT MANUFACTURER MUST DESIGN UNIT TO MAKE Hcg EQUAL OR LESS THAN THE HEIGHT DIMENSION SHOWN.
10. FOR SLABS OR CONCRETE FILL GREATER THAN 5" THICK WITH $f'_c \geq 3000$ PSI NORMAL WEIGHT CONCRETE, MAY USE $\frac{5}{8}$ " \emptyset HILTI KB-TZ W/ 3-1/8" EMBED IN LIEU OF THROUGH BOLTS.



MAXIMUM DRILLED HOLE SIZE = BOLT DIAM. + $\frac{1}{16}$ "

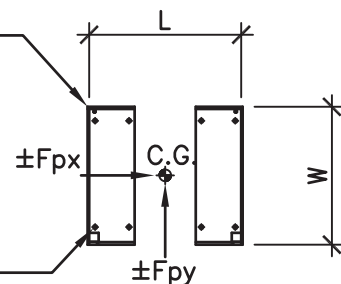
L4X4X $\frac{1}{4}$; TYP
ASTM A36

**FRONT ELEVATION
OMNIRX**



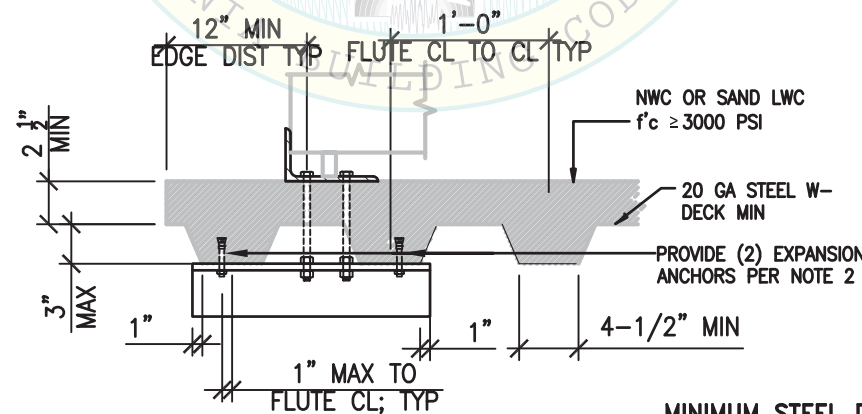
SIDE ELEVATION

BASE BRACKET.
SEE PAGE 4 OF 4 FOR
PROPERTIES



5/8" \emptyset A307 THROUGH BOLTS IN STANDARD HOLE AT BASE BRACKET AND ANGLE BELOW SLAB. 4 TOTAL PER BRACKET

PLAN SECTION C-C



MINIMUM STEEL DECK REQUIREMENTS

MINIMUM STEEL DECK REQUIREMENTS NOTES:

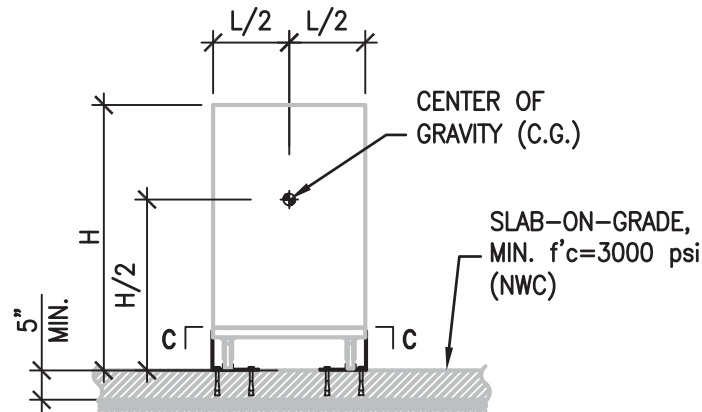
1. PROVIDE 12" MINIMUM DISTANCE TO EDGE OF SLAB, OPENINGS OR OTHER ATTACHMENTS
2. PROVIDE (2) $\frac{3}{8}$ " \emptyset HILTI KB-TZ W/ 2" EMBED EXPANSION ANCHORS TO SUPPORT ANGLE. INSTALL ON THE SLAB RIB INDEPENDENT FROM THROUGH BOLTS. EXTEND ANGLE AS REQUIRED. DO NOT INSTALL EXPANSION ANCHORS IN SLAB RIBS WHERE THROUGH BOLTS ARE PRESENT
3. PROVIDE THROUGH BOLT WITH DOUBLE NUT AT L4X4 ANGLE BELOW THE DECK. WHERE TOP NUT CAN'T BE PROVIDED, PROVIDE TAPPED HOLE THROUGH ANGLE FLANGE



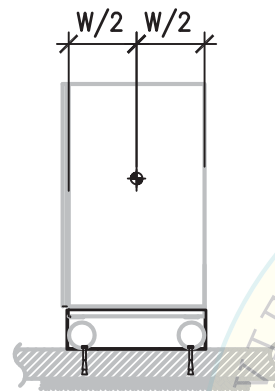
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CASE 2 – EQUIPMENT AT OR BELOW GRADE



