



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0113

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Greenheck Fan Corporation

Manufacturer's Technical Representative: Brandon Schreiner

Mailing Address: 1100 Greenheck Drive, Schofield, WI 54479

Telephone: (715) 297-7430

Email: Brandon.Schreiner@greenheck.com

Product Information

Product Name: Greenheck Ventilation Fans (SQ/BSQ/XID/XIB, R, RBUMO, RSF/RSFP/XRS)

Product Model Number(s): Various (See Attachment)

Product Category: Air Handling Units

Product Sub-Category: Fans

General Description: Air handling fans including centrifugal and propeller, inline and rooftop, supply, and exhaust.

Mounting Description: Several - See Certified Product Tables -

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

Contact Person: Daniel Zentner

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

Telephone: (541) 292-5839

Email: dzentner@structint.com

Title: Program Manager



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

Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.

Name: LACHEZAR HANDZHIYSKI California License Number: S6515

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

Telephone: (669) 437-0200 Email: Lhandzhiyski@StructInt.com

Certification Method

☐ GR-63-Core ☒ ICC-ES AC156 ☐ IEEE 344 ☐ IEEE 693 ☐ NEBS 3
☐ Other (Please Specify):

Testing Laboratory

Company Name: ANCO ENGINEERS, INC.

Contact Person: Michael Schulze

Mailing Address: 1965 33rd Street, Suite A, Boulder CO 80301

Telephone: (303) 443-7580 Email: anco@ancoengineers.com

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)

Contact Person: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513

Telephone: (972) 247-9657 Email: info@etldallas.com



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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.43

SDS (Design spectral response acceleration at short period, g) = 1.90

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 05/05/2031

Date: 5/5/2025

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 1.9

z/h = 1

Condition of Approval (if applicable):

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)						TABLE 1	
Model Line: SQ, XID							
Certified Product Construction Summary: Carbon Steel Panels; Heavy-Gauge Carbon Steel Drive Frame; Inlet and Outlet Duct Collars; Direct Drive; Aluminum Wheel or Composite Wheel (SQ 60-95 composite option available); Disconnect Switch; (2) Removable Access Panels							
Certified Options Summary: Vari-Green Motor; Inlet and Outlet Guards; Speed Controller; Extended Lube Lines; HP (high pressure wheel) Filter boxes are not covered for this model line. Fans are also sold under Accurex Brand as "XID" (replace "SQ" with "XID" for model number)							
Mounting Configuration: Base mounted - spring isolated Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS}= 1.90\text{ g}\quad z/h=1.0$ $S_{DS}= 1.90\text{ g}\quad z/h=0.0$		$I_P= 1.5$	
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
Greenheck "SQ"	SQ-60	15.0	12.0	12.0	33		Extrap.
	SQ-65	15.0	12.0	12.0	33		Extrap.
	SQ-70	15.0	12.0	12.0	33		Extrap.
	SQ-75	15.0	12.0	12.0	33		Extrap.
	SQ-80	19.0	15.0	15.0	45		Extrap.
	SQ-85	19.0	15.0	15.0	45		Extrap.
	SQ-90	19.0	15.0	15.0	45		Extrap.
	SQ-95	19.0	15.0	15.0	45	UUT25: 41.5 lbs., UUT44: 56 lbs.	25, 44
	SQ-97	19.0	15.0	15.0	53		Interp.
	SQ-98	19.0	15.0	15.0	53		Interp.
Accurex "XID"	SQ-99	19.0	15.0	15.0	53		Interp.
	SQ-100	24.0	17.0	17.0	62		Interp.
	SQ-120	24.0	19.0	19.0	66		Interp.
	SQ-130	24.0	21.0	21.0	68		Interp.
	SQ-130HP	24.0	21.0	21.0	68		Interp.
	SQ-140	25.0	23.0	23.0	101		Interp.
	SQ-140HP	25.0	23.0	23.0	101		Interp.
	SQ-160	29.0	26.0	26.0	111		Interp.
	SQ-160HP	29.0	26.0	26.0	111	UUT26: 110.5 lbs.	26

