



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OSP – 0533 – 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: Carrier Corporation

Manufacturer's Technical Representative: Brian Monk

Mailing Address: 629 McCaffrey, Montreal, Quebec, Canada H4T 1N3

Telephone: 514.906.4623

Email: brian.monk@carrier.utc.com

Product Information

Product Name: Carrier Custom 39CC

Product Type: Custom Air Conditioning Units

Product Model Number: Varies. See Attachment.

(List all unique product identification numbers and/or part numbers)

General Description: Custom Air Conditioning Units.

Mounting Description: Rigid Base Mounted

Applicant Information

Applicant Company Name: Structural Integrity Associates, Inc.

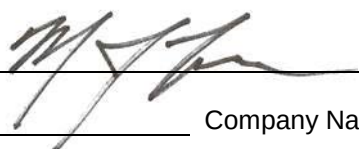
Contact Person: Matthew J. Tobolski, PhD, SE

Mailing Address: 5215 Hellyer Avenue, Suite 210, San Jose, CA 95138

Telephone: 541.205.4064

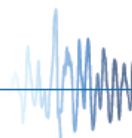
Email: mtobolski@structint.com

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: 7/10/2017

Title: Executive Advisor Company Name: Structural Integrity Associates, 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**

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

Company Name: Structural Integrity Associates, Inc.
Name: Matthew J. Tobolski, PhD, SE California License Number: S5648
Mailing Address: 5215 Hellyer Avenue, Suite 210, San Jose, CA 95138
Telephone: 541.205.4064 Email: mtobolski@structint.com

Supports and Attachments Preapproval

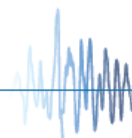
- ☐ Supports and attachments are preapproved under OPM-
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
- ☒ Supports and attachments are not preapproved

Certification Method

- ☒ Testing in accordance with: ☒ ICC-ES AC156
- ☐ Other (Please Specify): _____

Testing Laboratory

Company Name: Pacific Earthquake Engineering Research Center (PEER)
Contact Name: Nathaniel Knight
Mailing Address: 1301 South 46th St., Bldg. 420, Richmond, CA 94804
Telephone: 510.665.2135 Email: nathaniel_knight@berkeley.edu





OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components (F_p/W_p) = 1.5 ($S_{DS} = 2.0g$); 1.44 ($S_{DS} = 3.2g$)

S_{DS} (Design spectral response acceleration at short period, g) = 2.0 ($z/h = 1.0$); 3.2 ($z/h = 0.0$)

a_p (In-structure equipment or component amplification factor) = 2.5

R_p (Equipment or component response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0 ($S_{DS} = 2.0g$); 0.0 ($S_{DS} = 3.2g$)

Equipment or Component Natural Frequencies (Hz) = See Attachment

Overall dimensions and weight (or range thereof) = See Attachment

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: ☐ Yes ☒ No

Design Basis of Equipment or Components (V/W) = _____

S_{DS} (Design spectral response acceleration at short period, g) = _____

S_{D1} (Design spectral response acceleration at 1 second period, g) = _____

R (Response modification coefficient) = _____

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = _____

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = _____

Equipment or Component Natural Frequencies (Hz) = _____

Overall dimensions and weight (or range thereof) = _____

Tank(s) designed in accordance with ASME BPVC, 2015: ☐ Yes ☒ No

List of Attachments Supporting Special Seismic Certification

☒ Test Report(s) ☐ Drawings ☐ Calculations ☐ Manufacturer's Catalog

☒ Other(s) (Please Specify): Attachment A and product brochure

OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature: _____

Date: October 11, 2017

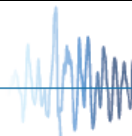
Print Name: Timothy J. Piland

Title: SSE

Special Seismic Certification Valid Up to : S_{DS} (g) = See Above

z/h = See Above

Condition of Approval (if applicable): _____



TRU PROJECT NO. 16022

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 16022



Manufacturer: Carrier		Table Description: Direct drive plenum Array						TABLE 2	
Model Line: 39CC									
Building Code: CBC 2016		Seismic Certification Limits: $S_{DS}= 2.0\text{ g}$ $z/h = 1.0$ $S_{DS}= 3.2\text{ g}$ $z/h = 0.0$						$I_P = 1.5$	
Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT	
		Depth	Width	Height					
MPQS 1x1 Array (Twin City Fans)	122 Class II	20.0	23.0	23.0	149	Al wheel, CS housing		Interp.	
	150 Class II	21.0	25.4	25.4	173	Al wheel, CS housing		Interp.	
	165 Class II	23.6	28.1	28.1	250	Al wheel, CS housing		Interp.	
	182 Class II	27.4	31.8	31.8	337	Al wheel, CS housing		Interp.	
	182 Class III	27.4	31.8	31.8	373	Al wheel, CS housing		Interp.	
	200 Class II	30.0	34.5	34.5	423	Al wheel, CS housing		Interp.	
	200 Class III	30.0	34.5	34.5	467	Al wheel, CS housing		Interp.	
	222 Class II	33.4	39.8	39.8	505	Al wheel, CS housing		Interp.	
	222 Class III	33.4	39.8	39.8	555	Al wheel, CS housing		Interp.	
	245 Class II	36.8	43.3	43.3	681	Al wheel, CS housing		Interp.	
	245 Class III	36.8	43.3	43.3	748	Al wheel, CS housing		Interp.	
	270 Class II	40.5	46.9	46.9	810	Al wheel, CS housing		Interp.	
	270 Class III	40.5	46.9	46.9	944	Al wheel, CS housing		Interp.	
	300 Class II	45.0	51.5	51.5	997	Al wheel, CS housing		Interp.	
MPQS 1x2 Array (Twin City Fans)	122 Class II	20.0	46.0	23.0	298	Al wheel, CS housing		Interp.	
	150 Class II	21.0	50.8	25.4	346	Al wheel, CS housing		Interp.	
	165 Class II	23.6	56.1	28.1	500	Al wheel, CS housing		Interp.	
	182 Class II	27.4	63.6	31.8	674	Al wheel, CS housing		Interp.	
	182 Class III	27.4	63.6	31.8	746	Al wheel, CS housing		Interp.	
	200 Class II	30.0	69.0	34.5	846	Al wheel, CS housing		Interp.	
	200 Class III	30.0	69.0	34.5	934	Al wheel, CS housing		Interp.	
	222 Class II	33.4	79.6	39.8	1010	Al wheel, CS housing		Interp.	
	222 Class III	33.4	79.6	39.8	1110	Al wheel, CS housing		Interp.	

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 16022



Manufacturer: Carrier		Table Description: Direct drive plenum Array						TABLE 2	
Model Line: 39CC									
Building Code: CBC 2016		Seismic Certification Limits:				$S_{DS}= 2.0 g \quad z/h = 1.0$ $S_{DS}= 3.2 g \quad z/h = 0.0$		$I_P = 1.5$	
Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT	
		Depth	Width	Height					
MPQS 1x3 Array (Twin City Fans)	122 Class II	20.0	69.0	23.0	447	Al wheel, CS housing		Interp.	
	150 Class II	21.0	76.1	25.4	519	Al wheel, CS housing		Interp.	
	165 Class II	23.6	84.2	28.1	750	Al wheel, CS housing		Interp.	
	182 Class II	27.4	95.4	31.8	1011	Al wheel, CS housing		Interp.	
	182 Class III	27.4	95.4	31.8	1119	Al wheel, CS housing		Interp.	
	200 Class II	30.0	103.5	34.5	1269	Al wheel, CS housing		Interp.	
	200 Class III	30.0	103.5	34.5	1401	Al wheel, CS housing		Interp.	
	222 Class II	33.4	119.4	39.8	1515	Al wheel, CS housing		Interp.	
	222 Class III	33.4	119.4	39.8	1665	Al wheel, CS housing		Interp.	
MPQS 2x1 Array (Twin City Fans)	122 Class II	20.0	23.0	46.0	298	Al wheel, CS housing		Interp.	
	150 Class II	21.0	25.4	50.8	346	Al wheel, CS housing		Interp.	
	165 Class II	23.6	28.1	56.1	500	Al wheel, CS housing		Interp.	
	182 Class II	27.4	31.8	63.6	674	Al wheel, CS housing		Interp.	
	182 Class III	27.4	31.8	63.6	746	Al wheel, CS housing		Interp.	
	200 Class II	30.0	34.5	69.0	846	Al wheel, CS housing		Interp.	
	200 Class III	30.0	34.5	69.0	934	Al wheel, CS housing		Interp.	
	222 Class II	33.4	39.8	79.6	1010	Al wheel, CS housing		Interp.	
	222 Class III	33.4	39.8	79.6	1110	Al wheel, CS housing		Interp.	
MPQS 2x2 Array (Twin City Fans)	122 Class II	20.0	46.0	46.0	596	Al wheel, CS housing		Interp.	
	150 Class II	21.0	50.8	50.8	692	Al wheel, CS housing		Interp.	
	165 Class II	23.6	56.1	56.1	1000	Al wheel, CS housing		Interp.	
	182 Class II	27.4	63.6	63.6	1348	Al wheel, CS housing		Interp.	
	182 Class III	27.4	63.6	63.6	1492	Al wheel, CS housing		Interp.	

