



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR HCAI SPECIAL SEISMIC  
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

**APPLICATION #: OSP-0601**

**HCAI Special Seismic Certification Preapproval (OSP)**

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: Daikin Applied

Manufacturer's Technical Representative: Art Rizoli

Mailing Address: 207 Laurel Hill Rd. Verona, VA 24482

Telephone: (540) 248-9539

Email: Art.rizoli@daikinapplied.com

**Product Information**

Product Name: Chillers

Product Type: Chillers - Water Cooled

Product Model Number: Varies (See Attachment)

General Description: Centrifugal Chillers.

Mounting Description: Rigid and Neoprene Pad Isolated, Floor Mounted

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

**Applicant Information**

Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

Contact Person: Galen Reid

Mailing Address: 233 SW Wilson Ave., Suite 101 Bend, OR 97702

Telephone: (541) 604-7225

Email: greid@structint.com

Title: Director, TRU Compliance





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FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

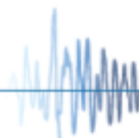
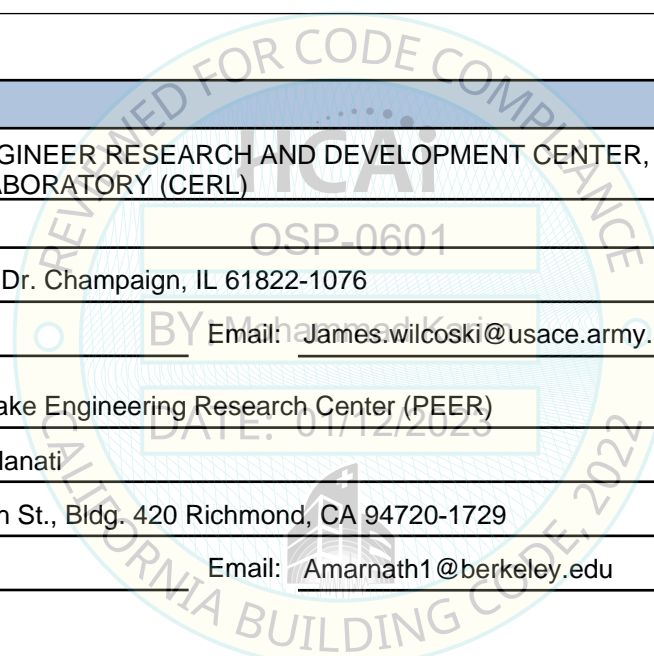
Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.
Name: Andrew Coughlin California License Number: S6082
Mailing Address: 5215 Hellyer Ave, Suite 101 San Jose, CA 95138-1025
Telephone: (415) 635-8461 Email: acoughlin@structint.com

Certification Method

GR-63-Core [X] ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):

Testing Laboratory

Company Name: U.S. ARMY ENGINEER RESEARCH AND DEVELOPMENT CENTER, CONSTRUCTION ENGINEERING RESEARCH LABORATORY (CERL)
Contact Person: James Wilcoski
Mailing Address: 2902 Newmark Dr. Champaign, IL 61822-1076
Telephone: (217) 373-6763 Email: James.wilcoski@usace.army.mil
Company Name: Pacific Earthquake Engineering Research Center (PEER)
Contact Person: Amarnath Kasalanati
Mailing Address: 1301 South 46th St., Bldg. 420 Richmond, CA 94720-1729
Telephone: (510) 642-3437 Email: Amarnath1@berkeley.edu





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**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) = Rigid: 1.50 (SDS =2.0, Z/h =1); 1.13 (SDS =2.5, z/h =0.0); Isolated: 3.60 (SDS =2.0, Z/h =1); 1.50 (SDS =2.5, z/h =0)

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SDS (Design spectral response acceleration at short period, g) = 2.0 (z/h = 1); 2.5 (z/h = 0)

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$a_p$  (Amplification factor) = 2.5

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$R_p$  (Response modification factor) = 6 (Rigid); 2.5 (Neoprene Pad Isolated)

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$\Omega_0$  (System overstrength factor) = 2.0

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$I_p$  (Importance factor) = 1.5

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z/h (Height ratio factor) = 1 and 0

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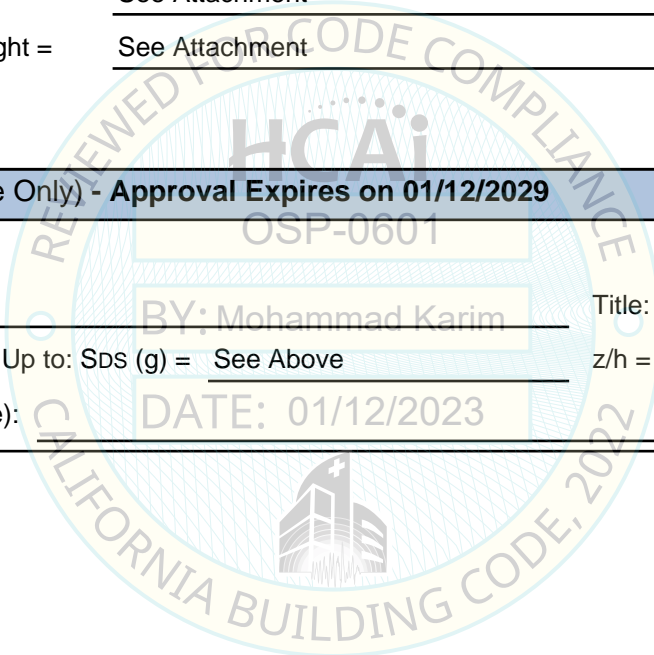
Natural frequencies (Hz) = See Attachment

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Overall dimensions and weight = See Attachment

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<b>HCAI Approval (For Office Use Only) - Approval Expires on 01/12/2029</b>			
Date:	<u>01/12/2023</u>		
Name:	<u>Mohammad Karim</u>	BY: <u>Mohammad Karim</u>	Title: <u>Supervisor, Health Facilities</u>
Special Seismic Certification Valid Up to:	SDS (g) = <u>See Above</u>	z/h =	<u>See Above</u>
Condition of Approval (if applicable):	<u>DATE: 01/12/2023</u>		



# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1700688-CR-001-R1



<b>Manufacturer:</b> Daikin Applied						<b>TABLE 1</b>	
<b>Model Line:</b> Magnitude Magnetic Bearing Centrifugal Chillers							
<b>Certified Product Construction Summary:</b> Carbon Steel							
<b>Certified Options Summary:</b> Subcomponents and options are summarized in Table 2 through Table 3.							
<b>Mounting Configuration:</b> Base mounted - rigid & neoprene isolated Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
<b>Building Code: CBC 2022</b> <b>Seismic Certification Limits:</b> $S_{DS} = 2.0g$ $z/h = 1.0$ $I_P = 1.5$ $S_{DS} = 2.5g$ $z/h = 0.0$							
Model Line	Model <sup>1</sup>	Dimensions (in) <sup>2</sup>			Weight (lb.) <sup>3</sup>	Notes	UUT
		Depth	Width	Height			
Magnitude® Magnetic Bearing Centrifugal Chillers, Model WMC, (125-400 tons)	WMC060DC/E3009	168.5	55.2	94.3	9,555		3
Magnitude® Magnetic Bearing Centrifugal Chillers, Model WME (400-1600 tons)	WME501 E3012/C2612	168.0	68.0	97.0	14,307		Interp.
	WME501 E3012/C3012	168.0	71.0	101.0	15,958		Interp.
	WME501 E3612/C3012	170.0	71.0	116.0	18,709		Interp.
	WME701 E3612/C3612	170.0	88.0	107.0	22,479		Interp.
	WME701 E3612/C3012	170.0	85.0	101.0	19,423		Interp.
	WME092AS	194.9	96.1	102.7	25,557		Interp.
	WME092BS	194.9	96.1	102.7	25,557		Interp.
	WME106AS	195.1	101.8	108.7	30,731		Interp.
	WME106BS	195.2	101.8	108.7	30,371		Interp.
	WME092AD	252.0	116.0	110.0	48,490		Interp.
	WME092BD	252.0	116.0	110.0	48,490		Interp.
	WME106AD	252.0	116.0	110.0	48,490		Interp.
	WME106BD	252.0	116.0	110.0	48,490		Interp.
	WME099AD	252.0	116.0	110.0	48,490		Interp.
WME099BD	252.0	116.0	110.0	48,490		4	
<b>Notes:</b>							
1. WME 501/701 are identical to WME096/099/106 except for software.							
2. All WME model configurations limited to dimensions of UUT4.							
3. All WME model configurations limited to weight of UUT4.							