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)						TABLE 2	
Model Line: SQ, XID							
Certified Product Construction Summary: Carbon Steel Panels; Heavy-Gauge Carbon Steel Drive Frame; Inlet and Outlet Duct Collars; Direct Drive; Aluminum Wheel or Composite Wheel (SQ 60-95 composite option available); Disconnect Switch; (2) Removable Access Panels							
Certified Options Summary: Direct Drive Motor Cover; Speed Controllers; Side Discharge; Wiring Pigtail; HP (high pressure wheel) Filter boxes are not covered for this model line. Fans are also sold under Accurex Brand as "XID" (replace "SQ" with "XID" for model number)							
Mounting Configuration: Ceiling mounted - spring isolated Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2022		Seismic Certification Limits:				$S_{DS}= 1.90\text{ g}$ $z/h=1.0$ $S_{DS}= 1.90\text{ g}$ $z/h=0.0$	$I_P= 1.5$
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
Greenheck "SQ" <							

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)						TABLE 3	
Model Line: BSQ, XIB							
Certified Product Construction Summary: Carbon Steel Panels; Heavy-Gauge Carbon Steel Drive Frame; Aluminum Wheel; Inlet and Outlet Duct Collars; Cast Iron Belt Drive Assembly; Disconnect Switch; (2) Removable Access Panels							
Certified Options Summary: Filter Box; Motor Mounted on Top; Inlet and Outlet Guards; Belt Drive Motor Cover and Belt Guard; Insulated Housing; Wiring Pigtail; HP (high pressure wheel) Fans are also sold under Accurex Brand as "XIB" (replace "BSQ" with "XIB" for model number)							
Mounting Configuration: Base mounted - spring isolated Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2022		Seismic Certification Limits:			$S_{DS}= 1.90\text{ g}\quad z/h=1.0$ $S_{DS}= 1.90\text{ g}\quad z/h=0.0$		$I_P= 1.5$
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
Greenheck "BSQ"	BSQ-70	57.0	15.0	23.0	168		Extrap.
	BSQ-80	57.0	17.0	30.0	168		Extrap.
	BSQ-90	57.0	17.0	30.0	168		Extrap.
	BSQ-100	57.0	17.0	30.0	171		Extrap.
	BSQ-120	62.0	19.0	32.0	195		Extrap.
	BSQ-130	56.0	21.0	34.0	191		Extrap.
	BSQ-130HP	56.0	21.0	34.0	191		Extrap.
	BSQ-140	62.0	23.0	36.0	232		Extrap.
	BSQ-140HP	62.0	23.0	36.0	232		Extrap.
	BSQ-160	62.0	26.0	39.0	345		Extrap.
	BSQ-160HP	62.0	26.0	39.0	345		Extrap.
	BSQ-180	64.0	27.0	41.0	395		Extrap.
	BSQ-180HP	64.0	27.0	41.0	395	UUT27: 182 lbs. w/o filter box	27
	BSQ-200	72.0	31.0	47.0	492		Interp.
	BSQ-200HP	72.0	31.0	47.0	492		Interp.
	BSQ-240	75.0	38.0	54.0	624		Interp.
	BSQ-240HP	75.0	38.0	54.0	624		Interp.
	BSQ-300	75.0	46.0	64.0	810		Interp.
	BSQ-300HP	75.0	46.0	64.0	810		Interp.
	BSQ-360	82.0	52.0	70.0	1,008		Interp.
	BSQ-360HP	82.0	52.0	70.0	1,008		Interp.
BSQ-420	96.0	58.0	76.0	1,236	UUT28: 1,236 w/ filter box	28	