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 16022



Manufacturer: Carrier		Table Description: Direct drive plenum Array						TABLE 2			
Model Line: 39CC											
Building Code: CBC 2016		Seismic Certification Limits:						$S_{DS}= 2.0\ g$ $z/h = 1.0$ $S_{DS}= 3.2\ g$ $z/h = 0.0$		$I_P = 1.5$	
Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT			
		Depth	Width	Height							
MPQS 2x2 Array (Twin City Fans)	200 Class II	30.0	69.0	69.0	1692	Al wheel, CS housing		Interp.			
	200 Class III	30.0	69.0	69.0	1868	Al wheel, CS housing		Interp.			
	222 Class II	33.4	79.6	79.6	2020	Al wheel, CS housing		Interp.			
	222 Class III	33.4	79.6	79.6	2220	Al wheel, CS housing		Interp.			
MPQS 2x3 Array (Twin City Fans)	122 Class II	20.0	69.0	46.0	894	Al wheel, CS housing		Interp.			
	150 Class II	21.0	76.1	50.8	1038	Al wheel, CS housing		Interp.			
	165 Class II	23.6	84.2	56.1	1500	Al wheel, CS housing		Interp.			
	182 Class II	27.4	95.4	63.6	2022	Al wheel, CS housing		Interp.			
	182 Class III	27.4	95.4	63.6	2238	Al wheel, CS housing		Interp.			
	200 Class II	30.0	103.5	69.0	2538	Al wheel, CS housing		Interp.			
	200 Class III	30.0	103.5	69.0	2802	Al wheel, CS housing		Interp.			
	222 Class II	33.4	119.4	79.6	3030	Al wheel, CS housing		Interp.			
	222 Class III	33.4	119.4	79.6	3330	Al wheel, CS housing		Interp.			
MPQN 1x1 Array (Twin City Fans)	122 Class II	20.0	23.0	23.0	149	Al wheel, CS housing		Interp.			
	150 Class II	21.0	25.4	25.4	173	Al wheel, CS housing		Interp.			
	165 Class II	23.6	28.1	28.1	250	Al wheel, CS housing		Interp.			
	182 Class II	27.4	31.8	31.8	337	Al wheel, CS housing		Interp.			
	182 Class III	27.4	31.8	31.8	373	Al wheel, CS housing		Interp.			
	200 Class II	30.0	34.5	34.5	423	Al wheel, CS housing		Interp.			
	200 Class III	30.0	34.5	34.5	467	Al wheel, CS housing		Interp.			
	222 Class II	33.4	39.8	39.8	505	Al wheel, CS housing		Interp.			
	222 Class III	33.4	39.8	39.8	555	Al wheel, CS housing		Interp.			
	245 Class II	36.8	43.3	43.3	681	Al wheel, CS housing		Interp.			

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TRU PROJECT NO. 16022



Manufacturer: Carrier		Table Description: Direct drive plenum Array						TABLE 2			
Model Line: 39CC											
Building Code: CBC 2016		Seismic Certification Limits:						$S_{DS}= 2.0 g \quad z/h = 1.0$ $S_{DS}= 3.2 g \quad z/h = 0.0$		$I_P = 1.5$	
Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT			
		Depth	Width	Height							
MPQN 1x1 Array (Twin City Fans)	245 Class III	36.8	43.3	43.3	748	Al wheel, CS housing		Interp.			
	270 Class II	40.5	46.9	46.9	810	Al wheel, CS housing		Interp.			
	270 Class III	40.5	46.9	46.9	944	Al wheel, CS housing		Interp.			
	300 Class II	45.0	51.5	51.5	997	Al wheel, CS housing		1			
MPQN 1x2 Array (Twin City Fans)	122 Class II	20.0	46.0	23.0	298	Al wheel, CS housing		Interp.			
	150 Class II	21.0	50.8	25.4	346	Al wheel, CS housing		Interp.			
	165 Class II	23.6	56.1	28.1	500	Al wheel, CS housing		Interp.			
	182 Class II	27.4	63.6	31.8	674	Al wheel, CS housing		Interp.			
	182 Class III	27.4	63.6	31.8	746	Al wheel, CS housing		Interp.			
	200 Class II	30.0	69.0	34.5	846	Al wheel, CS housing		Interp.			
	200 Class III	30.0	69.0	34.5	934	Al wheel, CS housing		Interp.			
	222 Class II	33.4	79.6	39.8	1010	Al wheel, CS housing		Interp.			
	222 Class III	33.4	79.6	39.8	1110	Al wheel, CS housing		Interp.			
	245 Class II	36.8	86.5	43.3	1362	Al wheel, CS housing		Interp.			
	245 Class III	36.8	86.5	43.3	1496	Al wheel, CS housing		Interp.			
	270 Class II	40.5	93.9	46.9	1620	Al wheel, CS housing		Interp.			
	270 Class III	40.5	93.9	46.9	1888	Al wheel, CS housing		Interp.			
	300 Class II	45.0	103.0	51.5	1994	Al wheel, CS housing		Interp.			
MPQN 1x3 Array (Twin City Fans)	122 Class II	20.0	69.0	23.0	447	Al wheel, CS housing		Interp.			
	150 Class II	21.0	76.1	25.4	519	Al wheel, CS housing		Interp.			
	165 Class II	23.6	84.2	28.1	750	Al wheel, CS housing		Interp.			
	182 Class II	27.4	95.4	31.8	1011	Al wheel, CS housing		Interp.			
	182 Class III	27.4	95.4	31.8	1119	Al wheel, CS housing		Interp.			

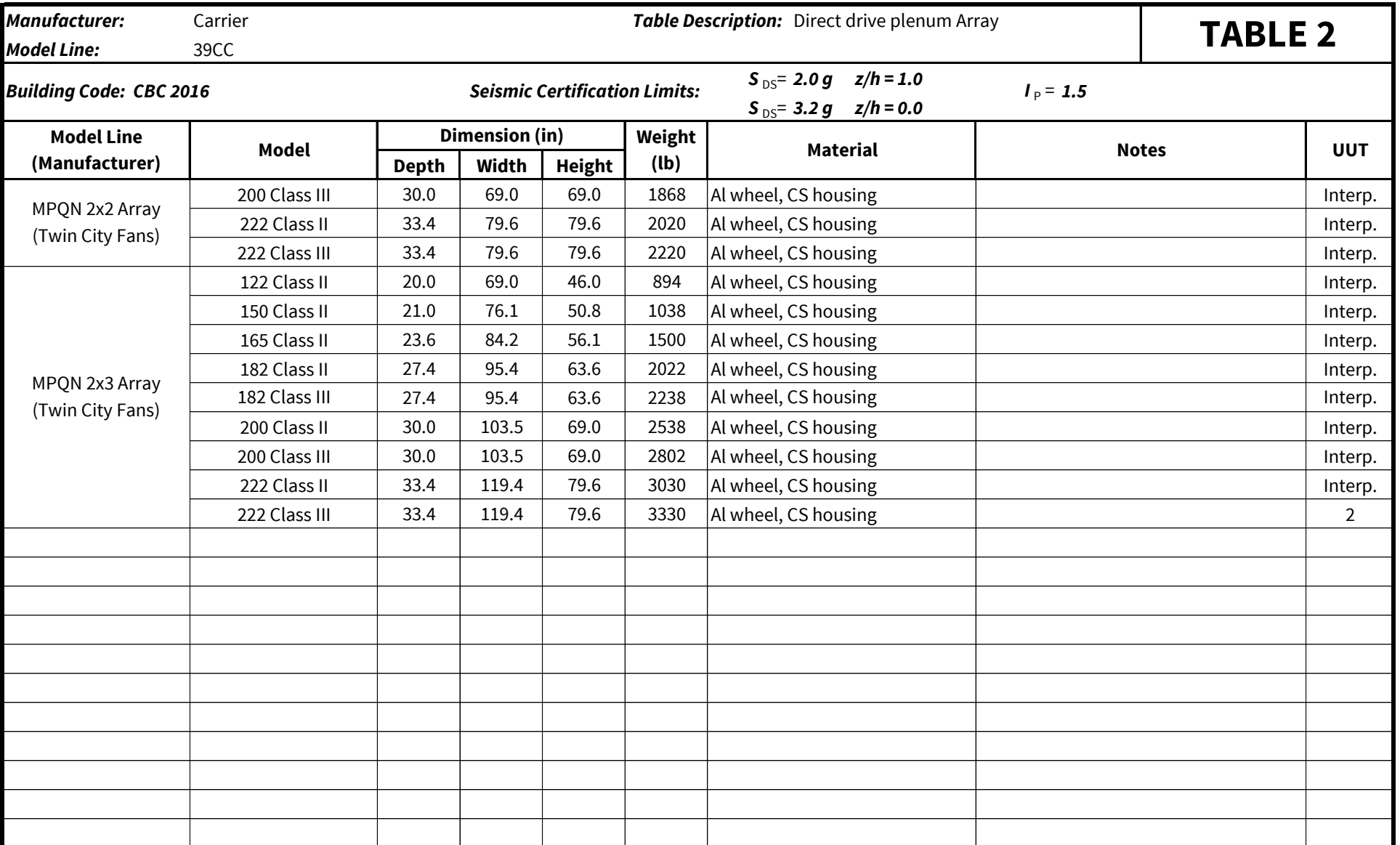
SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 16022