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700688-CR-001-R1



<b>Manufacturer:</b> Daikin Applied	<b>Table Description:</b> Compressors, Evaporators, & Condensers	<b>TABLE 2</b>
<b>Model Line:</b> Magnitude Magnetic Bearing Centrifugal Chillers		

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.0g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.5g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Compressor	Danfoss/Turbocor	TT700	380V to 460V, 318 lbs., 20.4"x31"x19.2"	Magnetic Bearing Compressor with Integral Motor and Variable Frequency Drive (Cast Aluminum Shell)	3
	Daikin	092A	32.91"d x 44.85"w x 24.5"h, 961 lbs.	Magnetic Bearing Compressor (Carbon Steel)	4
		092B	32.91"d x 44.85"w x 24.5"h, 961 lbs.		Interp.
		106A	35.21"d x 44.95"w x 25.2"h, 1118 lbs.		4
		106B	35.21"d x 44.95"w x 25.2"h, 1118 lbs.		Interp.
Evaporator	Daikin	E2209	22"ø x 9"h, 1624 lbs.	Carbon Steel ASME Shell with Copper Tubes	Extrap.
		E2212	22"ø x 12"h, 2803 lbs.		Extrap.
		E2609	26"ø x 9"h, 2271 lbs.		Extrap.
		E2612	26"ø x 12"h, 2907 lbs.		Extrap.
		E3009	30"ø x 9"h, 3032 lbs.		3
		E3012	30"ø x 12"h, 3861 lbs.		Interp.
		E3612	36"ø x 12"h, 5669 lbs.		Interp.
		E4216	42"ø x 16"h, 10200 lbs.		4

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700688-CR-001-R1



<b>Manufacturer:</b>	Daikin Applied	<b>Table Description:</b> Compressors, Evaporators, & Condensers	<b>TABLE 2</b>
<b>Model Line:</b>	Magnitude Magnetic Bearing Centrifugal Chillers		

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.0 g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.5 g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Condenser	Daikin	C2009	20"ø x 9"h, 1926 lbs.	Carbon Steel ASME Shell with Copper Tubes	Extrap.
		C2012	20"ø x 12"h, 2381 lbs.		Extrap.
		C2209	22"ø x 9"h, 2228 lbs.		Extrap.
		C2212	22"ø x 12"h, 2716 lbs.		Extrap.
		C2609	26"ø x 9"h, 3189 lbs.		3
		C2612	26"ø x 12"h, 3806 lbs.		Interp.
		C3012	30"ø x 12"h, 5011 lbs.		Interp.
		C3612	36"ø x 12"h, 7264 lbs.		Interp.
		C4212	42"ø x 12"h, 9706 lbs.		Interp.
		C4216	42"ø x 16"h, 13367 lbs.		4

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700688-CR-001-R1



<b>Manufacturer:</b> Daikin Applied <b>Model Line:</b> Magnitude Magnetic Bearing Centrifugal Chillers		<b>Table Description:</b> Electrical Subcomponents		<b>TABLE 3</b>	
<b>Building Code:</b> CBC 2022		<b>Seismic Certification Limits:</b>		$S_{DS} = 2.0g \quad z/h = 1.0$ $S_{DS} = 2.5g \quad z/h = 0.0$	
Component Type	Manufacturer	Model	Description	Notes	UUT
Motor	Daikin	M7-092Y	450hp, 380V - 480V, Al shell 32.91"d x 44.85"w x 24.5"h, 961 lbs.	Permanent Magnet	4
		M7-092X	450hp, 380V - 480V, Al shell 32.91"d x 44.85"w x 24.5"h, 961 lbs.		Interp.
		M9-106Y	600hp, 380V - 480V, Al shell 35.21"d x 44.95"w x 25.19"h, 1118 lbs.		Interp.
		M9-106X	600hp, 380V - 480V, Al shell 35.21"d x 44.95"w x 25.19"h, 1118 lbs.		4
VFD Starter	PSI	FRN0520E2S-4UDA-220C	20.87"d x 57.75"w x 57.75"H, 1155 lbs.		4
		FRN0590E2S-4UDA-280C	20.87"d x 57.75"w x 57.75"H, 1155 lbs.		Interp.
		FRN0650G1S-4UDA-315C	20.87"d x 62.5"w x 62.13"H, 1155 lbs.		Interp.
		FRN0740G1S-4UDA-355C	20.87"d x 62.5"w x 62.13"H, 1155 lbs.		Interp.
		FRN160VG1S-4UDA-160C	20.87"d x 85"w x 57.5"H, 1575 lbs.		Interp.
		FRN200VG1S-4UDA-200C	20.87"d x 85"w x 57.5"H, 1575 lbs.		Interp.
Controllers	PSI	Part 331346712	MicroTech, Siemens/PC based 8.9"d x 18.2"w x 25"h, 79 lbs.	Unit Controller	4
	Benshaw/Carel	Part 332830705	MicroTech II, Carel based, Carbon Steel 8.9"d x 16"w x 32.8"h, 75 lbs.		3
Operator Interface	Tru-Vu	Part 331670401	OITS, 21" Touch Screen, Plastic 2.2"d x 20.7"w x 12.6"h, 6.4 lbs.		3, 4

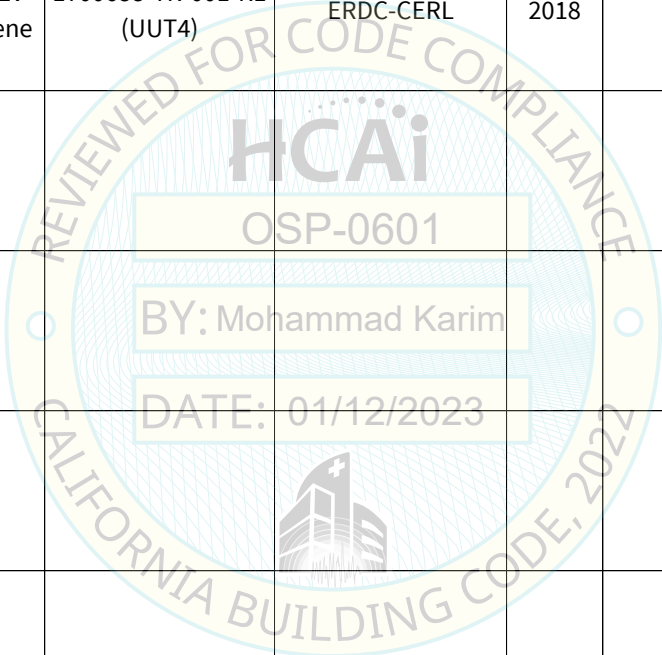
# UNIT UNDER TEST (UUT) SUMMARY SHEET

1700688-CR-001-R2



**Manufacturer:** Daikin Applied  
**Model Line:** Magnitude Magnetic Bearing Centrifugal Chillers

UUT	Unit Description (Mounting)	Report Number (UUT#)	Testing Lab	Year Tested	ISO 17025 Accredited?	S <sub>DS</sub>	z/h	I <sub>P</sub>
3	WMC060DC/E3009- HB2CL2V/C2609-GB2CL2V (Base mounted - Neoprene Pad Isolated)	15046-TR-001-R1 (UUT3)	Pacific Earthquake Engineering Research (PEER)	2017	Yes	2.0 2.5	1.0 0.0	1.5
4	WME099BD/E4216- YE2CR2V/C4216-JB2CR2V (Base mounted - Neoprene Pad Isolated)	1700688-TR-001-R1 (UUT4)	ERDC-CERL	2018	No <sup>1</sup>	2.0 2.5	1.0 0.0	1.5



**Notes:**  
1. ERDC-CERL is not ISO 17025 accredited at the time of testing but has been reviewed by TRU Compliance and found to meet the requirements for ICC-ES AC156 testing. Review form is on file with TRU Compliance.



# UNIT UNDER TEST (UUT) SUMMARY SHEET

1700688-CR-001-R2



<b>Manufacturer:</b> Daikin Applied	<b>UUT 3</b>
<b>Model Line:</b> Magnitude Magnetic Bearing Centrifugal Chillers	
<b>Model Number:</b> WMC060DC/E3009-HB2CL2V/C2609-GB2CL2V <b>Serial Number:</b> 517A000900	

**Product Construction Summary:**  
Carbon Steel

**Options/Subcomponent Summary:**  
**Compressor:** Danfoss/Turbocor (TT700); **Evaporator:** Daikin (E3009); **Condensor:** Daikin (C2609);  
**Controllers:** Benshaw/Carel (Part 332830705); **Operator Interface:** Tru-Vu (Part 331670401);  
**Power Panel:** Benshaw (BOX-ELEC,BEN-WMC\_350D\_C\_TT700\_01640\_TT700\_01640\_D\_00460\_H6\_A\_S\_D\_N\_N\_S\_N\_N\_N\_S\_RA)

**UUT Properties**

Weight (lb.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
9,555	168.5	55.2	94.3	14.2	14.3	12.8

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.67	0.67
		2.5	0.0					

**Test Mounting Details:** (Test Report: 15046-TR-001-R1)(UUT3)



UUT3 was base mounted - rigid to the table using eight (8) 1" SAE Grade 8 bolts, washers and a 1/4" ribbed neoprene pad under each mounting foot (4).  
 Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
 Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1700688-CR-001-R2



<b>Manufacturer:</b> Daikin Applied	<b>UUT 4</b>
<b>Model Line:</b> Magnitude Magnetic Bearing Centrifugal Chillers	
<b>Model Number:</b> WME099BD/E4216-YE2CR2V/C4216-JB2CR2V <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Carbon Steel

**Options/Subcomponent Summary:**  
**Compressor:** Daikin (092A, 106A); **Evaporator:** Daikin (E4216); **Condenser:** Daikin (C4216);  
**Motor:** Daikin (M7-092Y, M9-106X); **VFD Starter:** PSI (FRN0520E2S-4UDA-220C, FRN220VG1S-4UDA-220C)  
**Operator Interface:** Tru-Vu (Part 331670401); **Controller:** PSI (Part 331346712);

**UUT Properties**

Weight (lb.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
48,490	252.0	116.0	110.0	5.97	5.57	16.47

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.67	0.67
		2.5	0.0					

**Test Mounting Details:** (Test Report: 1700688-TR-001-R1)(UUT4)



UUT4 was base mounted - rigid to the table using eight (8) 1" SAE Grade 8 bolts, washers and a 3/8" ribbed neoprene pad under each mounting foot. The fixture was mounted to the table using thirty-six (36) 1-1/4" SAE Grade 8 bolts and washers. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET



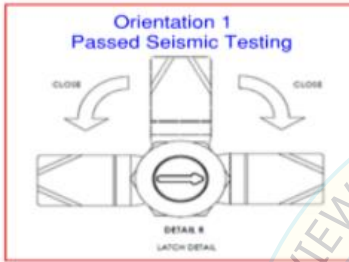
1700688-CR-001-R2

**UUT 4**

**Manufacturer:** Daikin Applied  
**Model Line:** Magnitude Magnetic Bearing Centrifugal Chillers  
**Model Number:** WME099BD/E4216-YE2CR2V/C4216-JB2CR2V **Serial Number:** N/A