FRONT ELEVATION
OMNIRX



SIDE ELEVATION

MODEL	Wp (LBS)	FORCES					CABINET PROPERTIES		
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$F_p = 1.13 W_p [S_{ps} \leq 2.5, I_p = 1.5, R_p = 1.5, a_p = 1.0, \Omega_o = 1.5, z/h = 0]$

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Rult = MAXIMUM BRACKET PIN UPLIFT FORCE AT STRENGTH LEVEL

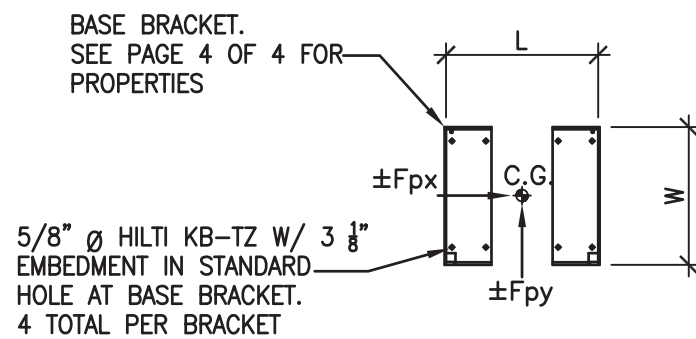
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NOTES: 07/06/2015

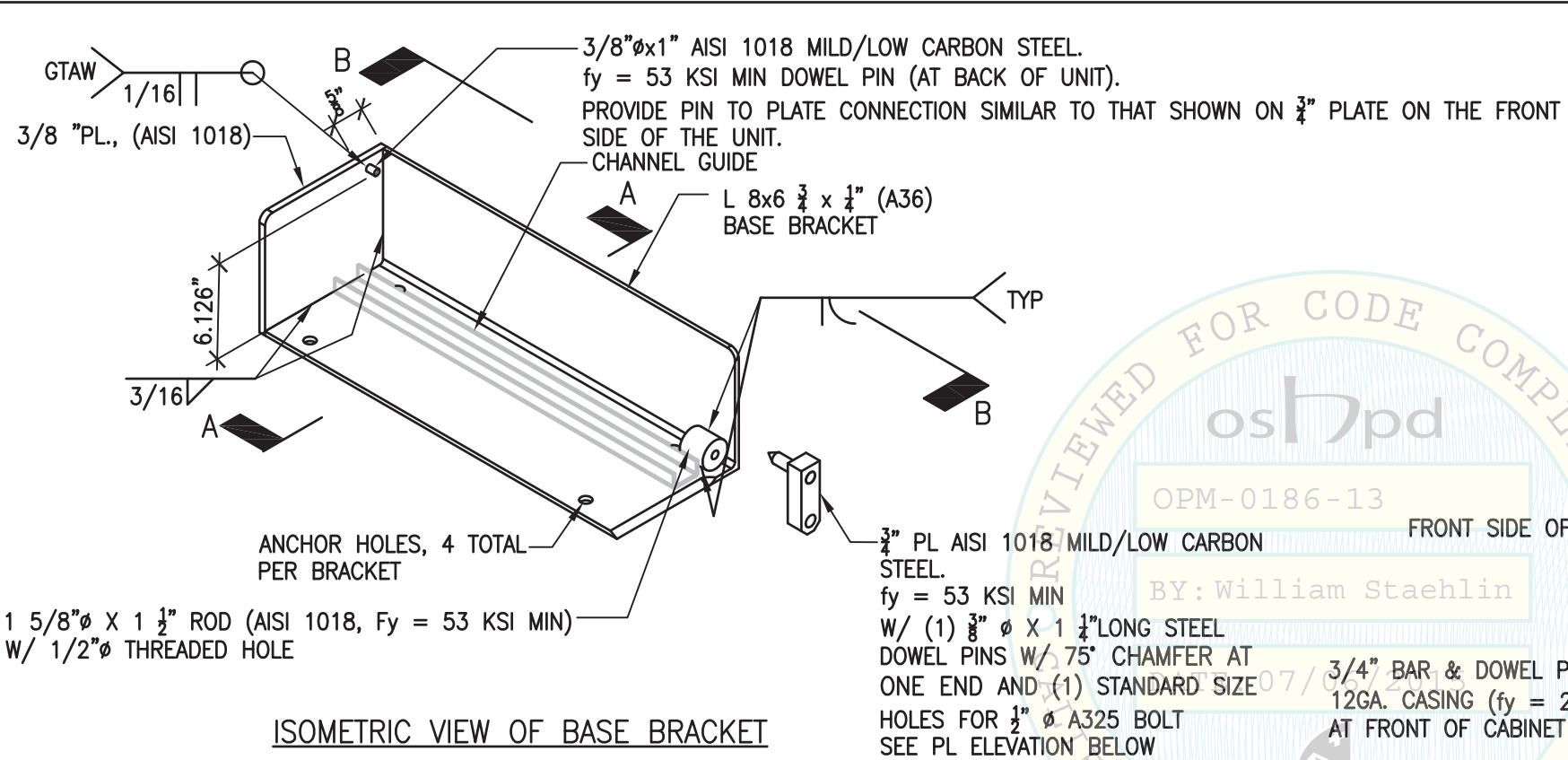
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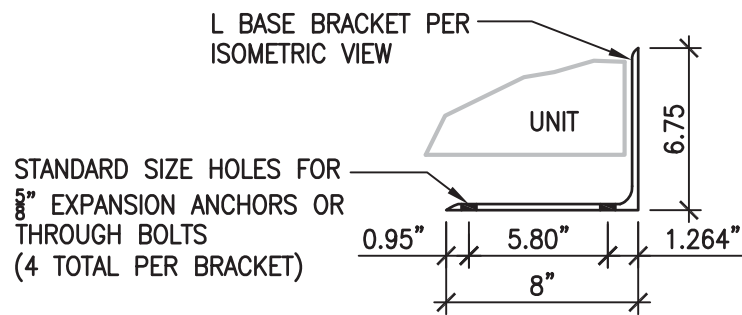
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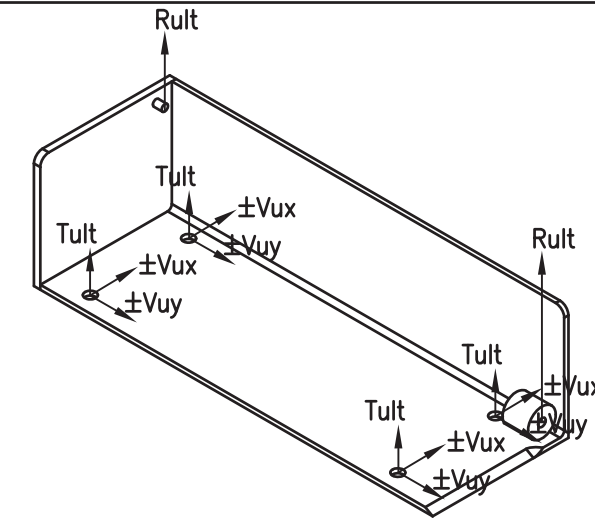