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)						TABLE 4	
Model Line: BSQ, XIB							
Certified Product Construction Summary: Carbon Steel Panels; Heavy-Gauge Carbon Steel Drive Frame; Aluminum Wheel; Inlet and Outlet Duct Collars; Cast Iron Belt Drive Assembly; Disconnect Switch; (2) Removable Access Panels							
Certified Options Summary: Filter Box; Motor Mounted on Top & Side; Inlet and Outlet Guards; Belt Drive Motor Cover and Belt Guard; Insulated Housing; Speed Controllers; Extended Lube Lines; Wiring Pigtail; HP (high pressure wheel) Fans are also sold under Accurex Brand as "XIB" (replace "BSQ" with "XIB" for model number)							
Mounting Configuration: Ceiling mounted - spring isolated Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2022		Seismic Certification Limits:			$S_{DS}= 1.90\text{ g}\quad z/h=1.0$ $S_{DS}= 1.90\text{ g}\quad z/h=0.0$		$I_P= 1.5$
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
Greenheck "BSQ" 							

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)						TABLE 5	
Model Line: RE2, RS2, RCE3, RCS3, RPDR							
Certified Product Construction Summary: Direct Drive: Construction Levels II & III; Carbon Steel & Aluminum Fan Blades; Type L & H Propellers; Heavy-Guage Carbon Steel Motor Support Frame and Fan Panels; Hinged & Removable Hood; Removable Birdscreen							
Certified Options Summary: Tall Base; Safety Guards; Curb Cap Stripping; Insect Screen Base; Extended Lube Lines; Disconnect Switches; End Switches; Gravity Dampers; 1-point wiring							
Mounting Configuration: Base mounted - rigid on Roof Curb up to 42" tall Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2022		Seismic Certification Limits:			$S_{DS}= 1.90\text{ g}\quad z/h=1.0$ $S_{DS}= 1.90\text{ g}\quad z/h=0.0$		$I_P= 1.5$
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
RE2	RE2-18	48.0	51.0	42.0	250	UUT11: 221 lbs. w/o curb	11
	RE2-20	54.0	51.0	45.0	260		Interp.
	RE2-24	66.0	63.0	47.0	275		Interp.
	RE2-30	78.0	87.0	52.0	310		Interp.
	RE2-36	94.0	87.0	57.0	525		Interp.
	RE2-42	93.0	99.0	60.0	750		Interp.
	RE2-48	112.0	111.0	61.0	1,090		Interp.
	RE2-54	124.0	123.0	67.0	1,298		Interp.
RS2	RS2-18	48.0	51.0	41.0	250		Interp.
	RS2-20	54.0	51.0	45.0	260		Interp.
	RS2-24	66.0	63.0	47.0	275		Interp.
	RS2-30	78.0	87.0	52.0	310		Interp.
	RS2-36	94.0	87.0	57.0	525		Interp.
	RS2-42	93.0	99.0	60.0	750		Interp.
	RS2-48	112.0	111.0	61.0	1,090		Interp.
	RS2-54	124.0	123.0	67.0	1,298		Interp.
RCS3	RCS3-20	54.0	51.0	45.0	260		Interp.
	RCS3-24	66.0	63.0	47.0	275		Interp.
	RCS3-30	78.0	87.0	52.0	310		Interp.
	RCS3-36	94.0	87.0	57.0	525		Interp.
	RCS3-42	93.0	99.0	60.0	750		Interp.
	RCS3-48	112.0	111.0	61.0	1,090		Interp.
	RCS3-54	124.0	123.0	67.0	1,298		Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)						TABLE 6	
Model Line: RBE, RBS, RBF, RBCE, RBCS, RBCF, RPBR							
Certified Product Construction Summary: Belt Drive: Construction Levels I, II, & III; Carbon Steel & Aluminum Fan Blades; Type L & H Propellers; Heavy-Guage Carbon Steel Drive Frame and Fan Panels; Aluminum Housing; Hinged & Removable Hood; Removable Birdscreen							