**Seismic Modifications:**

A door closure mechanism were added to the electrical cabinets. Please see the Daikin Seismic Drawings below for more details. (Part 910268269)



The electrical cabinets were braced using three (3) 0.188" L-shaped carbon steel braces. The cabinets were restrained to each other using 0.188" carbon steel plate fastened using four (4) existing eye hooks. Please see the Daikin Seismic Drawings (RH Bracket - Drawings 1 & 6-11 and LH Bracket - Drawings 3 & 11) for more details including material and dimensions. (Part 910268269)



The large electrical cabinet was stiffened using a 1-5/8" x 87" 12ga galvanized carbon steel Unistrut fasten with six (6) pre-existing bolts. Please see the Daikin Seismic Drawings 4 & 12 for more details including material and dimensions. (Part 910268269)



# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700688-CR-001-R2

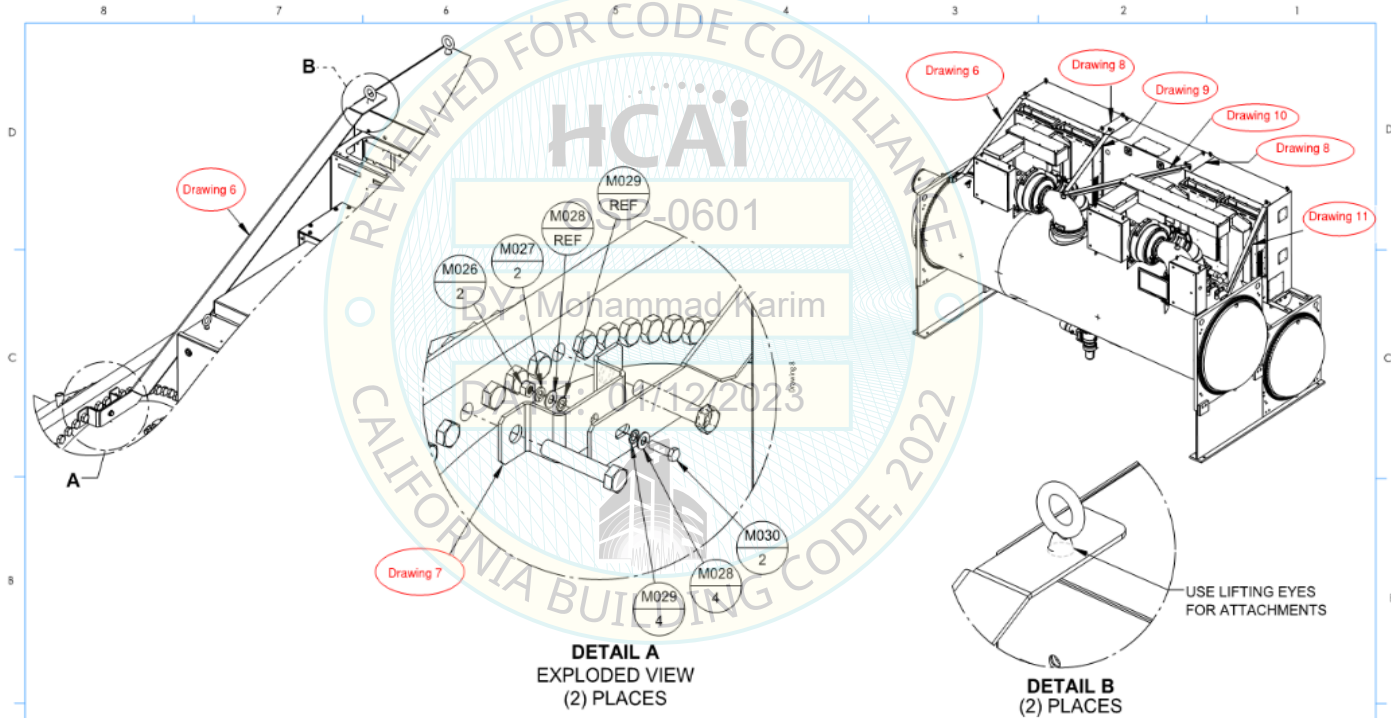


**Manufacturer:** Daikin Applied  
**Model Line:** Magnitude Magnetic Bearing Centrifugal Chillers  
**Model Number:** WME099BD/E4216-YE2CR2V/C4216-JB2CR2V

**Serial Number:** N/A

**UUT 4**

## Modification Drawing Key and RH Bracket - Drawing 1



**DETAIL A**  
EXPLODED VIEW  
(2) PLACES

**DETAIL B**  
(2) PLACES

PRODUCT		ENGINEERING		KPC		FIT		FORM		FUNCTION		SAFETY		DRN		DATE		ECO NUMBER		CL =	
KCC		ME & QE		KCC		KCC		KCC		KCC		KCC		2/14/2019		C000856514					
KCC		ME & QE		KCC		KCC		KCC		KCC		KCC		2/14/2019		C000856514					
<p><b>DEFAULT TOLERANCES</b></p> <p>TOLERANCES ONLY APPLY TO FINISHED VIEW DIMENSIONS ONLY</p> <p>X.X = ±0.1 X.XX = ±0.03 COPPER TUBING</p> <p>ANGLE = ±2° X.XXX = ±0.005 ANGLE = ±3° X.XX = ±0.06</p> <p>HOLES Up to 0.500 = ±0.004 or Over 0.500 = ±0.007</p> <p>FINISH: 125 MICRINCH ON MACHINED SURFACES</p>																					
<p>SCALE: NONE UNITS: INCHES</p>												<p>RAW MAT</p>		<p><b>DAIKIN</b></p> <p>THIRD ANGLE PROJECTION</p>							
<p>DESCRIPTION: INSTR.ASSY,SEISMIC BRACKETS,WME106E48C42,S6</p>																					
Sheet		PART NUMBER		SIZE		REVISION		1 of 3		910259213		B		00							

Materials and Dimensions referenced in Drawings 6-11

TRU Compliance, by Structural Integrity Associates, Inc.

844-TRU-0200 | info@trucompliance.com

# UNIT UNDER TEST (UUT) SUMMARY SHEET

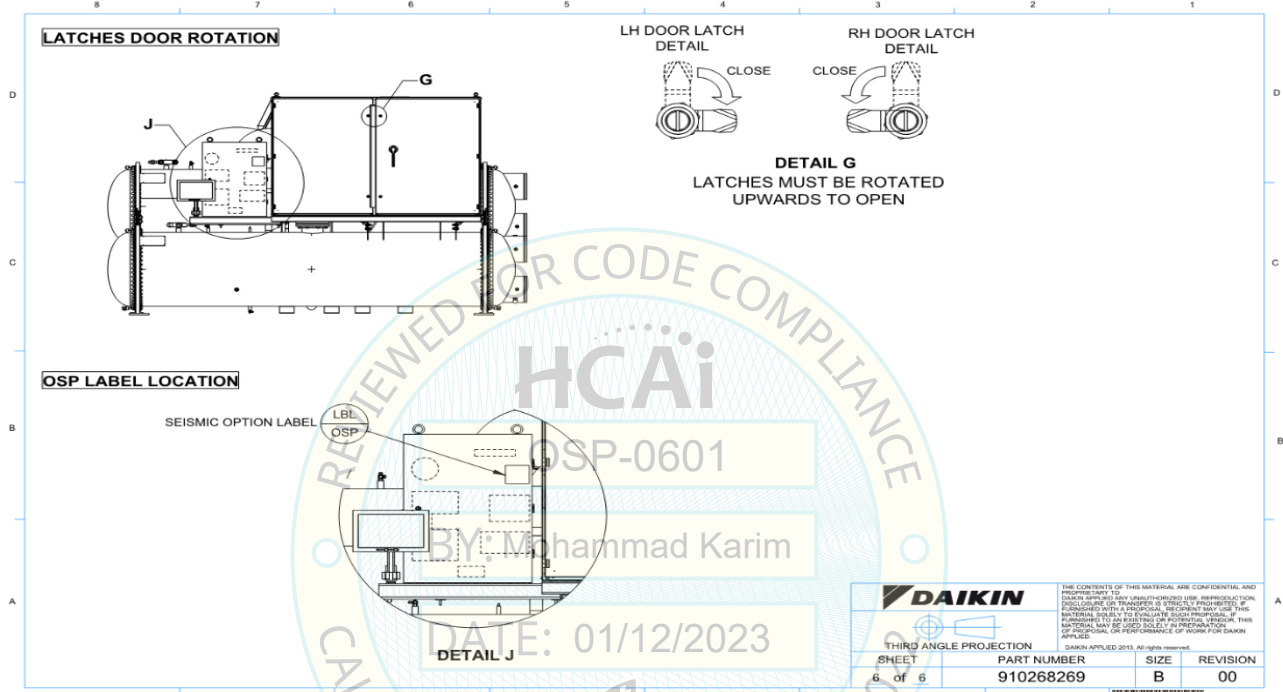
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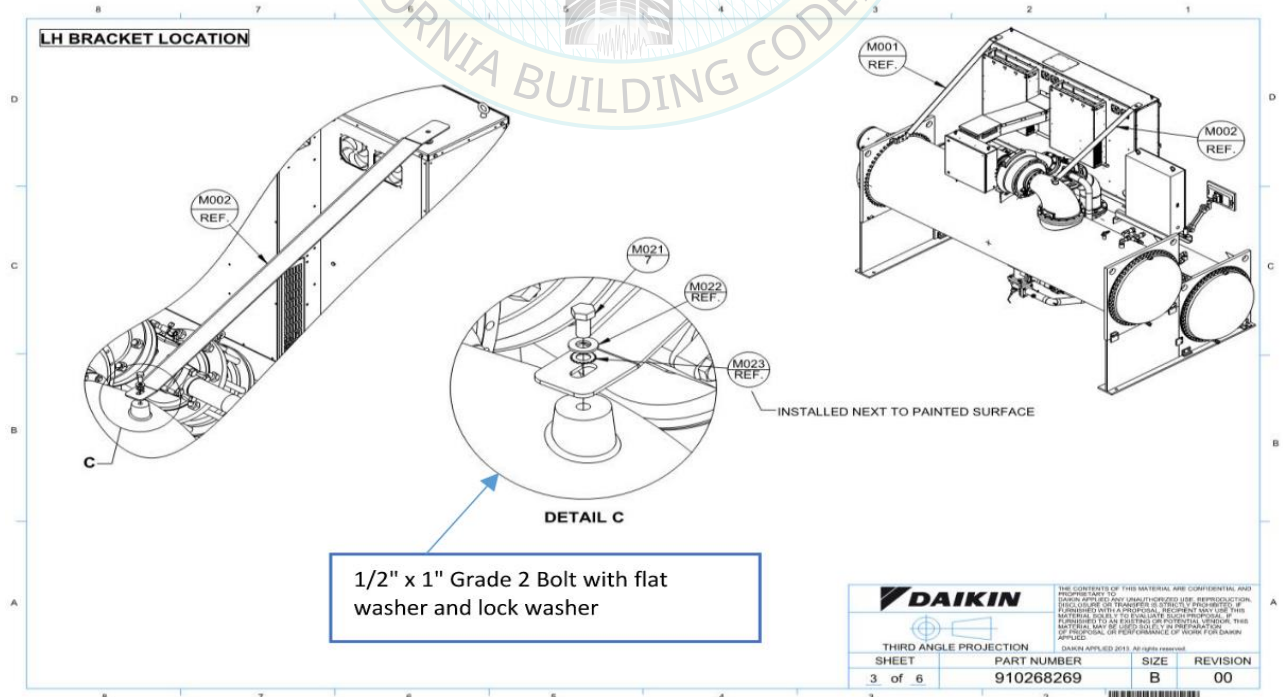
**Manufacturer:** Daikin Applied  
**Model Line:** Magnitude Magnetic Bearing Centrifugal Chillers  
**Model Number:** WME099BD/E4216-YE2CR2V/C4216-JB2CR2V **Serial Number:** N/A