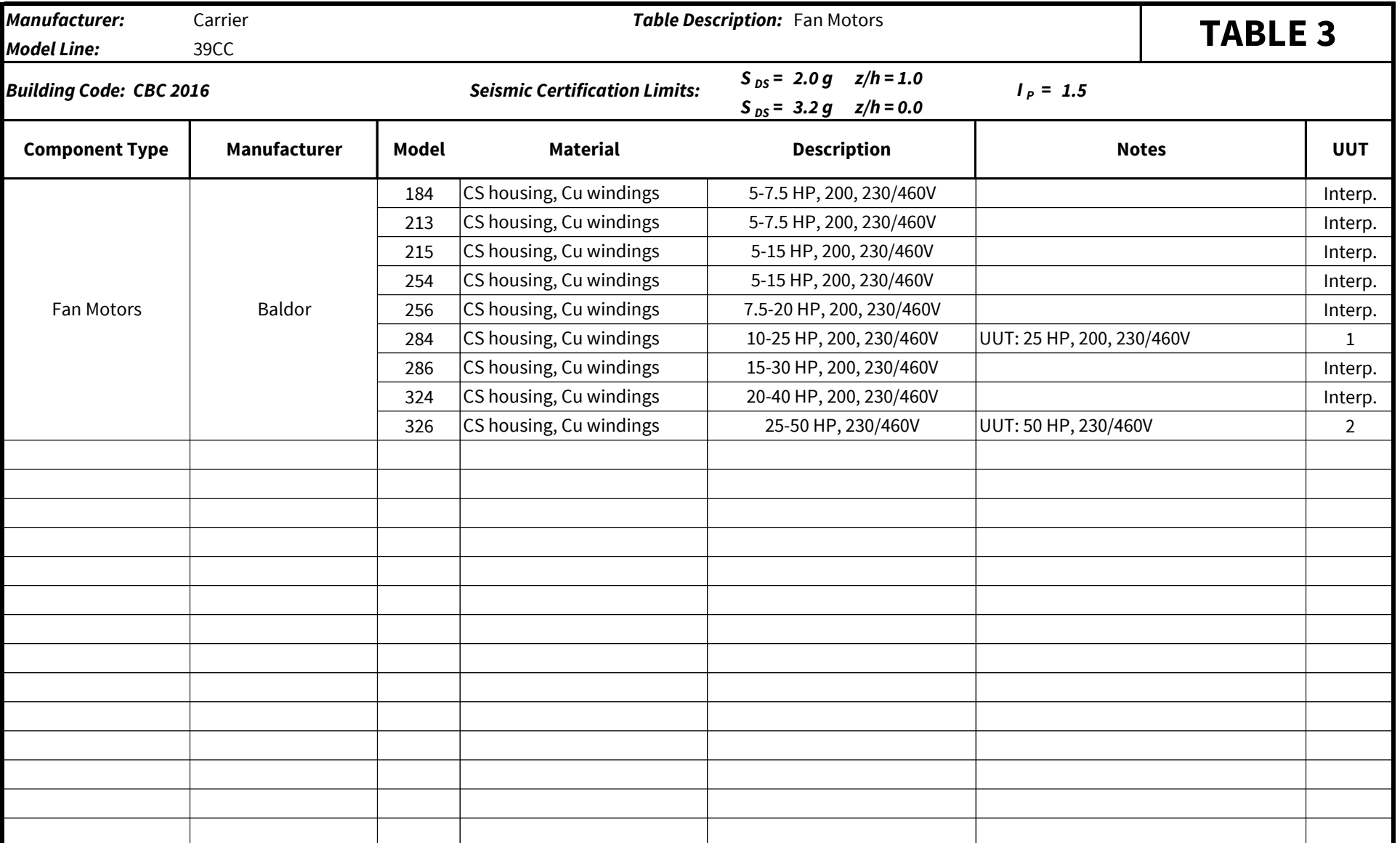


Manufacturer: Carrier		Table Description: Direct drive plenum Array						TABLE 2	
Model Line: 39CC									
Building Code: CBC 2016		Seismic Certification Limits:						$S_{DS}= 2.0\ g$ $z/h = 1.0$ $S_{DS}= 3.2\ g$ $z/h = 0.0$ $I_P = 1.5$	
Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT	
		Depth	Width	Height					
MPQN 1x3 Array (Twin City Fans)	200 Class II	30.0	103.5	34.5	1269	Al wheel, CS housing		Interp.	
	200 Class III	30.0	103.5	34.5	1401	Al wheel, CS housing		Interp.	
	222 Class II	33.4	119.4	39.8	1515	Al wheel, CS housing		Interp.	
	222 Class III	33.4	119.4	39.8	1665	Al wheel, CS housing		Interp.	
	245 Class II	36.8	129.8	43.3	2043	Al wheel, CS housing		Interp.	
	245 Class III	36.8	129.8	43.3	2244	Al wheel, CS housing		Interp.	
	270 Class II	40.5	140.8	46.9	2430	Al wheel, CS housing		Interp.	
	270 Class III	40.5	140.8	46.9	2832	Al wheel, CS housing		Interp.	
MPQN 2x1 Array (Twin City Fans)	122 Class II	20.0	23.0	46.0	298	Al wheel, CS housing		Interp.	
	150 Class II	21.0	25.4	50.8	346	Al wheel, CS housing		Interp.	
	165 Class II	23.6	28.1	56.1	500	Al wheel, CS housing		Interp.	
	182 Class II	27.4	31.8	63.6	674	Al wheel, CS housing		Interp.	
	182 Class III	27.4	31.8	63.6	746	Al wheel, CS housing		Interp.	
	200 Class II	30.0	34.5	69.0	846	Al wheel, CS housing		Interp.	
	200 Class III	30.0	34.5	69.0	934	Al wheel, CS housing		Interp.	
	222 Class II	33.4	39.8	79.6	1010	Al wheel, CS housing		Interp.	
	222 Class III	33.4	39.8	79.6	1110	Al wheel, CS housing		Interp.	
MPQN 2x2 Array (Twin City Fans)	122 Class II	20.0	46.0	46.0	596	Al wheel, CS housing		Interp.	
	150 Class II	21.0	50.8	50.8	692	Al wheel, CS housing		Interp.	
	165 Class II	23.6	56.1	56.1	1000	Al wheel, CS housing		Interp.	
	182 Class II	27.4	63.6	63.6	1348	Al wheel, CS housing		Interp.	
	182 Class III	27.4	63.6	63.6	1492	Al wheel, CS housing		Interp.	
	200 Class II	30.0	69.0	69.0	1692	Al wheel, CS housing		Interp.	

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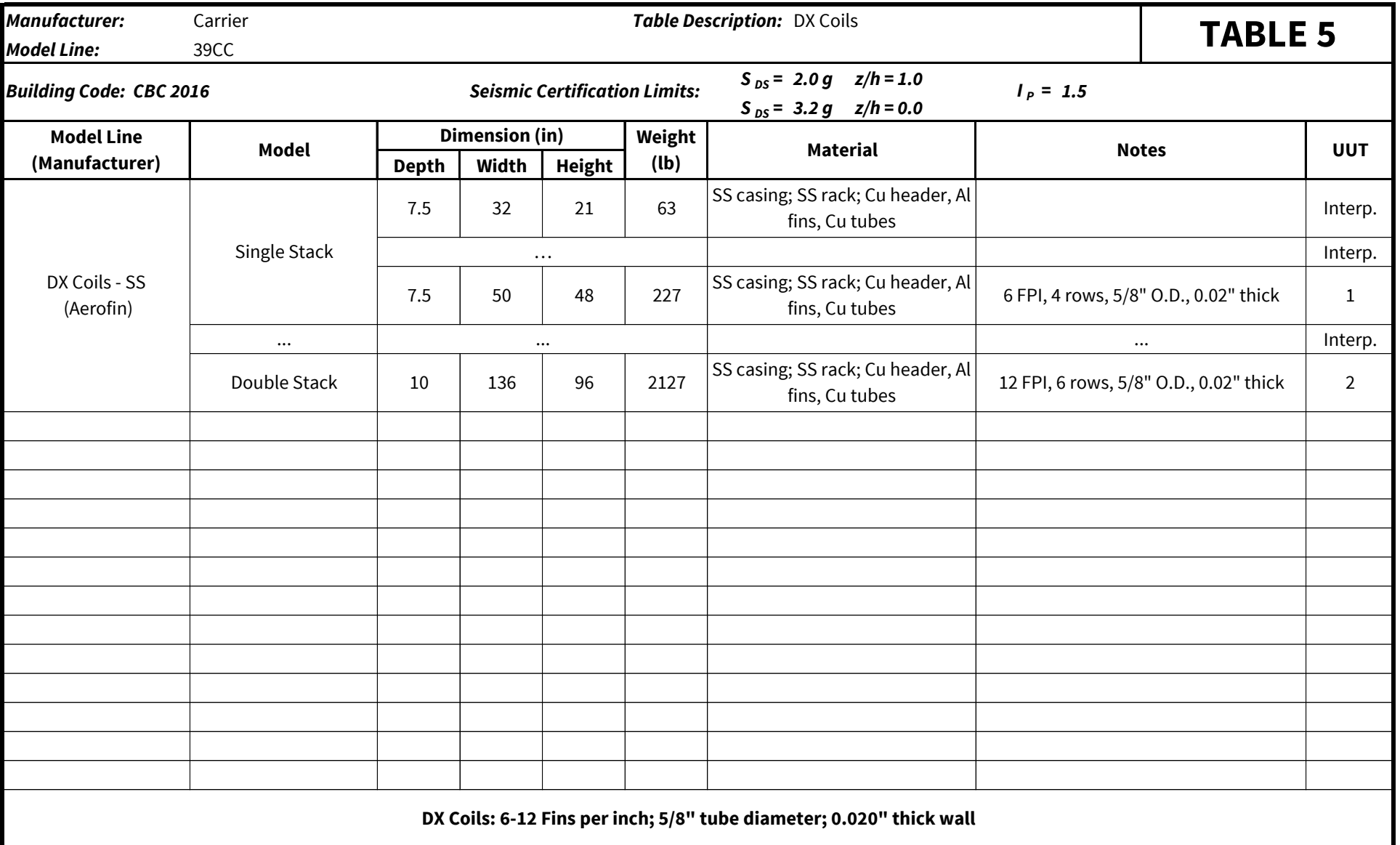