Certified Options Summary: Tall Base; Safety Guards; Aluminum Housing; Curb Cap Stripping; Insect Screen Base; Extended Lube Lines; Disconnect Switches; End Switches; Gravity Dampers; 1-point wiring							
Mounting Configuration: Base mounted - rigid on up to 42" curb Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2022		Seismic Certification Limits:			$S_{DS}= 1.90\text{ g}\quad z/h=1.0$ $S_{DS}= 1.90\text{ g}\quad z/h=0.0$		$I_p= 1.5$
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
RBE	RBE-1H20	54.0	51.0	45.0	325		Interp.
	RBE-1H24	66.0	63.0	47.0	375		Interp.
	RBE-1H30	78.0	87.0	52.0	425		Interp.
	RBE-1H36	94.0	87.0	57.0	525		Interp.
	RBE-1L20	54.0	51.0	45.0	325		Interp.
	RBE-1L24	66.0	63.0	47.0	350		Interp.
	RBE-1L30	78.0	87.0	52.0	375		Interp.
	RBE-1L36	94.0	87.0	57.0	525		Interp.
	RBE-2H20	54.0	51.0	45.0	350		Interp.
	RBE-2H24	66.0	63.0	47.0	410		Interp.
	RBE-2H30	78.0	87.0	52.0	498		Interp.
	RBE-2H36	94.0	87.0	57.0	625		Interp.
	RBE-2H42	93.0	99.0	60.0	725		Interp.
	RBE-2H48	112.0	111.0	61.0	860		Interp.
	RBE-2H54	124.0	123.0	67.0	1,025		Interp.
	RBE-2H60	136.0	135.0	68.0	1,180		Interp.
	RBE-2L20	54.0	51.0	45.0	350		Interp.
	RBE-2L24	66.0	63.0	47.0	410		Interp.
	RBE-2L30	78.0	87.0	52.0	498		Interp.
	RBE-2L36	94.0	87.0	57.0	625		Interp.
	RBE-3H24	66.0	63.0	47.0	450		Interp.
	RBE-3H30	78.0	87.0	52.0	510		Interp.
	RBE-3H36	94.0	87.0	57.0	630		Interp.
	RBE-3H42	93.0	99.0	60.0	740		Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)						TABLE 6	
Model Line: RBE, RBS, RBF, RBCE, RBCS, RBCF, RPBR							
Certified Product Construction Summary: Belt Drive: Construction Levels I, II, & III; Carbon Steel & Aluminum Fan Blades; Type L & H Propellers; Heavy-Guage Carbon Steel Drive Frame and Fan Panels; Aluminum Housing; Hinged & Removable Hood; Removable Birdscreen							
Certified Options Summary: Tall Base; Safety Guards; Aluminum Housing; Curb Cap Stripping; Insect Screen Base; Extended Lube Lines; Disconnect Switches; End Switches; Gravity Dampers; 1-point wiring							
Mounting Configuration: Base mounted - rigid on up to 42" curb Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS}= 1.90\text{ g}\quad z/h=1.0$ $S_{DS}= 1.90\text{ g}\quad z/h=0.0$		$I_P= 1.5$	
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
RBE	RBE-3H48	112.0	111.0	61.0	875		Interp.
	RBE-3H54	124.0	123.0	67.0	1,150		Interp.
	RBE-3H60	136.0	135.0	68.0	1,194		Interp.
	RBE-3H72	136.0	147.0	71.0	1,216		Interp.
	RBE-3L24	66.0	63.0	47.0	450		Interp.
	RBE-3L30	78.0	87.0	52.0	510		Interp.
	RBE-3L36	94.0	87.0	57.0	630		Interp.
	RBE-3L42	93.0	99.0	60.0	740		Interp.
	RBE-3L48	112.0	111.0	61.0	875		Interp.
	RBE-3L54	124.0	123.0	67.0	1,150		Interp.
	RBE-3L60	136.0	135.0	68.0	1,194		Interp.
	RBE-3L72	136.0	136.0	53.0	1,216	UUT14: 1,365 lbs. w/ 24" curb	14
RBS	RBS-1H20	54.0	51.0	45.0	325		Interp.
	RBS-1H24	66.0	63.0	47.0	375		Interp.
	RBS-1H30	78.0	87.0	52.0	425		Interp.
	RBS-1H36	94.0	87.0	57.0	525		Interp.
	RBS-1L20	54.0	51.0	45.0	325		Interp.
	RBS-1L24	66.0	63.0	47.0	350		Interp.
	RBS-1L30	75.0	75.0	52.0	375	UUT40: 420 lbs. w/ 12" curb	40
	RBS-1L36	94.0	87.0	57.0	525		Interp.
	RBS-2H20	54.0	51.0	45.0	350		Interp.
	RBS-2H24	66.0	63.0	47.0	410		Interp.
	RBS-2H30	78.0	87.0	52.0	498		Interp.
	RBS-2H36	94.0	87.0	57.0	625		Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