**UUT 4**

## Latches - Drawing 2



## LH Bracket - Drawing 3



# UNIT UNDER TEST (UUT) SUMMARY SHEET

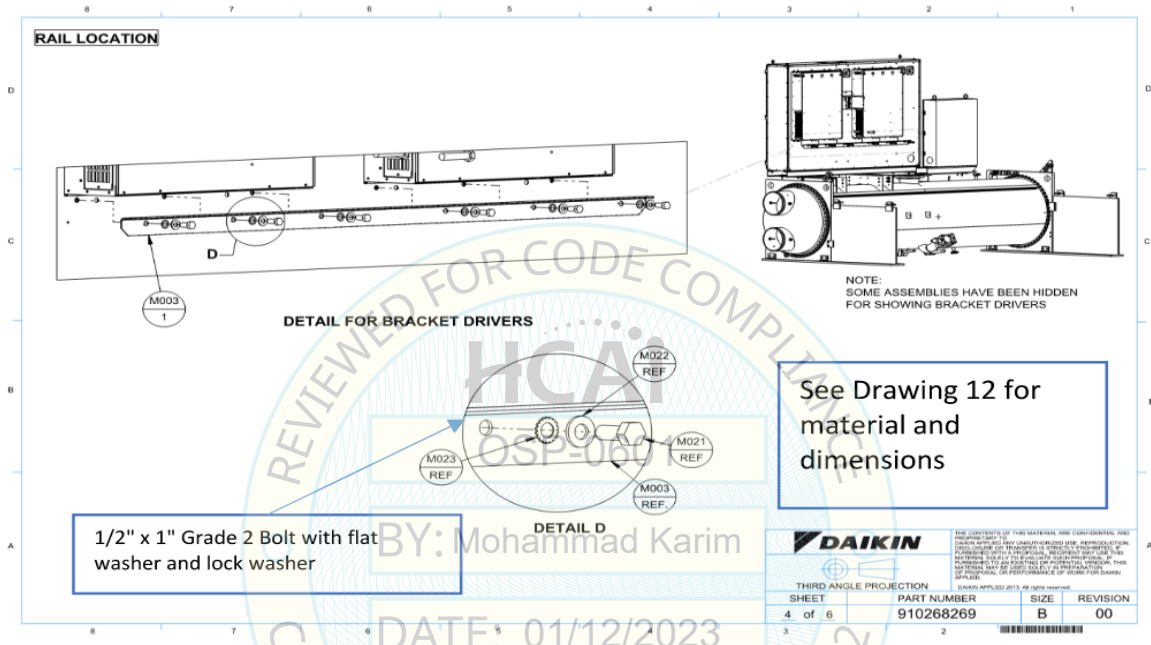
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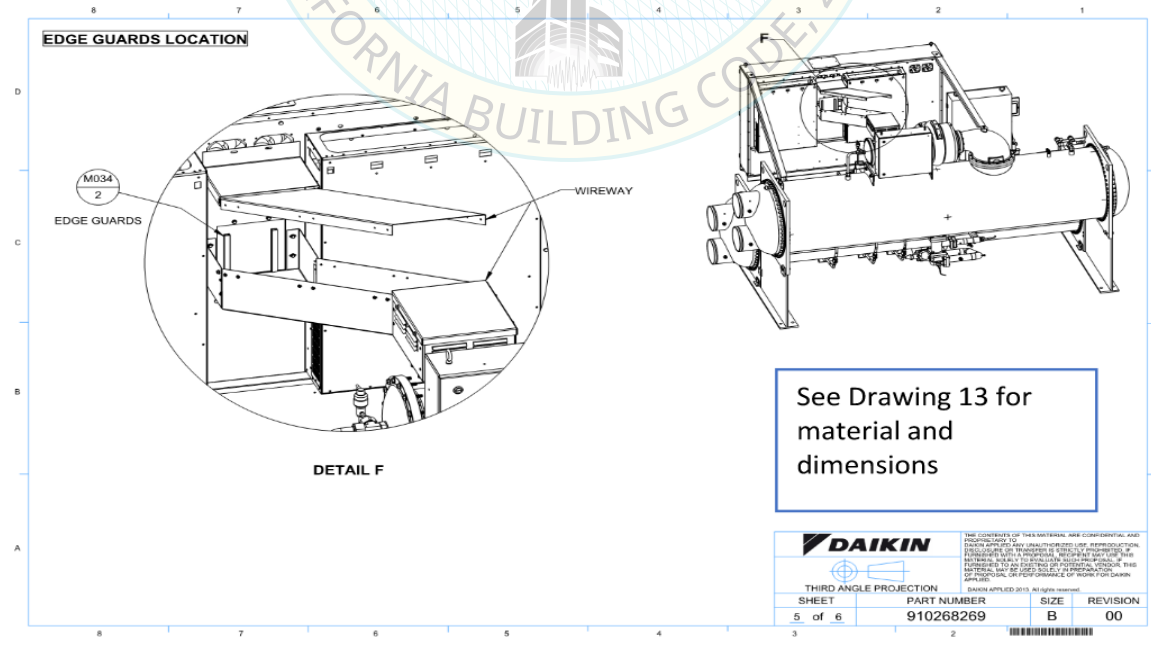
**Manufacturer:** Daikin Applied  
**Model Line:** Magnitude Magnetic Bearing Centrifugal Chillers  
**Model Number:** WME099BD/E4216-YE2CR2V/C4216-JB2CR2V **Serial Number:** N/A