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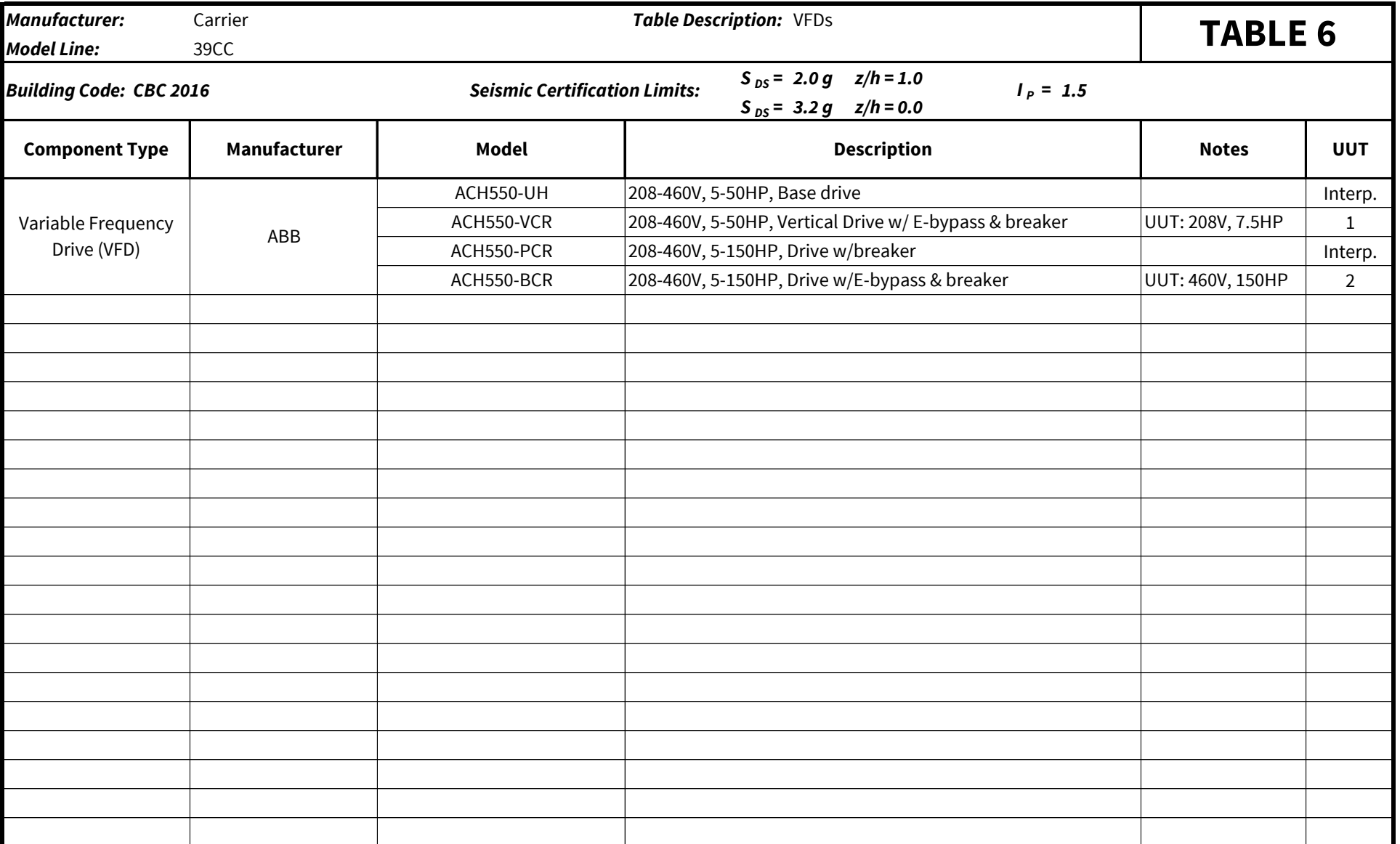


TRU Compliance, LLC - A Tobolski Watkins Affiliate
844.TRU.0200 | info@trucompliance.com

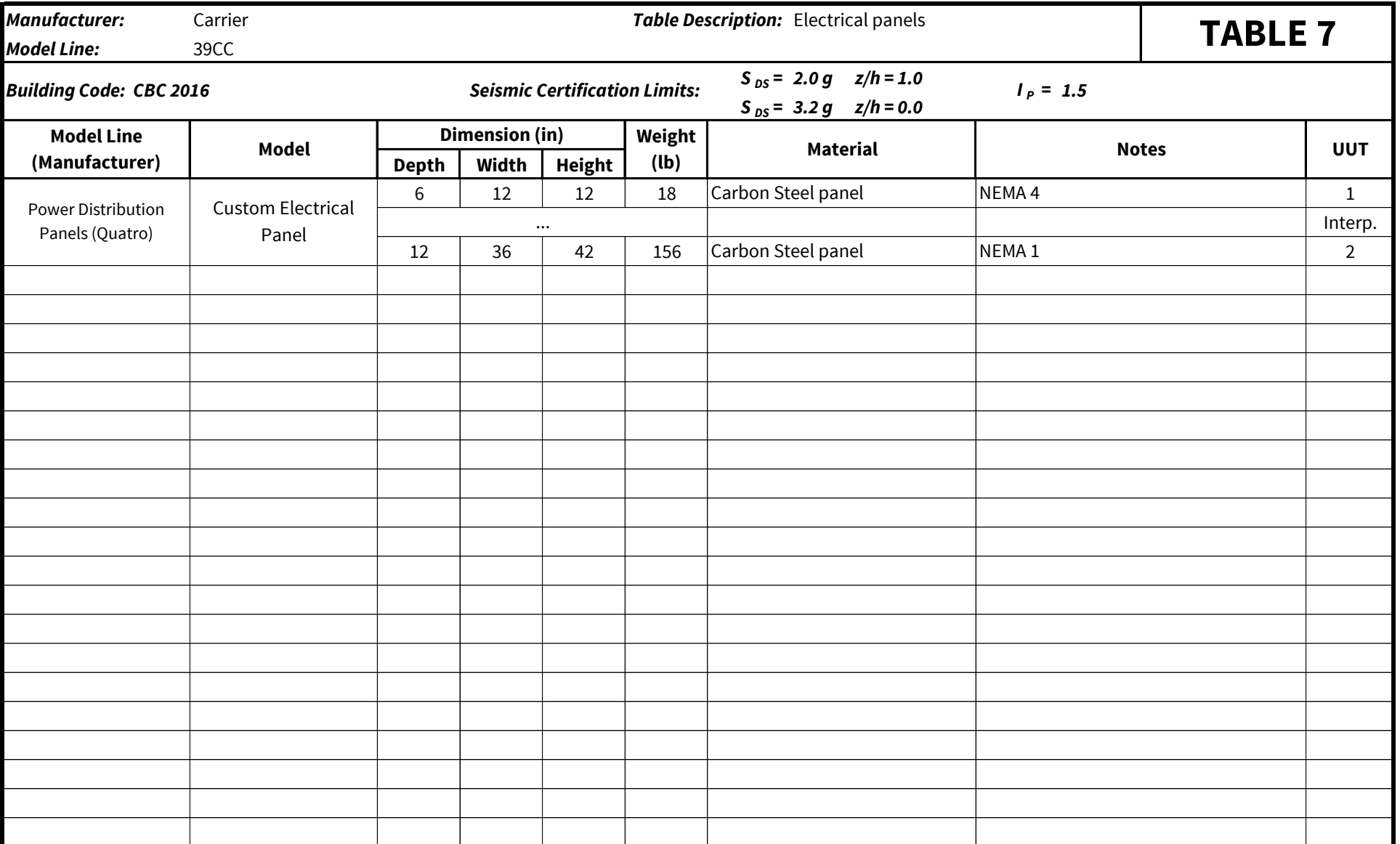
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TRU PROJECT NO. 16022



SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 16022



Manufacturer: Carrier		Table Description: Electrical Panel Components			TABLE 7.1
Model Line: 39CC					
Building Code: CBC 2016		Seismic Certification Limits:		$S_{DS} = 2.0 g \quad z/h = 1.0$ $S_{DS} = 3.2 g \quad z/h = 0.0$	$I_P = 1.5$
Component Type	Manufacturer	Model	Description	Notes	UUT
Circuit Breaker	Techna	JTECUL-1C-01	1A, 1 Pole		Interp.
		JTECUL-1C-04	4A, 1 Pole		Interp.
		JTECUL-1C-05	5A, 1 Pole		Interp.
		JTECUL-1C-10	10A, 1 Pole		1
		JTECUL-1C-15	15A, 1 Pole		2
Fuses	MERSEN	ATDR1	1A Time Delay Fuse		2
		...			Interp.
		ATDR10	10A Time Delay Fuse		1
		...			Interp.
		ATDR15	15A Time Delay Fuse		1
		...			Interp.
		ATDR20	20A Time Delay Fuse		2
		ATDR300	300A Time Delay Fuse		Interp.
		AJT1	1A Time Delay Fuse		Interp.
		...			Interp.
		AJT60	60A Time Delay Fuse		1
		...			Interp.
		AJT300	300A Time Delay Fuse		2
Transformers	Hammond	SP50PR	120x240/12x24 50VA; Cu windings		Interp.
		SP100PR	120x240/12x24 100VA; Cu windings		Interp.
		SP150PR	120x240/12x24 150VA; Cu windings		2
		SP250PR	120x240/12x24 250VA; Cu windings		Interp.
		SP350PR	120x240/12x24 350VA; Cu windings		Interp.