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Manufacturer: Greenheck Fan Corporation (Accurex)						TABLE 6	
Model Line: RBE, RBS, RBF, RBCE, RBCS, RBCF, RPBR							
Certified Product Construction Summary: Belt Drive: Construction Levels I, II, & III; Carbon Steel & Aluminum Fan Blades; Type L & H Propellers; Heavy-Guage Carbon Steel Drive Frame and Fan Panels; Aluminum Housing; Hinged & Removable Hood; Removable Birdscreen							
Certified Options Summary: Tall Base; Safety Guards; Aluminum Housing; Curb Cap Stripping; Insect Screen Base; Extended Lube Lines; Disconnect Switches; End Switches; Gravity Dampers; 1-point wiring							
Mounting Configuration: Base mounted - rigid on up to 42" curb Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2022		Seismic Certification Limits:				$S_{DS}= 1.90\ g\ \ z/h=1.0$ $S_{DS}= 1.90\ g\ \ z/h=0.0$	$I_p= 1.5$
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
RBS	RBS-2H42	93.0	99.0	60.0	725		Interp.
	RBS-2H48	112.0	111.0	61.0	860		Interp.
	RBS-2H54	124.0	123.0	67.0	1,025		Interp.
	RBS-2H60	136.0	135.0	68.0	1,194		Interp.
	RBS-2L20	54.0	51.0	45.0	350		Interp.
	RBS-2L24	66.0	63.0	47.0	410		Interp.
	RBS-2L30	78.0	87.0	52.0	498		Interp.
	RBS-2L36	94.0	87.0	57.0	625		Interp.
	RBS-3H24	66.0	63.0	47.0	450		Interp.
	RBS-3H30	78.0	87.0	52.0	510		Interp.
	RBS-3H36	94.0	87.0	57.0	630		Interp.
	RBS-3H42	93.0	99.0	60.0	740		Interp.
	RBS-3H48	112.0	111.0	61.0	875		Interp.
	RBS-3H54	124.0	123.0	67.0	1,150		Interp.
	RBS-3H60	136.0	135.0	68.0	1,194		Interp.
	RBS-3H72	136.0	147.0	71.0	1,216		Interp.
	RBS-3L24	66.0	63.0	47.0	450		Interp.
	RBS-3L30	78.0	87.0	52.0	510		Interp.
	RBS-3L36	94.0	87.0	57.0	630		Interp.
	RBS-3L42	93.0	99.0	60.0	740		Interp.
	RBS-3L48	112.0	111.0	61.0	875		Interp.
	RBS-3L54	124.0	123.0	67.0	1,150		Interp.
	RBS-3L60	136.0	135.0	68.0	1,194		Interp.
	RBS-3L72	136.0	147.0	71.0	1,216		Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