**UUT 4**

## RAIL - Drawing 4



## Edge Guard - Drawing 5



Materials and Dimensions referenced in Drawing 13

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

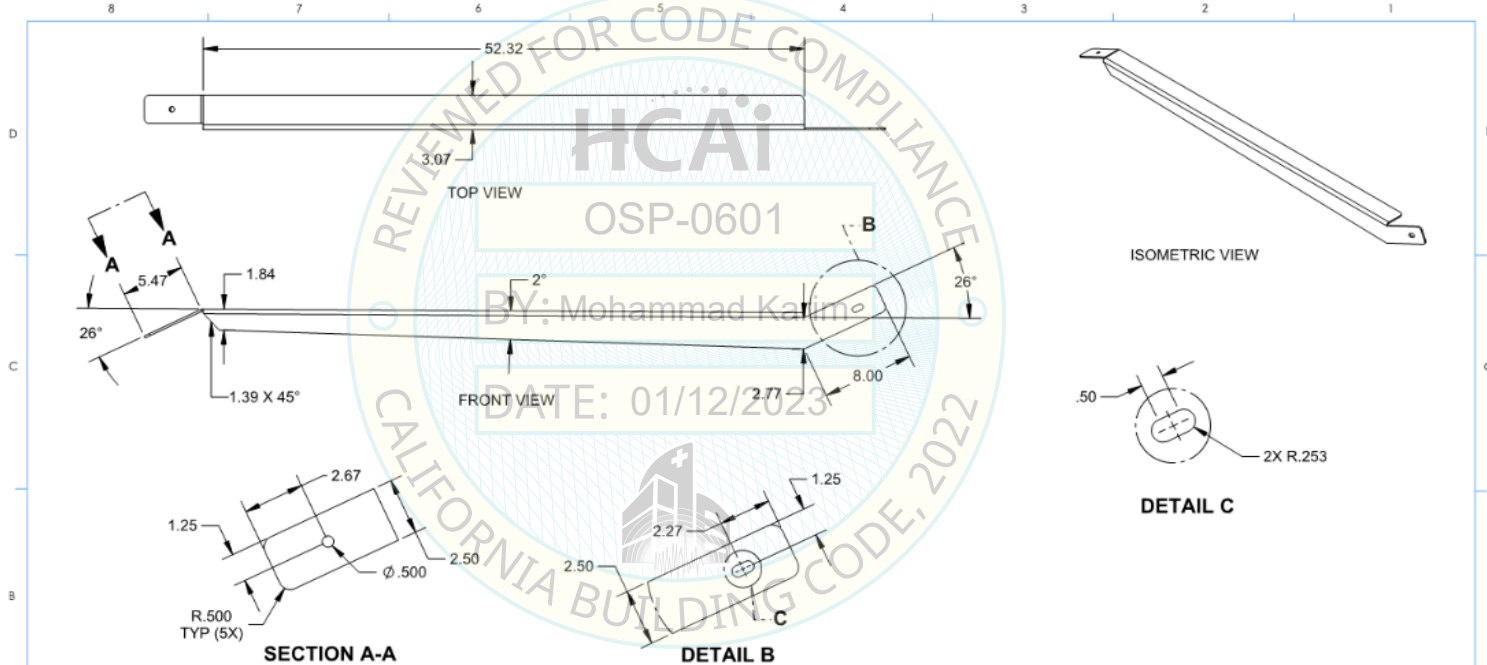
1700688-CR-001-R2



**UUT 4**

**Manufacturer:** Daikin Applied  
**Model Line:** Magnitude Magnetic Bearing Centrifugal Chillers  
**Model Number:** WME099BD/E4216-YE2CR2V/C4216-JB2CR2V  
**Serial Number:** N/A

**RH Bracket Part 1 Material and Dimensions - Drawing 6**



- NOTES:**  
 1. WEIGHT = 20.269 LBS.  
 2. INSIDE BEND RADIUS = .23 PER 071716101.  
 3. THIS PART HAS A DXF FILE.  
 4. PAINT PER DAIKIN SPEC. 330286901 COLOR: DAIKIN SAND DOLLAR BEIGE.

PRODUCT			ENGINEERING	KPC	FORM	FUNCTION	SAFETY	PART RELEASE APPROVALS		<p>THE CONTENTS OF THIS MATERIAL ARE CONFIDENTIAL AND PROPRIETARY TO DAIKIN APPLIED. ANY UNAUTHORIZED USE, REPRODUCTION, DISSEMINATION OR TRANSMISSION IS STRICTLY PROHIBITED. IF FURNISHED WITH A PROPOSAL, RECIPIENT MAY USE THIS MATERIAL SOLELY TO EVALUATE EACH PROPOSAL. IF FURNISHED TO AN EXISTING OR POTENTIAL VENDOR, THIS MATERIAL MAY BE USED SOLELY IN PREPARATION OF PROPOSAL OR PERFORMANCE OF WORK FOR DAIKIN APPLIED.</p> <p>DAIKIN APPLIED 2013. All rights reserved.</p>			
PROCESS			ME & QE	KCC				DRN	DATE		ECO NUMBER	CL = 64.93 x 5.89	
								REVISION CHANGE DESCRIPTION			<p>THIRD ANGLE PROJECTION</p>		
							INITIAL RELEASE			<p>DESCRIPTION: BRACKET, SEISMIC, VFD, WME, E48C42106, S6</p>			
			<p><b>DEFAULT TOLERANCES</b></p> <p>TOLERANCES ONLY APPLY TO FINISHED VIEW DIMENSIONS ONLY</p> <p>X.X= ±0.1 X.XX= ±0.03 COPPER TUBING</p> <p>ANGLE ±2° X.XXX= ±0.005 ANGLE ±3° X.XX= ±0.06</p> <p>HOLES Up to 0.500= ±0.004 or Over 0.500= ±0.007</p> <p>FINISH: 125 MICROINCH ON MACHINED SURFACES</p>				SCALE	UNITS	RAIN MAT		Sheet	PART NUMBER	SIZE
							NONE	INCHES		1 of 2	910258889	B	00

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700688-CR-001-R2

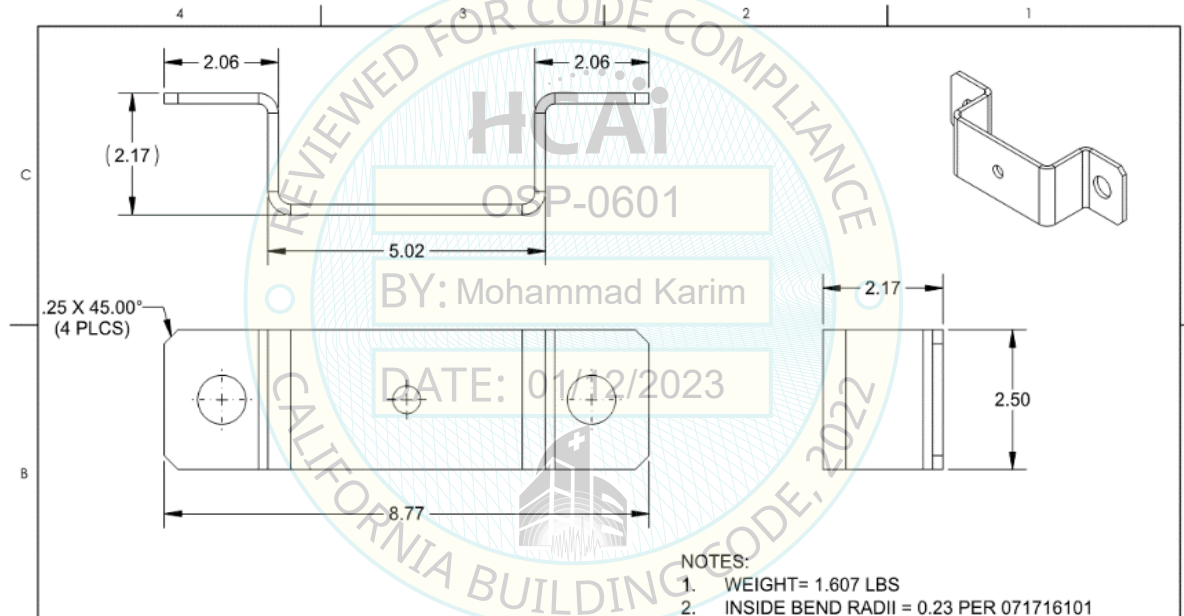


**Manufacturer:** Daikin Applied  
**Model Line:** Magnitude Magnetic Bearing Centrifugal Chillers  
**Model Number:** WME099BD/E4216-YE2CR2V/C4216-JB2CR2V

**Serial Number:** N/A

**UUT 4**

**RH Bracket Part 1 Material and Dimensions - Drawing 7**



- NOTES:**
1. WEIGHT= 1.607 LBS
  2. INSIDE BEND RADII = 0.23 PER 071716101
  3. DXF FILE AVAILABLE FOR MANUFACTURING USE
  4. PAINT PER DAIKIN SPEC. 330286901  
COLOR: DAIKIN SAND DOLLAR BEIGE

PRODUCT	ENGINEERING	KPC	FIT	FORM	FUNCTION	SAFETY
PROCESS	ME & QE	KCC				

PART RELEASE APPROVALS			
DRN	DATE	ECO NUMBER	CL = 12.13 x 2.5
SFJ	10/31/2017	C000679993	

REVISION CHANGE DESCRIPTION	
A	00 - INITIAL RELEASE

DEFAULT TOLERANCES			
TOLERANCES ONLY APPLY TO FINISHED VIEW DIMENSIONS ONLY			
X.X= ±0.1	X.XX= ±0.03	COPPER TUBING	
ANGLE=±2°	X.XXX= ±0.005	ANGLE ±3°	X.XX = ±0.06

HOLES	Up to 0.500= ±0.004 or Over 0.500= ±0.007	
SCALE	UNITS	RAW MAT
NONE	INCHES	.188 A.R. STL SA-36-STN



THIRD ANGLE PROJECTION

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**DESCRIPTION:** BRACKET, SEISMIC, VFD, WME