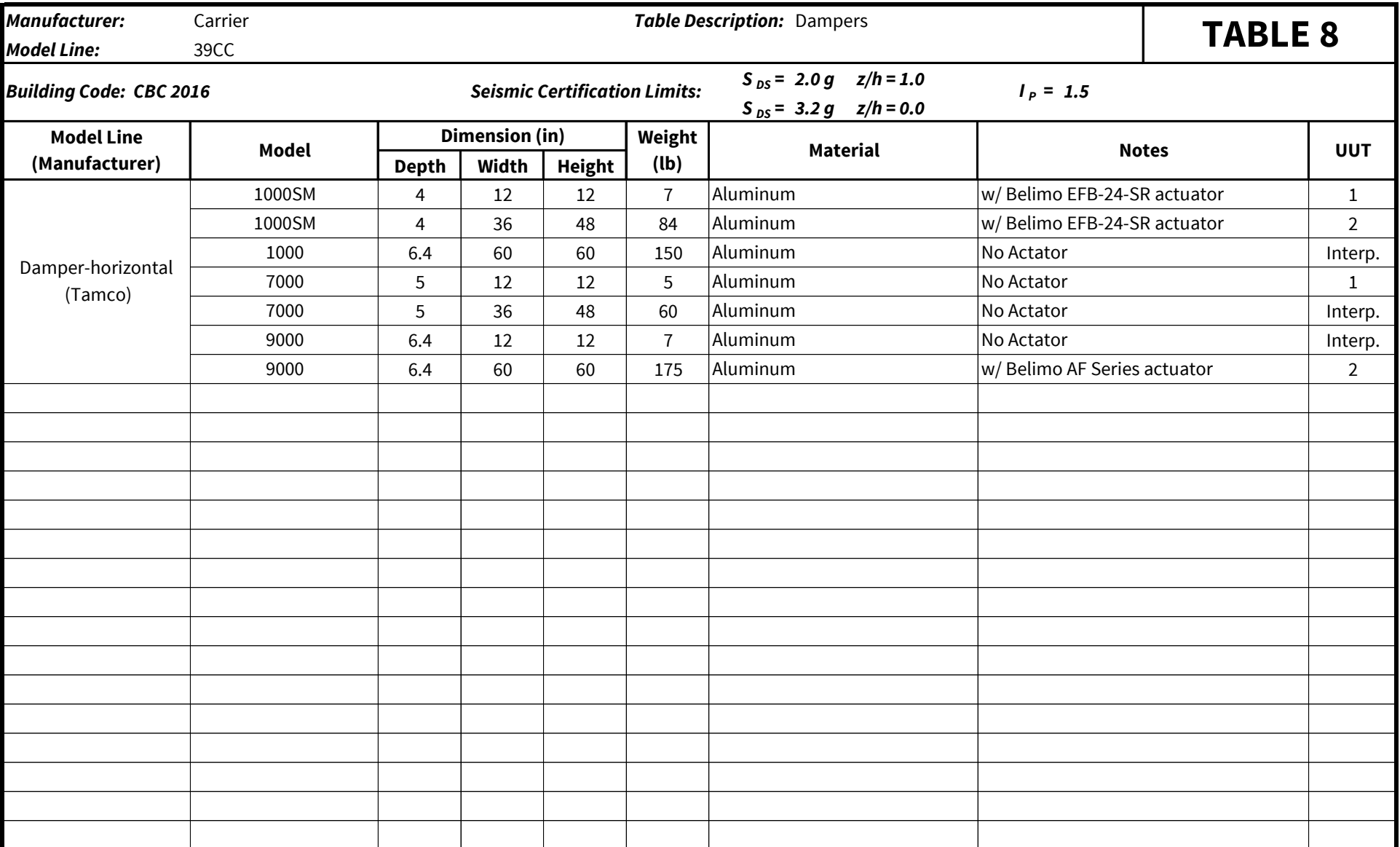
SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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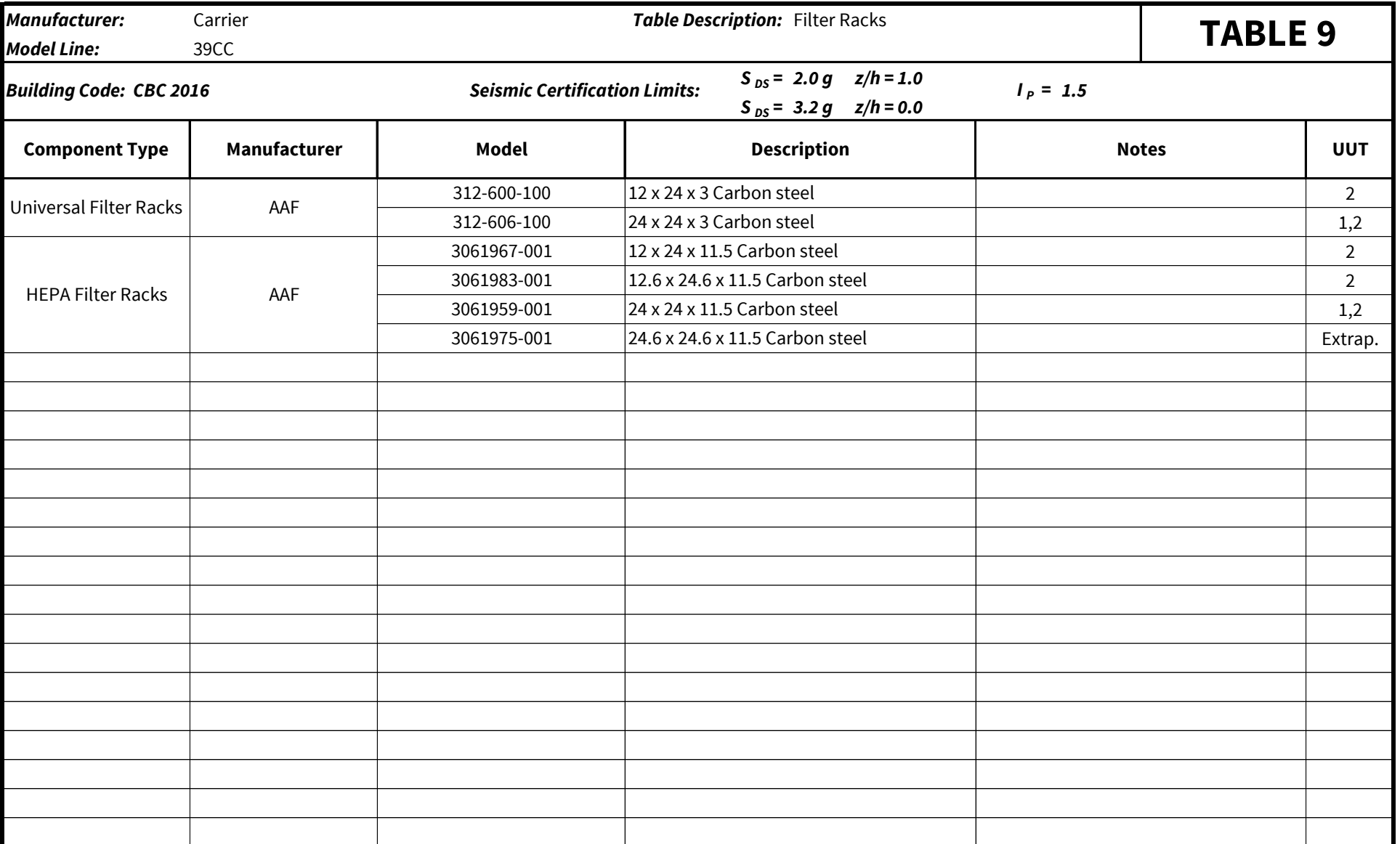


Manufacturer: Carrier		Table Description: Electrical Panel Components			TABLE 7.1
Model Line: 39CC					
Building Code: CBC 2016		Seismic Certification Limits:		$S_{DS} = 2.0\text{ g}$ $z/h = 1.0$ $S_{DS} = 3.2\text{ g}$ $z/h = 0.0$	$I_p = 1.5$
Component Type	Manufacturer	Model	Description	Notes	UUT
Transformers	Hammond	SP500PR	120x240/12x24 500VA; Cu windings		Interp.
		SP50QR	240/480-12/24 50VA; Cu windings		Interp.
		SP100QR	240/480-12/24 100VA; Cu windings		Interp.
		SP150QR	240/480-12/24 150VA; Cu windings		Interp.
		SP250QR	240/480-12/24 250VA; Cu windings		Interp.
		SP350QR	240/480-12/24 350VA; Cu windings		Interp.
		SP500QR	240/480-12/24 500VA; Cu windings		Interp.
		SP50ACP	600/480-120x240 50VA; Cu windings		Interp.
		SP100ACP	600/480-120x240 100VA; Cu windings		Interp.
		SP150ACP	600/480-120x240 150VA; Cu windings		Interp.
		SP250ACP	600/480-120x240 250VA; Cu windings		Interp.
		SP350ACP	600/480-120x240 350VA; Cu windings		Interp.
		SP500ACP	600/480-120x240 500VA; Cu windings		Interp.
		SP750ACP	600/480-120x240 750VA; Cu windings		Interp.
		SP1000ACP	600/480-120x240 1000VA; Cu windings		Interp.
		SP1500ACP	600/480-120x240 1500VA; Cu windings		1
		SP2000ACP	600/480-120x240 2000VA; Cu windings		Interp.
		SP3000ACP	600/480-120x240 3000VA; Cu windings		2