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Manufacturer: Greenheck Fan Corporation (Accurex)						TABLE 6	
Model Line: RBE, RBS, RBF, RBCE, RBCS, RBCF, RPBR							
Certified Product Construction Summary: Belt Drive: Construction Levels I, II, & III; Carbon Steel & Aluminum Fan Blades; Type L & H Propellers; Heavy-Guage Carbon Steel Drive Frame and Fan Panels; Aluminum Housing; Hinged & Removable Hood; Removable Birdscreen							
Certified Options Summary: Tall Base; Safety Guards; Aluminum Housing; Curb Cap Stripping; Insect Screen Base; Extended Lube Lines; Disconnect Switches; End Switches; Gravity Dampers; 1-point wiring							
Mounting Configuration: Base mounted - rigid on up to 42" curb Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS}= 1.90\text{ g}$ $z/h=1.0$ $S_{DS}= 1.90\text{ g}$ $z/h=0.0$		$I_P= 1.5$	
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
RBF	RBF-1H20	51.0	59.0	27.0	425		Interp.
	RBF-1H24	66.0	63.0	47.0	450		Interp.
	RBF-1H30	78.0	87.0	52.0	525		Interp.
	RBF-1H36	94.0	87.0	57.0	675	UUT36: 835 lbs. w/ 42" curb	36
	RBF-1L20	54.0	51.0	45.0	425		Interp.
	RBF-1L24	66.0	63.0	47.0	450		Interp.
	RBF-1L30	78.0	87.0	52.0	525		Interp.
	RBF-1L36	94.0	87.0	57.0	675		Interp.
	RBF-2H20	54.0	51.0	45.0	425		Interp.
	RBF-2H24	66.0	63.0	47.0	450		Interp.
	RBF-2H30	78.0	87.0	52.0	525		Interp.
	RBF-2H36	94.0	87.0	57.0	675		Interp.
	RBF-2H42	93.0	99.0	60.0	825		Interp.
	RBF-2H48	112.0	111.0	61.0	910		Interp.
	RBF-2H54	124.0	123.0	67.0	1,160		Interp.
	RBF-2H60	136.0	135.0	68.0	1,194		Interp.
	RBF-2L20	54.0	51.0	45.0	425		Interp.
	RBF-2L24	66.0	63.0	47.0	450		Interp.
	RBF-2L30	78.0	87.0	52.0	525		Interp.
	RBF-2L36	94.0	87.0	57.0	675	UUT35: 835 lbs. w/ 42" curb	35
	RBF-3H24	66.0	63.0	47.0	425		Interp.
	RBF-3H30	78.0	87.0	52.0	525		Interp.
	RBF-3H36	94.0	87.0	57.0	675		Interp.
	RBF-3H42	93.0	99.0	60.0	825		Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)						TABLE 6	
Model Line: RBE, RBS, RBF, RBCE, RBCS, RBCF, RPBR							
Certified Product Construction Summary: Belt Drive: Construction Levels I, II, & III; Carbon Steel & Aluminum Fan Blades; Type L & H Propellers; Heavy-Guage Carbon Steel Drive Frame and Fan Panels; Aluminum Housing; Hinged & Removable Hood; Removable Birdscreen							
Certified Options Summary: Tall Base; Safety Guards; Aluminum Housing; Curb Cap Stripping; Insect Screen Base; Extended Lube Lines; Disconnect Switches; End Switches; Gravity Dampers; 1-point wiring							
Mounting Configuration: Base mounted - rigid on up to 42" curb Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS}= 1.90\text{ g}$ $z/h=1.0$ $S_{DS}= 1.90\text{ g}$ $z/h=0.0$		$I_p= 1.5$	
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
RBF	RBF-3H48	112.0	111.0	61.0	875		Interp.
	RBF-3H54	124.0	123.0	67.0	1,150		Interp.
	RBF-3H60	136.0	135.0	68.0	1,194		Interp.
	RBF-3H72	136.0	147.0	71.0	1,216		Interp.
	RBF-3L24	66.0	63.0	47.0	425		Interp.
	RBF-3L30	78.0	87.0	52.0	525		Interp.
	RBF-3L36	94.0	87.0	57.0	675		Interp.
	RBF-3L42	93.0	99.0	60.0	825		Interp.
	RBF-3L48	112.0	111.0	61.0	875		Interp.
	RBF-3L54	124.0	123.0	67.0	1,150		Interp.
	RBF-3L60	136.0	135.0	68.0	1,194		Interp.
	RBF-3L72	136.0	147.0	71.0	1,216		Interp.
RBCE	RBCE-3H24	66.0	63.0	47.0	425		Interp.
	RBCE-3H30	78.0	87.0	52.0	525		Interp.
	RBCE-3H36	94.0	87.0	57.0	675		Interp.
	RBCE-3H42	93.0	99.0	60.0	825		Interp.
	RBCE-3H48	112.0	111.0	61.0	875		Interp.
	RBCE-3H54	124.0	123.0	67.0	1,150		Interp.
	RBCE-3H60	136.0	135.0	68.0	1,194		Interp.
	RBCE-3H72	136.0	147.0	71.0	1,216		Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)						TABLE 6	
Model Line: RBE, RBS, RBF, RBCE, RBCS, RBCF, RPBR							
Certified Product Construction Summary: Belt Drive: Construction Levels I, II, & III; Carbon Steel & Aluminum Fan Blades; Type L & H Propellers; Heavy-Guage Carbon Steel Drive Frame and Fan Panels; Aluminum Housing; Hinged & Removable Hood; Removable Birdscreen							
Certified Options Summary: Tall Base; Safety Guards; Aluminum Housing; Curb Cap Stripping; Insect Screen Base; Extended Lube Lines; Disconnect Switches; End Switches; Gravity Dampers; 1-point wiring							
Mounting Configuration: Base mounted - rigid on up to 42" curb Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2022		Seismic Certification Limits:			$S_{DS}= 1.90\text{ g}\quad z/h=1.0$ $S_{DS}= 1.90\text{ g}\quad z/h=0.0$		$I_p= 1.5$
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
RBCS	RBCS-3H24	66.0	63.0	47.0	425		Interp.
	RBCS-3H30	78.0	87.0	52.0	525		Interp.
	RBCS-3H36	94.0	87.0	57.0	675		Interp.
	RBCS-3H42	93.0	99.0	60.0	825		Interp.
	RBCS-3H48	112.0	111.0	61.0	875		Interp.
	RBCS-3H54	124.0	123.0	67.0	1,150		Interp.
	RBCS-3H60	136.0	135.0	68.0	1,194		Interp.
	RBCS-3H72	136.0	147.0	71.0	1,216		Interp.
RPBR	RPBR-24	66.0	63.0	47.0	425		Interp.
	RPBR-30	78.0	87.0	52.0	525		Interp.
	RPBR-36	94.0	87.0	57.0	675		Interp.
	RPBR-42	93.0	99.0	60.0	825		Interp.
	RPBR-48	112.0	111.0	61.0	875		Interp.
	RPBR-54	124.0	123.0	67.0	1,150		Interp.
	RPBR-60	136.0	135.0	68.0	1,194		Interp.
	RPBR-72	136.0	147.0	71.0	1,216		Interp.
RBCF	RBCF-3H24	66.0	63.0	47.0	425		Interp.
	RBCF-3H30	78.0	87.0	52.0	525		Interp.
	RBCF-3H36	94.0	87.0	57.0	675		Interp.
	RBCF-3H42	93.0	99.0	60.0	825		Interp.
	RBCF-3H48	112.0	111.0	61.0	875		Interp.
	RBCF-3H54	124.0	123.0	67.0	1,150		Interp.
	RBCF-3H60	136.0	135.0	68.0	1,194		Interp.
	RBCF-3H72	136.0	147.0	71.0	1,216	UUT34: 1,512 lbs. w/ 42" curb	34