SHEET	PART NUMBER	SIZE	REVISION
1 of 2	910223635	A	00



# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700688-CR-001-R2

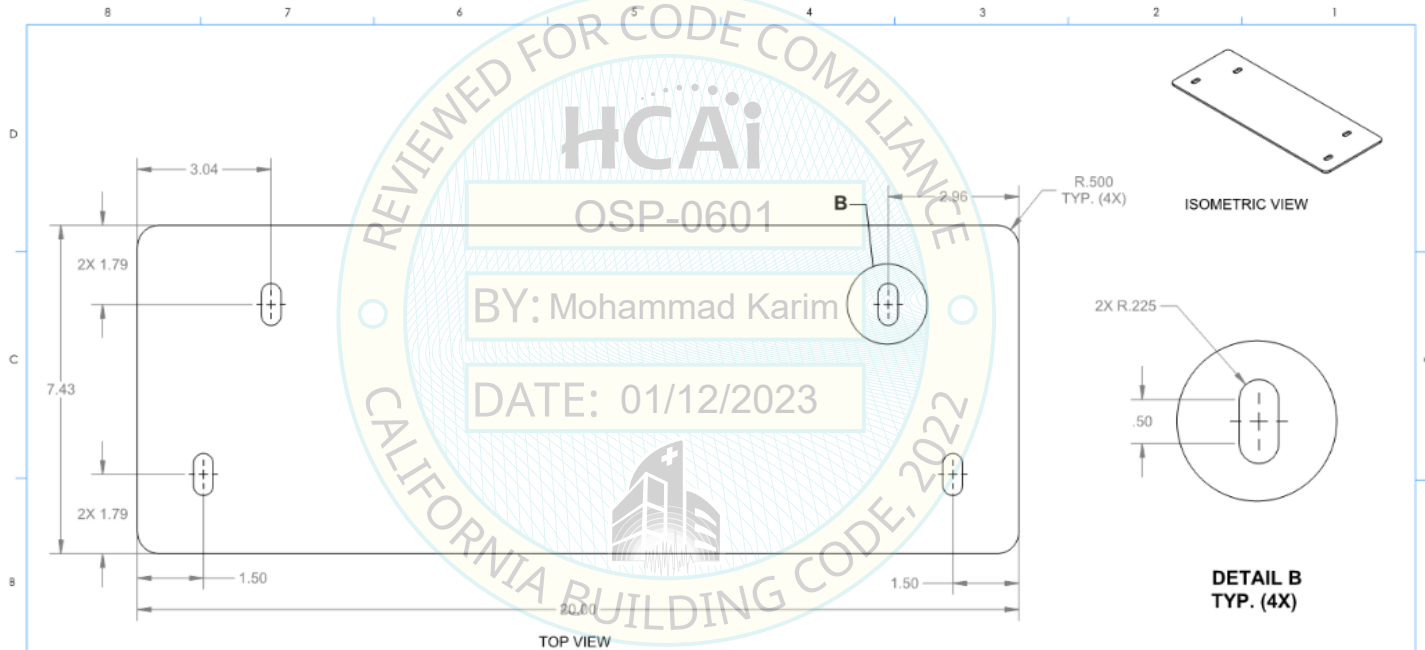


**Manufacturer:** Daikin Applied  
**Model Line:** Magnitude Magnetic Bearing Centrifugal Chillers  
**Model Number:** WME099BD/E4216-YE2CR2V/C4216-JB2CR2V

**Serial Number:** N/A

**UUT 4**

**RH Bracket Material and Dimensions - Drawing 8**



- NOTES:**
1. WEIGHT = 7.875 LBS.
  2. INSIDE BEND RADIUS = .23 PER 071716101.
  3. THIS PART HAS A DXF FILE.

FIT				FORM				FUNCTION				SAFETY				PART RELEASE APPROVALS			
PRODUCT	ENGINEERING	KPC														DRN	DATE	ECO NUMBER	CL = 20 x 7.43
A	PROCESS	ME & QE	KCC													ESG	02/14/2019	C000856514	
INITIAL RELEASE																REVISION CHANGE DESCRIPTION			
<b>DEFAULT TOLERANCES</b> TOLERANCES ONLY APPLY TO FINISHED VIEW DIMENSIONS ONLY X.X = ±0.1 X.XX = ±0.03 COPPER TUBING ANGLE = ±2° X.XXX = ±0.005 ANGLE ±3° X.XX = ±0.06 HOLES Up to 0.500" ±0.004 or Over 0.500" ±0.007 FINISH: 125 MICRONCH ON MACHINED SURFACES																			
SCALE NONE UNITS INCHES RAW MAT .188 A.R. STL SA-36-STN																			
<b>DAIKIN</b> THE CONTENTS OF THIS MATERIAL ARE CONFIDENTIAL AND PROPRIETARY TO DAIKIN APPLIED ANY UNAUTHORIZED USE, REPRODUCTION, USE, COPIING, OR TRANSFER IS STRICTLY PROHIBITED. IF FURNISHED WITH A PROPOSAL, RECIPIENT MAY USE THE MATERIAL SOLELY TO EVALUATE SUCH PROPOSAL. IF FURNISHED TO AN END USER OR POTENTIAL USER, THIS MATERIAL MAY BE USED SOLELY IN CONNECTION WITH THE PROPOSAL OR PERFORMANCE OF WORK FOR DAIKIN APPLIED. DAIKIN APPLIED 2013. All rights reserved.																			
<b>THIRD ANGLE PROJECTION</b> DESCRIPTION: BRACKET, FLAT, SEISMIC, WME, E48C42106, S6 Sheet 1 of 1 PART NUMBER 910258878 SIZE B REVISION 00																			

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700688-CR-001-R2

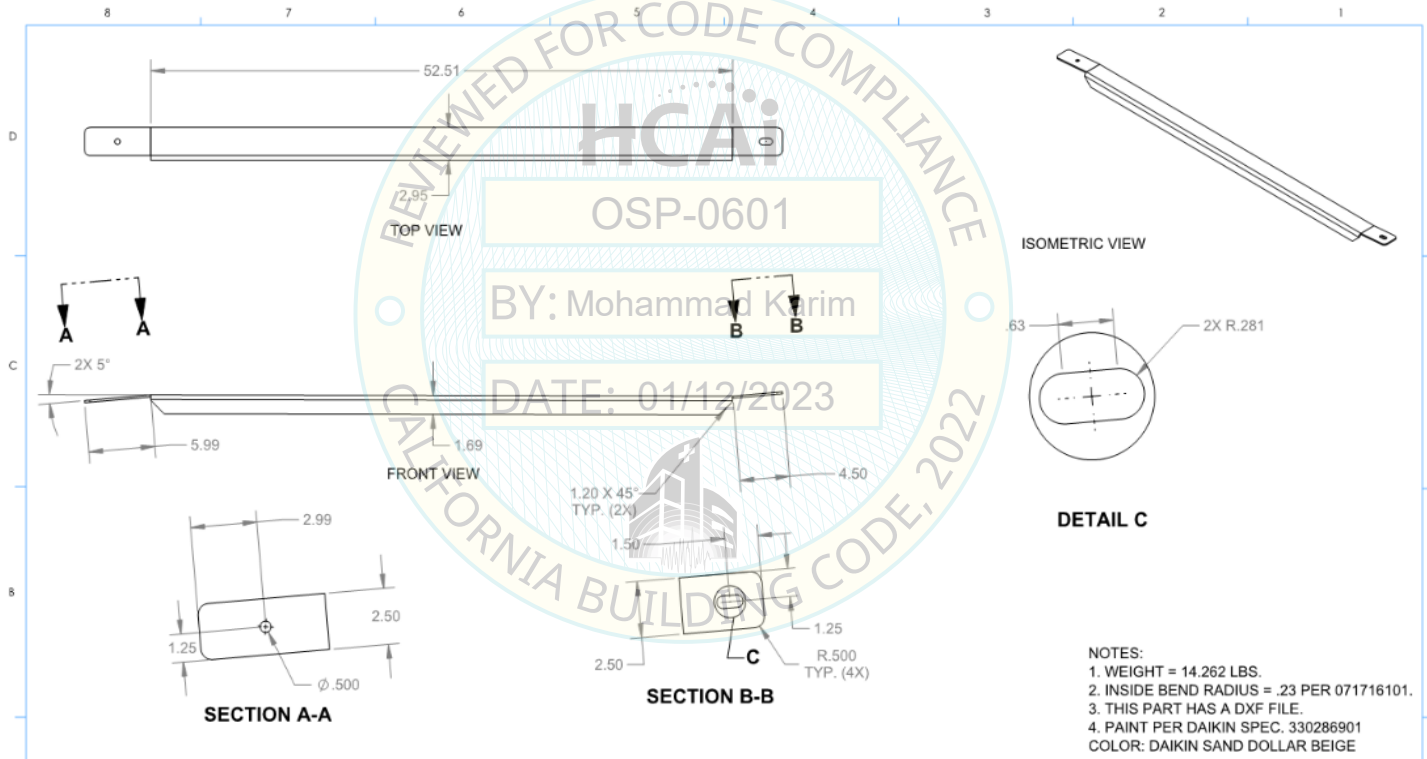


**Manufacturer:** Daikin Applied  
**Model Line:** Magnitude Magnetic Bearing Centrifugal Chillers  
**Model Number:** WME099BD/E4216-YE2CR2V/C4216-JB2CR2V

**Serial Number:** N/A

**UUT 4**

## Center Brace #1 Material and Dimensions - Drawing 9



PRODUCT		ENGINEERING	KPC	FIT	FORM	FUNCTION	SAFETY	PART RELEASE APPROVALS				 <small>THE CONTENTS OF THIS MATERIAL ARE CONFIDENTIAL AND PROPRIETARY TO DAIKIN APPLIED. ANY UNAUTHORIZED USE, REPRODUCTION, DISCLOSURE, OR TRANSFER IS STRICTLY PROHIBITED. IF FURNISHED WITH A PROPOSAL, RECIPIENT MAY USE THIS MATERIAL SOLELY TO EVALUATE SUCH PROPOSAL. IF FURNISHED TO AN EXISTING OR POTENTIAL VENDOR, THIS MATERIAL MAY BE USED SOLELY IN CONNECTION WITH THAT PROPOSAL OR PERFORMANCE OF WORK FOR DAIKIN APPLIED.</small>		
DRN	ESG	DATE	ECO NUMBER	CL	REVISION CHANGE DESCRIPTION INITIAL RELEASE				CL = 63.02 x 4.27 C000856514					
<b>DEFAULT TOLERANCES</b> TOLERANCES ONLY APPLY TO FINISHED VIEW DIMENSIONS ONLY X.X = ±0.1    X.XX = ±0.03    COPPER TUBING ANGLE = ±2°    X.XXX = ±0.005    ANGLE = ±3°    X.XX = ±0.06 HOLES: Up to 0.500" = ±0.004 or Over 0.500" = ±0.007 FINISH: 125 MICRORINCH ON MACHINED SURFACES								SCALE: NONE LIMITS: INCHES		RAW MAT 188 A.R. STL SA-36-STN		SHEET: 1 of 2 PART NUMBER: 910258902 SIZE: B REVISION: 00		DESCRIPTION: BRACKET, SEISMIC, VFD, WME, E48C42106, S6