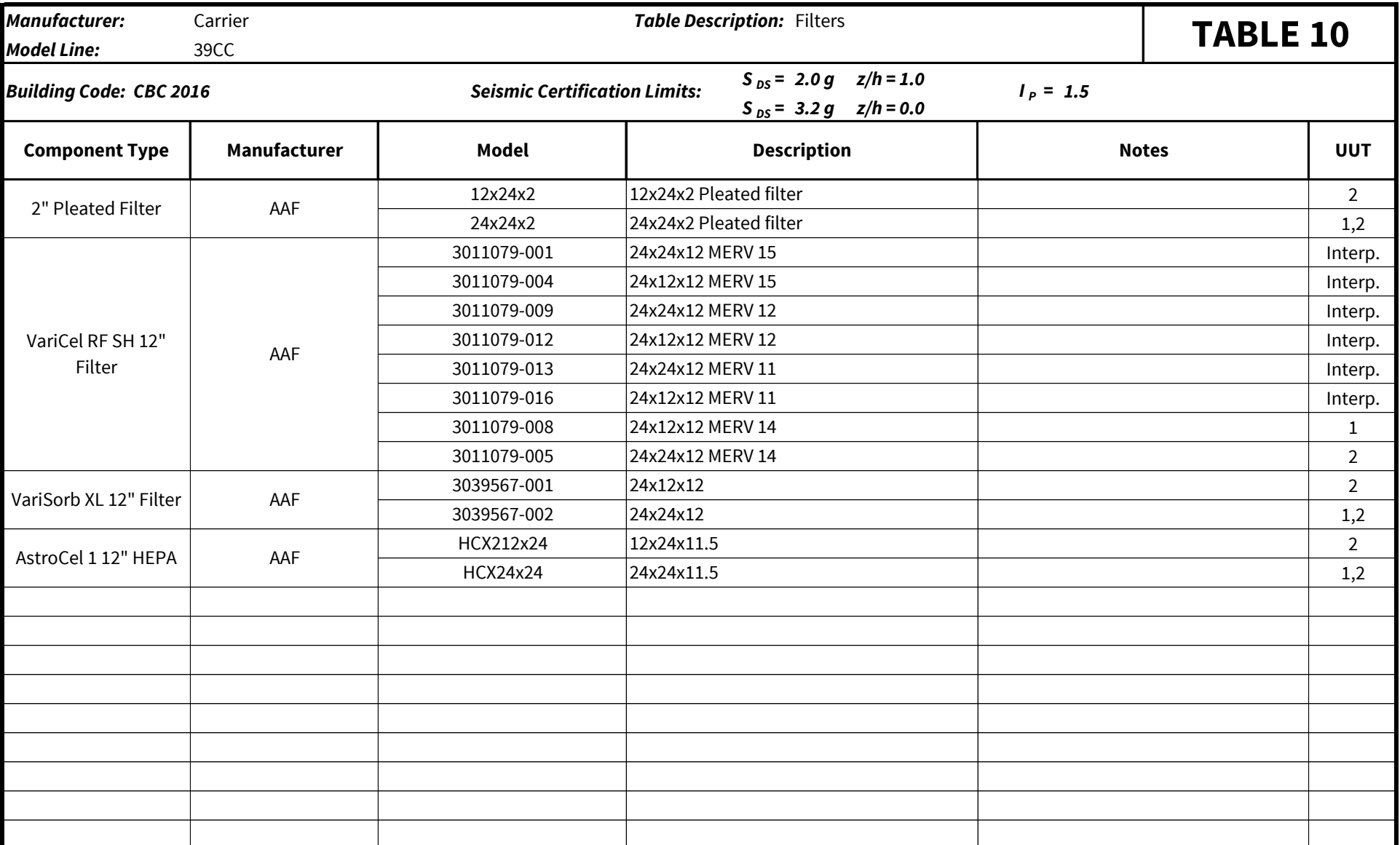
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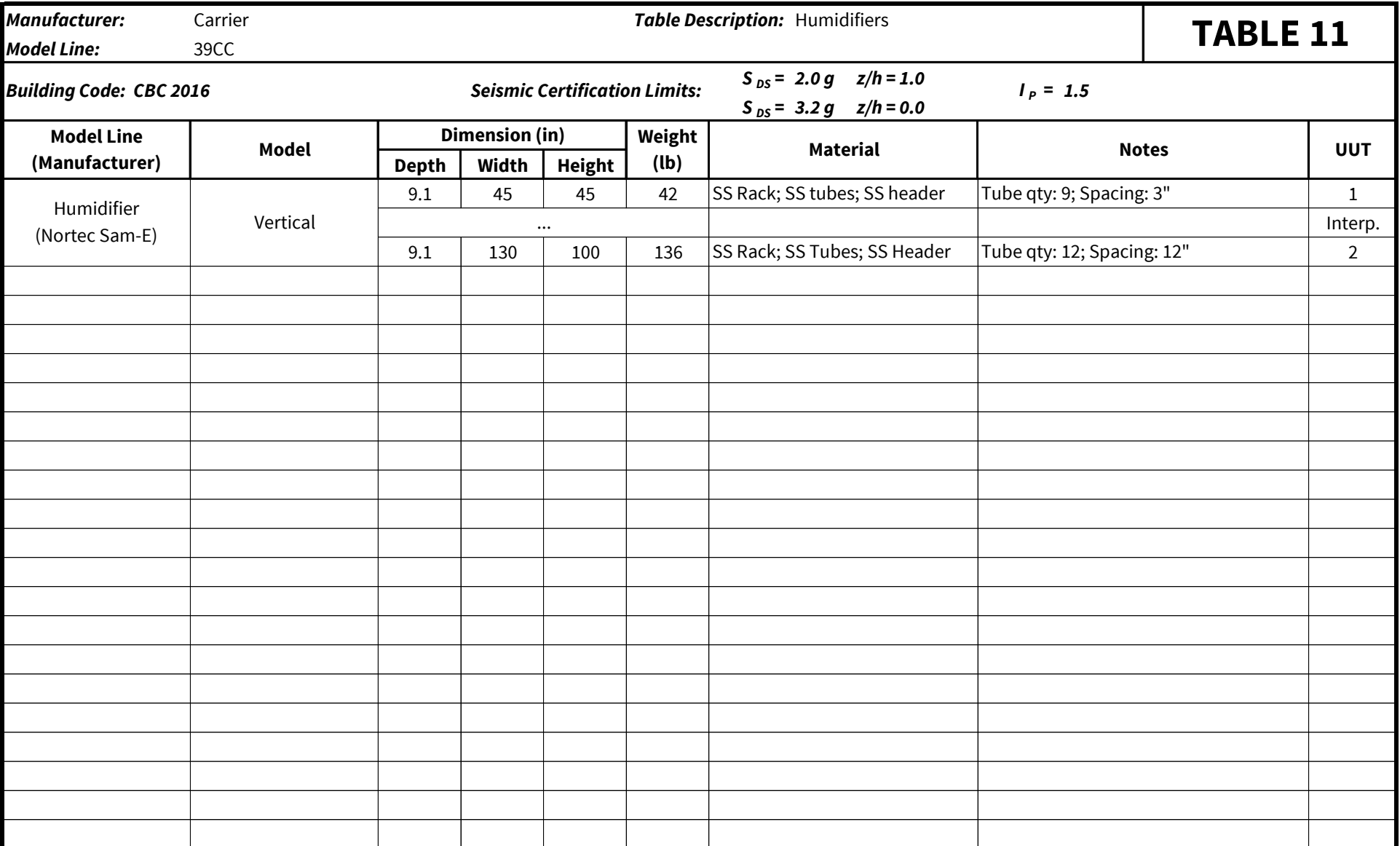
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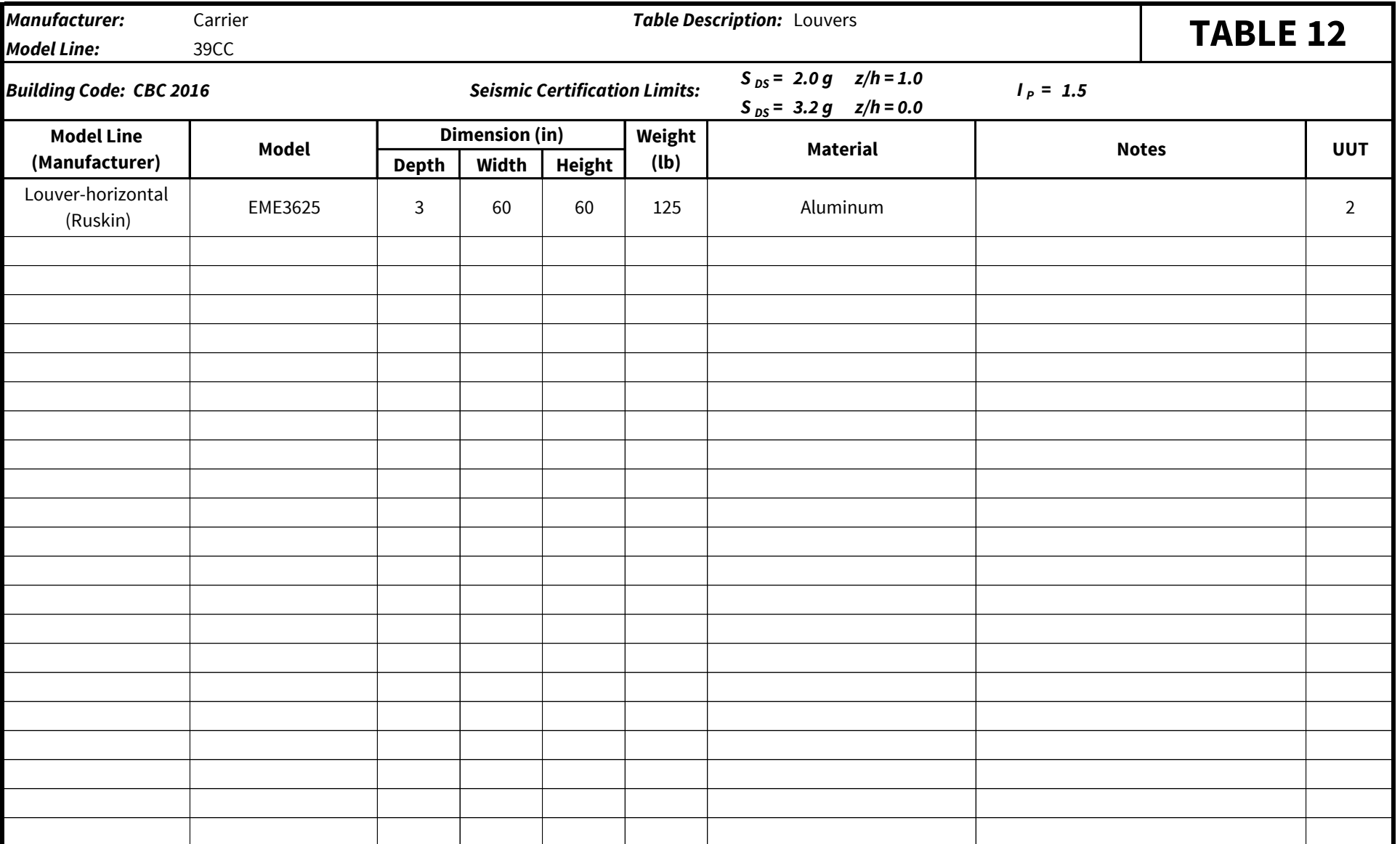
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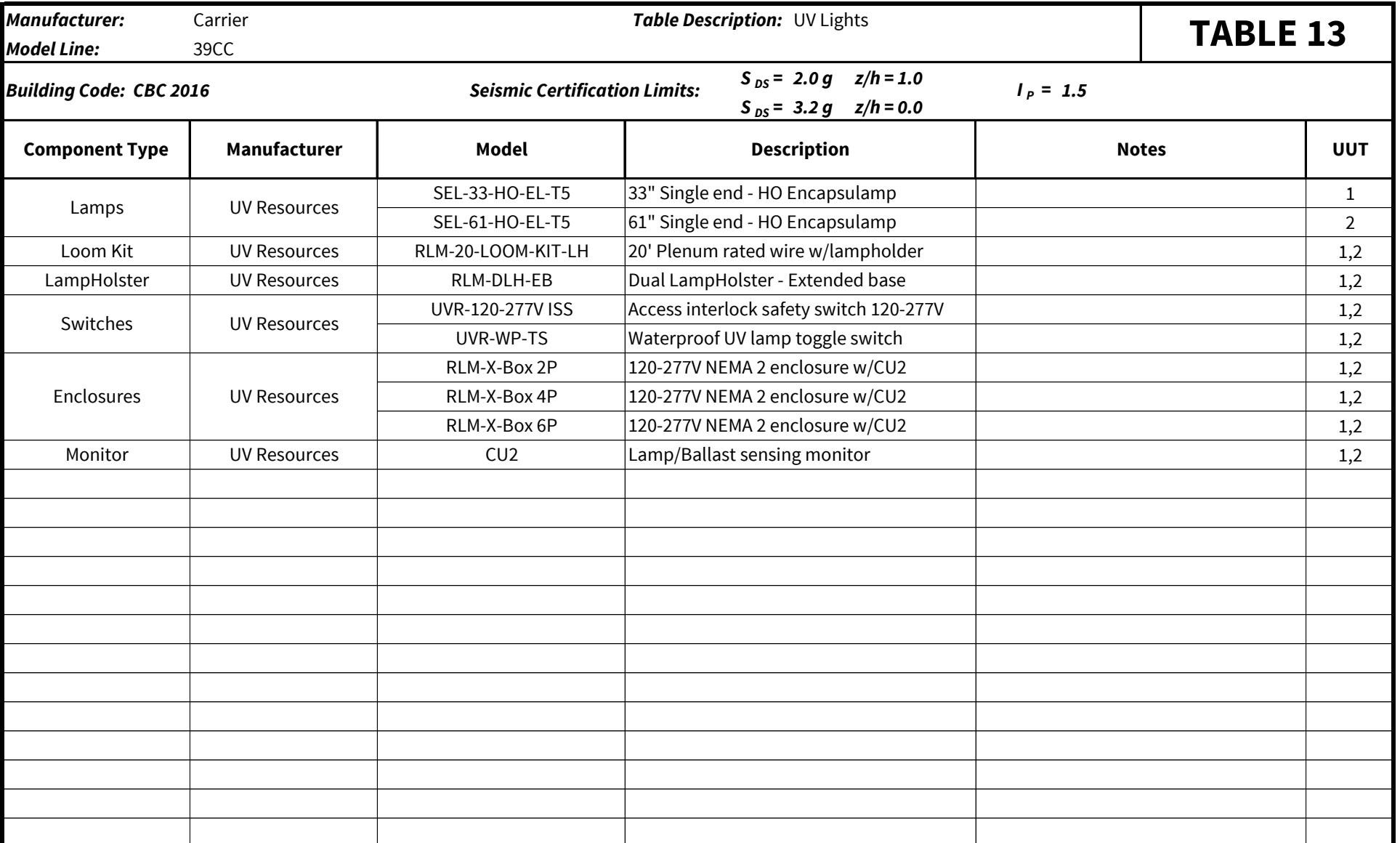
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TRU PROJECT NO. 16022