ISOMETRIC VIEW OF BASE BRACKET

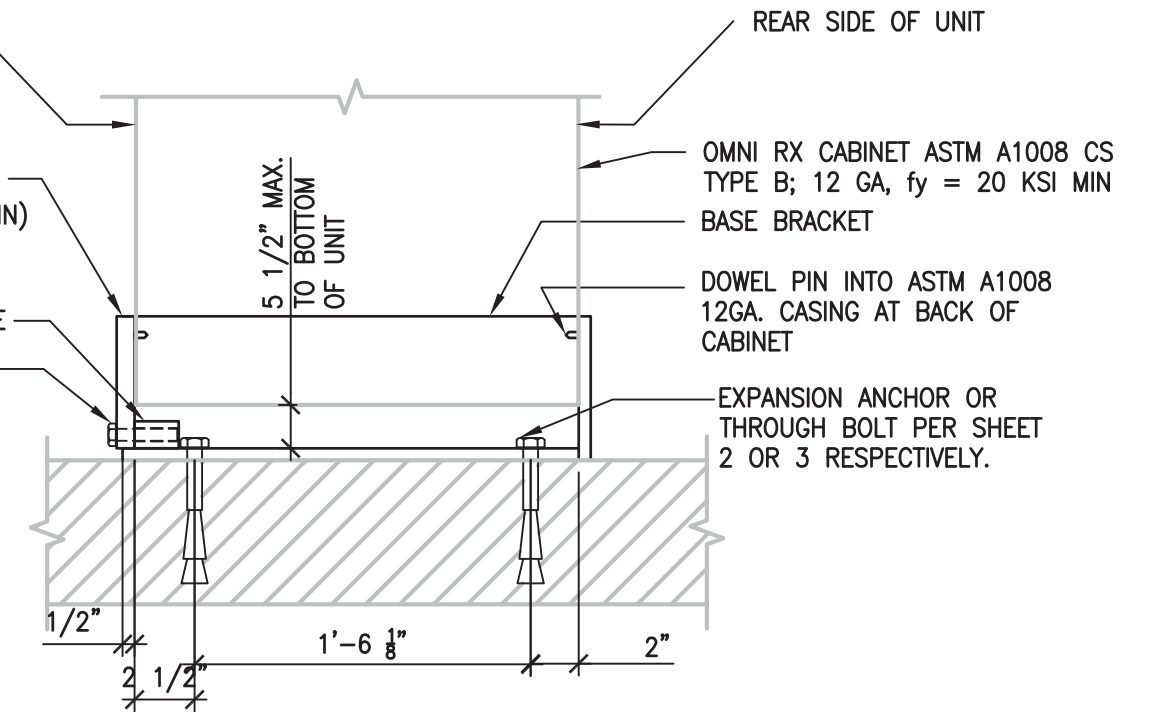


SECTION A-A

3/4" PL ON THE FRONT SIDE OF THE UNIT
(PLATE/PIN MEMBER SUPPLIED BY MANUFACTURER)



FORCE DISTRIBUTION IN BASE BRACKET



SECTION B-B