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700688-CR-001-R2

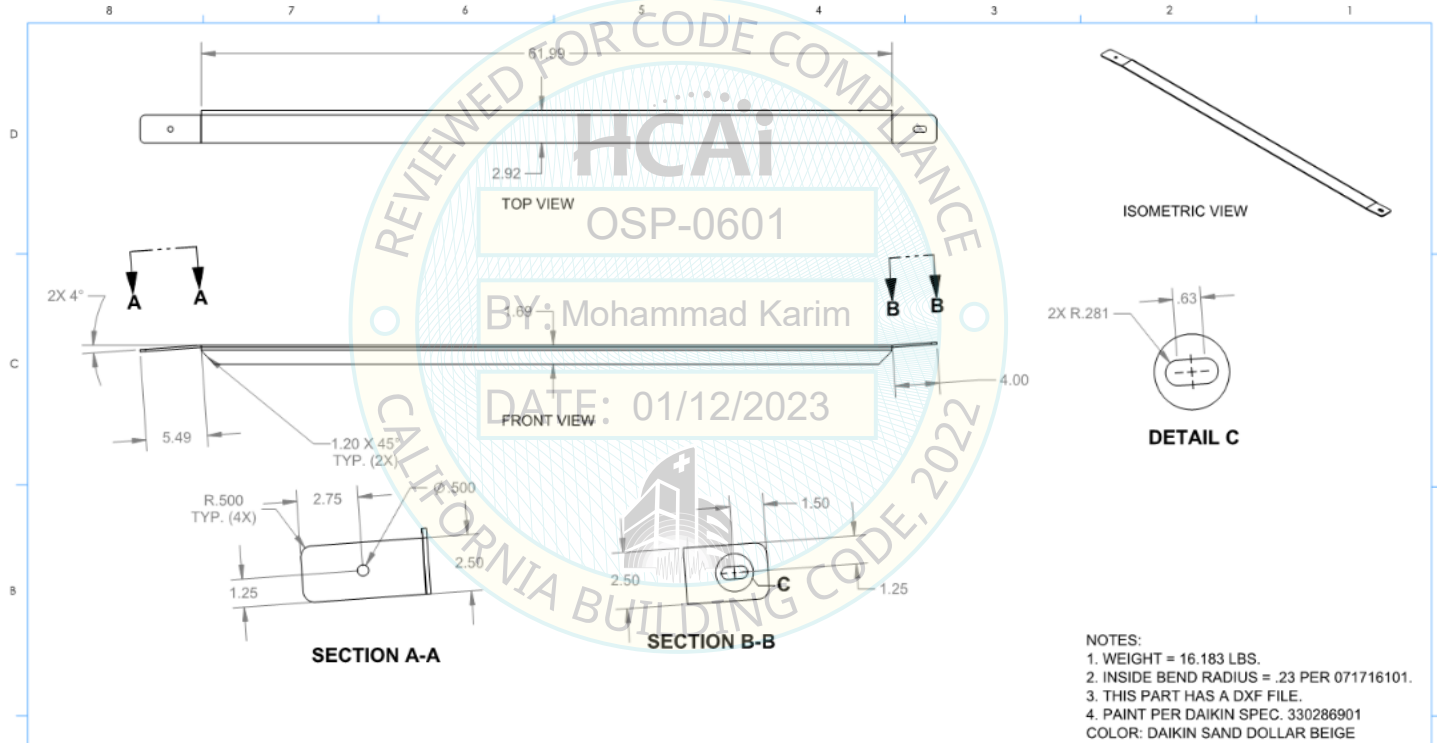


**Manufacturer:** Daikin Applied  
**Model Line:** Magnitude Magnetic Bearing Centrifugal Chillers  
**Model Number:** WME099BD/E4216-YE2CR2V/C4216-JB2CR2V

**Serial Number:** N/A

**UUT 4**

**Center Brace #2 Material and Dimensions - Drawing 10**



FIT FORM FUNCTION SAFETY			PART RELEASE APPROVALS				
PRODUCT	ENGINEERING	KPC	◇	DRN	DATE	ECO NUMBER	CL = 71.51 x 4.27
				ESG	02/15/2019	C000856514	
PROCESS	ME & QE	KCC	△	REVISION CHANGE DESCRIPTION			
DEFAULT TOLERANCES			INITIAL RELEASE				
TOLERANCES ONLY APPLY TO FINISHED VIEW DIMENSIONS ONLY							
COPPER TUBING							
X.X" = ±0.1	X.XX" = ±0.03	ANGLE ±3°		X.XX = ±0.06			
HOLES: Up to 0.500" = ±0.004 or Over 0.500" = ±0.007		SCALE: NONE UNITS: INCHES					
FINISH: 125 MICROINCH ON MACHINED SURFACES							
				RAW MAT		.88 AR. STL SA-36-STN	

DAIKIN		THIRD ANGLE PROJECTION	
DESCRIPTION: BRACKET, SEISMIC, VFD, WME, E48C42106, S6			
Sheet	PART NUMBER	SIZE	REVISION
1 of 2	910259001	B	00

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700688-CR-001-R2

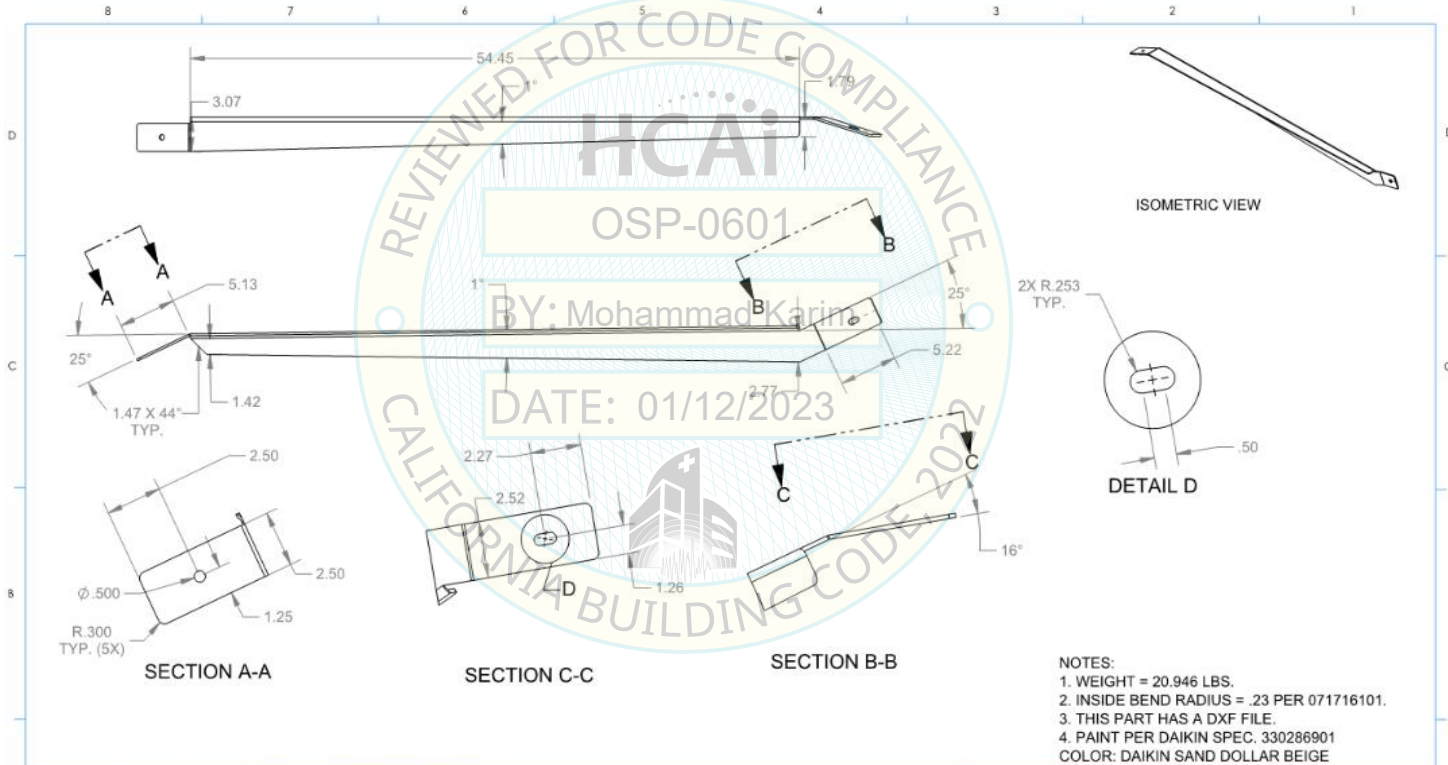


**UUT 4**

**Manufacturer:** Daikin Applied  
**Model Line:** Magnitude Magnetic Bearing Centrifugal Chillers  
**Model Number:** WME099BD/E4216-YE2CR2V/C4216-JB2CR2V

**Serial Number:** N/A

**LH Bracket Material and Dimensions - Drawing 11**



- NOTES:**
1. WEIGHT = 20.946 LBS.
  2. INSIDE BEND RADIUS = .23 PER 071716101.
  3. THIS PART HAS A DXF FILE.
  4. PAINT PER DAIKIN SPEC. 330286901
- COLOR: DAIKIN SAND DOLLAR BEIGE

PRODUCT		ENGINEERING	KPC	FIT	FORM	FUNCTION	SAFETY	DRN	DATE	PART RELEASE APPROVALS	
PROCESS		ME & QE	KCC					ESG	02/19/2019	ECO NUMBER	CL = 67.1 x 5.89
										C000856514	
										REVISION CHANGE DESCRIPTION	
										INITIAL RELEASE	
<p><b>DEFAULT TOLERANCES</b></p> <p>TOLERANCES ONLY APPLY TO FINISHED VIEW DIMENSIONS ONLY</p> <p>X.X = ±0.1    X.XX = ±0.03    COPPER TUBING</p> <p>ANGLE = ±2°    X.XXX = ±0.005    ANGLE ±3°    X.XX = ±0.06</p> <p>HOLES: Up to 0.500 = ±0.004 or Over 0.500 = ±0.007</p> <p>FINISH: 125 MICRINCH ON MACHINED SURFACES</p>											
								SCALE	UNITS	RAW MAT	
								NONE	INCHES	188 A.R. STL SA-36-STN	
										Sheet	REVISION
										1 of 2	00
										PART NUMBER	SIZE
										910259015	B