TRU PROJECT NO. 16022



UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 16022



Manufacturer:	Carrier	UUT 1
Model Line:	39CC	
Model Number:	39CCW	
		Serial Number: N/A

Product Construction Summary:
Standard construction; 2" Panels; **Panel - Outer Skin:** 16 gauge Al; **Panel - Inner Skin:** 20 gauge Al; **Roof:** 16 gauge Al;
Insulation: Foam

Options/Subcomponent Summary:
MPQN 300 Class II 1x1 fan array; Baldor 25 HP motor; Aerofin single stack hydronic coils; Aerofin single stack DX coils; ABB ACH550-VCR Variable Frequency Drive; Quatro Electrical Panel; TAMCO 1000SM aluminum damper w/ Belimo EFB-24-SR actuator; TAMCO 7000 aluminum damper; Nortec SAM-E vertical humidifier; UV Light assembly.
See tables 2-13 for a complete listing of included subcomponents.

UUT Properties										
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)						
	Depth	Width	Height	Front-Back	Side-Side	Vertical				
5,900	209	66	65	21.4	21.5	12.7				
UUT Highest Passed Seismic Run Information										
Building Code		Test Criteria		S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016		ICC-ES AC156		2.0 g	1.0	1.5	3.2	2.4	2.13	0.85
				3.2 g	0.0	1.5				

Test Mounting Details:



The unit was mounted using (14) 1/2" diameter SAE Grade 8 bolts around the perimeter of the base flange. Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 16022



Manufacturer:	Carrier	UUT 2
Model Line:	39CC	
Model Number:	39CCM	
		Serial Number: N/A

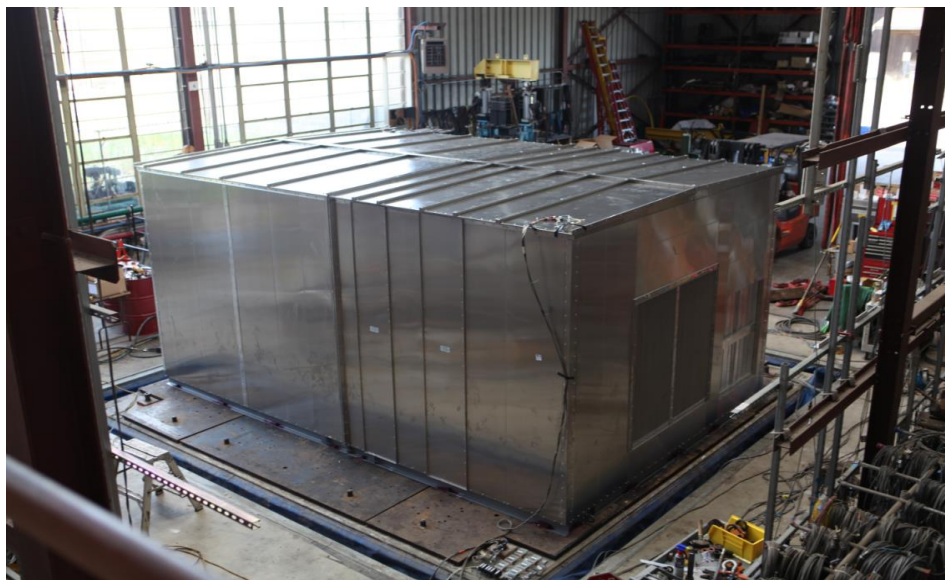
Product Construction Summary:
Standard construction; 2" Panels; **Panel - Outer Skin:** 16 gauge Al; **Panel - Inner Skin:** 20 gauge Al; **Roof:** 16 gauge Al;
Insulation: Foam

Options/Subcomponent Summary:
MPQN 222 Class III 2x3 fan array; Baldor 50 HP motor; Aerofin double stack hydronic coils; Aerofin double stack DX coils; ABB ACH550-BCR Variable Frequency Drive; Quatro Electrical Panel; TAMCO 1000SM aluminum damper w/ Belimo EFB-24-SR actuator; TAMCO 9000 aluminum damper w/Belimo AF series actuator; Nortec SAM-E vertical humidifier; UV Light assembly. See tables 2-13 for a complete listing of included subcomponents.