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)						TABLE 7	
Model Line: RBUMO							
Certified Product Construction Summary: Belt Drive; Construction Levels I, II, & III; Carbon Steel & Aluminum Fan Blades; Type L & H Propellers; Heavy-Gauge Carbon Steel Construction; Curb Cap; Drive Frame; Removable Windband; Removable Motor Cover							
Certified Options Summary: Inlet & Outlet Guard; Aluminum & Steel Gravity Dampers; Steel Butterfly Dampers; Fusible Link & Motorized Damper Lifters; Disconnect Switches							
Mounting Configuration: Base mounted - rigid on up to 42" curb Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2022		Seismic Certification Limits:			$S_{DS}= 1.90\text{ g}$ $z/h=1.0$ $S_{DS}= 1.90\text{ g}$ $z/h=0.0$		$I_p= 1.5$
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
RBUMO	RBUMO-1H20	30.0	46.0	44.0	285		Interp.
	RBUMO-1H24	34.0	50.0	46.0	321		Interp.
	RBUMO-1H30	40.0	56.0	52.0	364		Interp.
	RBUMO-1H36	46.0	64.0	60.0	424		Interp.
	RBUMO-1L20	30.0	46.0	44.0	285		Interp.
	RBUMO-1L24	34.0	50.0	46.0	321		Interp.
	RBUMO-1L30	40.0	56.0	52.0	364		Interp.
	RBUMO-1L36	46.0	64.0	60.0	414		Interp.
	RBUMO-2H20	30.0	46.0	44.0	297		Interp.
	RBUMO-2H24	34.0	50.0	46.0	338		Interp.
	RBUMO-2H30	40.0	56.0	52.0	396		Interp.
	RBUMO-2H36	46.0	64.0	60.0	426		Interp.
	RBUMO-2H42	52.0	70.0	65.0	443		Interp.
	RBUMO-2H48	58.0	76.0	69.0	432		Interp.
	RBUMO-2H54	66.0	66.0	76.0	575	UUT33: 812 lbs. w/ 42" curb	33
	RBUMO-2L20	30.0	46.0	44.0	297		Interp.
	RBUMO-2L24	34.0	50.0	46.0	338		Interp.
	RBUMO-2L30	40.0	56.0	52.0	396		Interp.
	RBUMO-2L36	46.0	64.0	60.0	426		Interp.
	RBUMO-2L42	52.0	70.0	65.0	443		Interp.
	RBUMO-2L48	58.0	76.0	69.0	432		Interp.
	RBUMO-3H24	34.0	50.0	46.0	343		Interp.
	RBUMO-3H30	40.0	56.0	52.0	451		Interp.
	RBUMO-3H36	46.0	64.0	60.0	547		Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