**DAIKIN**

THIRD ANGLE PROJECTION

DESCRIPTION: BRACKET, SEISMIC, VFD, WME, E48C42105, S6

Sheet 1 of 2    PART NUMBER 910259015    SIZE B    REVISION 00

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700688-CR-001-R2

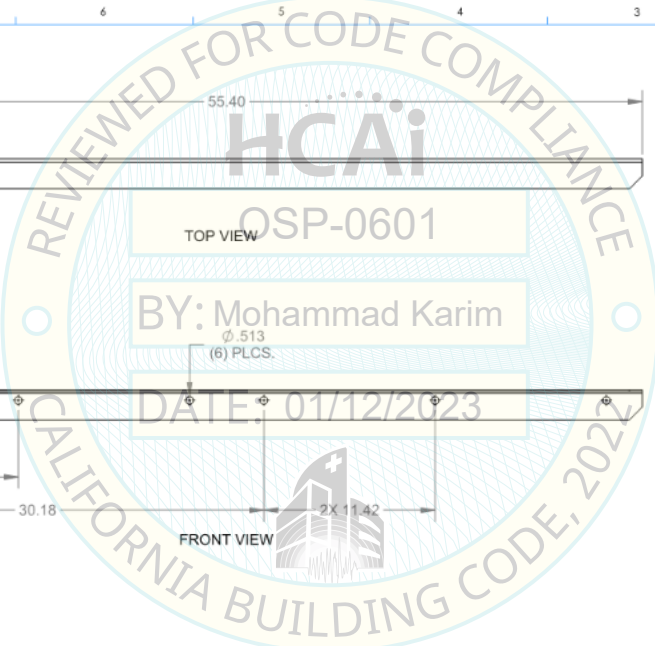
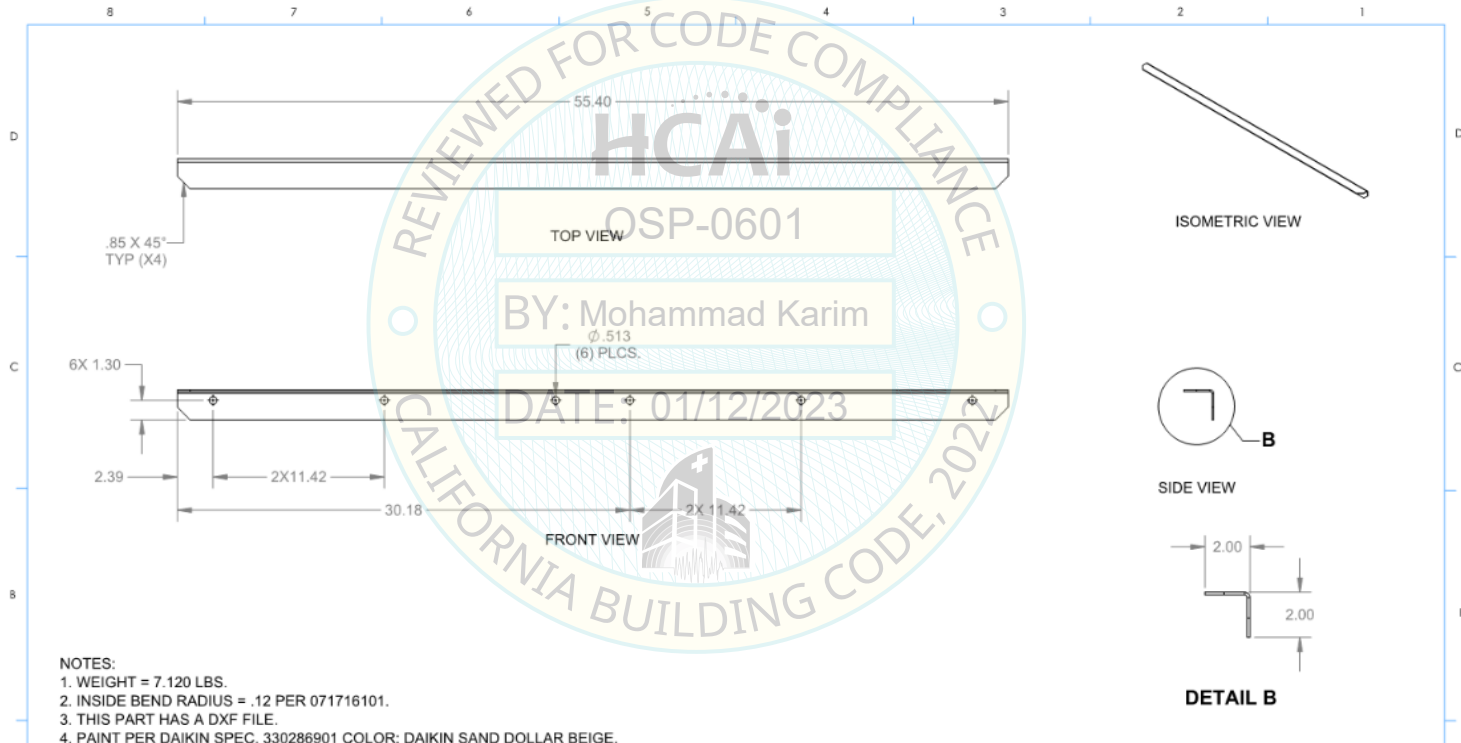


**Manufacturer:** Daikin Applied  
**Model Line:** Magnitude Magnetic Bearing Centrifugal Chillers  
**Model Number:** WME099BD/E4216-YE2CR2V/C4216-JB2CR2V

**Serial Number:** N/A

**UUT 4**

**Rail Material and Dimensions - Drawing 12**



OSP-0601  
 BY: Mohammad Karim  
 DATE: 01/12/2023

PRODUCT	ENGINEERING	KPC	FIT	FORM	FUNCTION	SAFETY	DRN	DATE	PART RELEASE APPROVALS	<p>THE CONTENTS OF THIS MATERIAL ARE CONFIDENTIAL AND PROPRIETARY TO DAIKIN APPLIED. ANY UNAUTHORIZED REPRODUCTION, DISCLOSURE OR TRANSFER IS STRICTLY PROHIBITED. IF FURNISHED TO AN EXISTING OR POTENTIAL VENDOR, THIS MATERIAL MAY BE USED SOLELY IN PREPARATION OF PROPOSAL OR PERFORMANCE OF WORK FOR DAIKIN APPLIED.</p>	
PROCESS	ME & QE	KCC					ESG	02/14/2019	ECO NUMBER C000856514 CL = 55.4 x 3.78		
<b>DEFAULT TOLERANCES</b> TOLERANCES ONLY APPLY TO FINISHED VIEW DIMENSIONS ONLY X.X= ±0.1 X.XX= ±0.03 COPPER TUBING ANGLE = ±2° X.XXX= ±0.005 ANGLE ±3° X.XX = ±0.06 HOLES: Up to 0.500= ±0.004 or Over 0.500= ±0.007 FINISH: 125 MICRORINCH ON MACHINED SURFACES							INITIAL RELEASE		THIRD ANGLE PROJECTION		
							SCALE	UNITS	RAW MAT	DESCRIPTION: BRACKET,ANGLE,SEISMIC,WME,E48C42106,S6	
							NONE	INCHES	120 HR. STL SA38	Sheet 1 of 2	
									PART NUMBER	SIZE	REVISION
									910263845	B	00

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700688-CR-001-R2



**Manufacturer:** Daikin Applied  
**Model Line:** Magnitude Magnetic Bearing Centrifugal Chillers  
**Model Number:** WME099BD/E4216-YE2CR2V/C4216-JB2CR2V

**UUT 4**

**Serial Number:** N/A

### Rail Material and Dimensions - Drawing 13

Edge guard length will vary depending on WME. Installer will cut to insure the length of edge guard to protect wires from being frayed.

HEAVY DUTY PLASTIC U-CHANNEL PUSH-ON TRIM							
SUPPLIER	PART NUMBER	MATERIAL	CORE MATERIAL	COLOR	INSIDE	OUTSIDE	
McMASTER	8451A13	VINYL PLASTIC	METAL	BLACK	WIDTH (A) - 9/64" - 1/4" HEIGHT (B) - 37/64"	WIDTH (C) - 1/2"	HEIGHT (D) - 21/32"

OSP-0601

BY: Mohammad Karim

DATE: 01/12/2023

PRODUCT	ENGINEERING	KPC	FIT	FORM	FUNCTION	SAFETY
PROCESS	ME & QE	KCC				

PART RELEASE APPROVALS			
DRN	DATE	ECO NUMBER	CL =
GPS	3/12/2019	C000881338	

REVISION CHANGE DESCRIPTION			
INITIAL RELEASE			

DEFAULT TOLERANCES			
TOLERANCES ONLY APPLY TO FINISHED VIEW DIMENSIONS ONLY			
X.X= ±0.1	X.XX= ±0.03	COPPER TUBING	
ANGLE=±2°	X.XXX= ±0.005	ANGLE ±3°	X.XX = ±0.06
HOLES Up to 0.500= ±0.004 or Over 0.500= ±0.007			
SCALE	UNITS	RAW MAT	
NONE	INCHES		

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THIRD ANGLE PROJECTION		DAIKIN APPLIED 2013. All rights reserved.	

DESCRIPTION: HEAVY DUTY PLASTIC,U-CHANNEL,9/64"-1/4" WIDE			
SHEET	PART NUMBER	SIZE	REVISION
1 of 1	910266614	A	00