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
23,200	227	175.5	116.6	11.7	12.3	15.7

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S_{DS} (g)	z/h	I_p	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2016	ICC-ES AC156	2.0 g	1.0	1.5	3.2	2.4	2.13	0.85
		3.2 g	0.0	1.5				

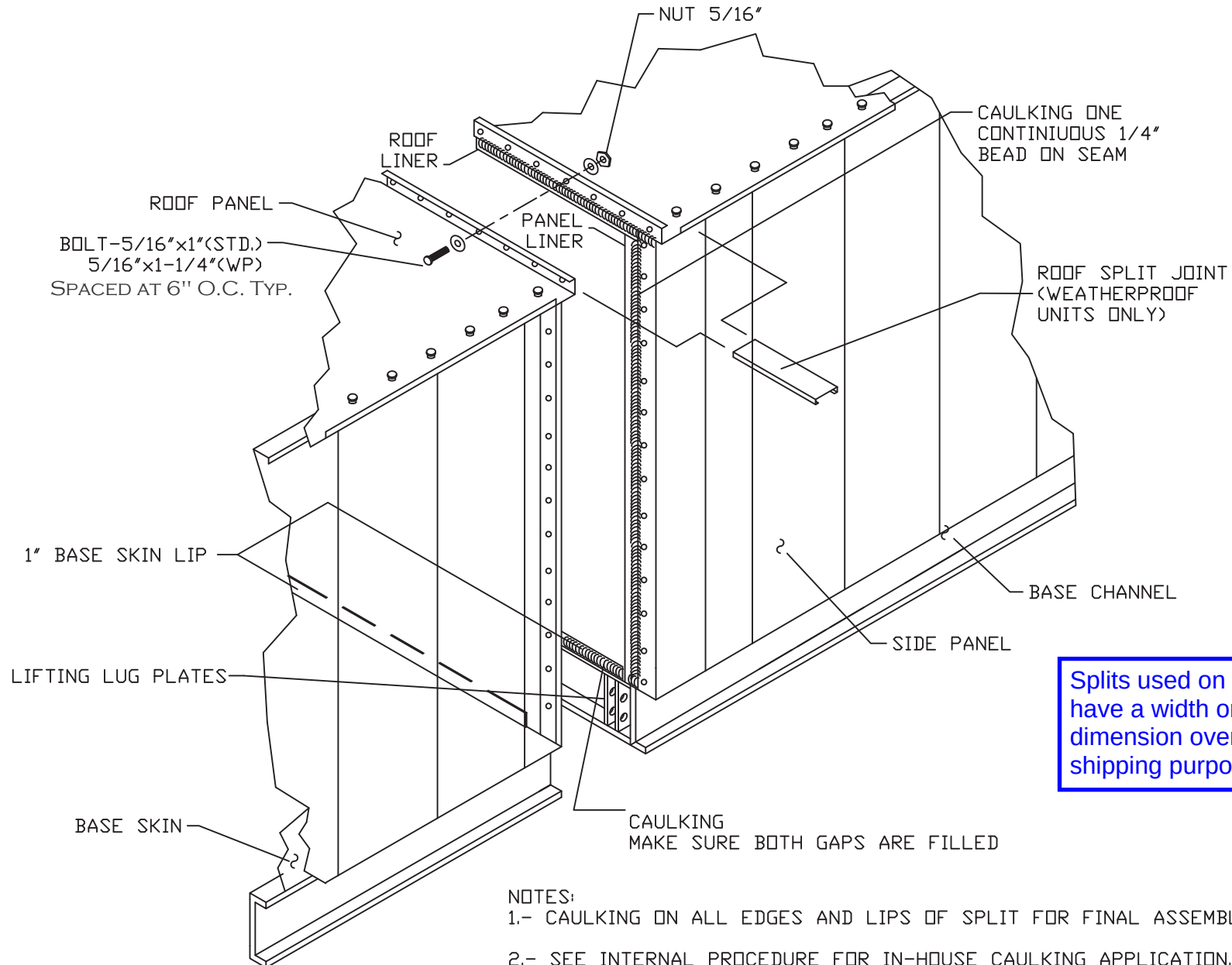
Test Mounting Details:



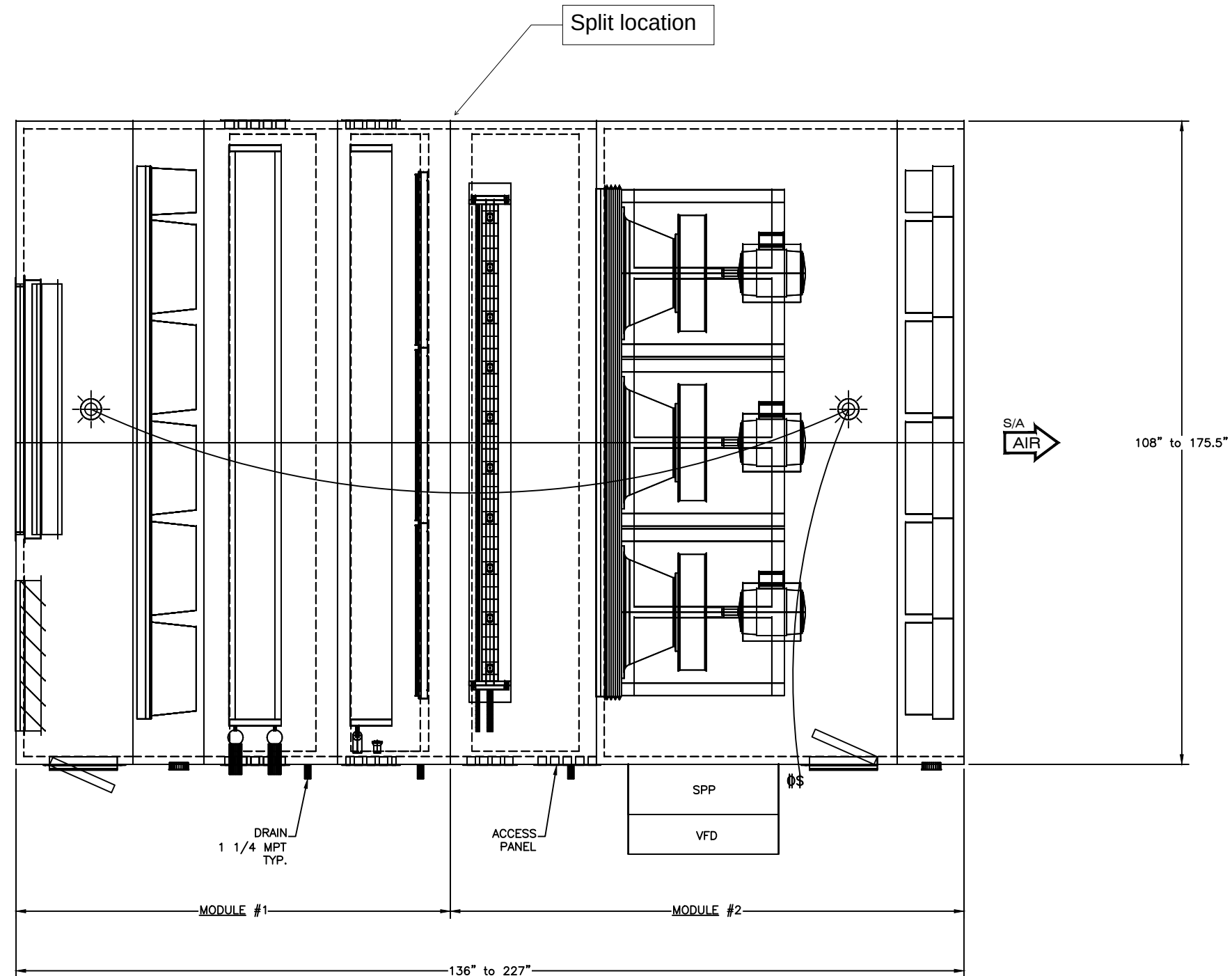
The unit was mounted using (24) 3/4" diameter SAE Grade 8 bolts around the perimeter of the base flange. Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

UNIT CONSTRUCTION

Split Detail



Splits used on units that have a width or depth dimension over 108" for shipping purposes.



PROJECT/PROJET NAME: SEISMIC TEST UNIT	
PROJECT/PROJET N°: Q37229	CUSTOMER/CLIENT :
MODEL/MODÈLE: 39CCW	SYSTEM/SYSTÈME : AHU_OUTDOOR CFM:16,000-45,000
ENGINEER/INGÉNIEUR:	AGENT:
DRAFTER/DESSINATEUR: Salem B.	DATE: 16-DEC-16
CHECKED BY/VÉRIFIÉ PAR:	APPROBATION:
SCALE/ÉCHELLE: 3/8"=1'-0"	REV/RÉV : 00
DRAWING/DESSIN N°: Q-37229 (AHU_OUTDOOR)	SHEET : 3/3
 	
629 McCaffrey, Montreal, Quebec H4T 1N3, Canada TEL:514-324-5050 * FAX:450-625-6818 *	