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Manufacturer: Greenheck Fan Corporation (Accu

TABLE 9

SQ/BSQ

BSQ - 120 HP - VG/5/A

MODEL CONFIGURATION

BSQ - Belt Drive Inline Exhaust

SQ - Direct Drive Inline Exhaust

FAN SIZE

60 through 420

PRESSURE LEVEL (Belt Drive Only)

HP - High Pressure Wheel

VG = Vari-Green®
(Direct Drive only)

MOTOR HP (Belt Drive only)

6 = 1/6	7 = 3/4	30 = 3
4 = 1/4	10 = 1	50 = 5
3 = 1/3	15 = 1 1/2	75 = 7 1/2
5 = 1/2	20 = 2	100 = 10

MOTOR RPM (Direct Drive only)

A = 1725	D = 1550
B = 1140	E = 1050
C = 860	G = 1300

R

R E 2 - 24 - 6 20 - B 7

R - Fabricated Prop
RC - Cast Prop

E - Exhaust
S - Supply

Construction Level 2 or 3

Fan Size

No. of Blades

Motor HP**

4 = 1/4	10 = 1	50 = 5
3 = 1/6	15 = 1 1/2	75 = 7 1/2
5 = 1/5	20 = 2	100 = 10
7 = 1/3	30 = 3	150 = 15

Motor RPM*

A = 1750 C = 860 F = 860
B = 1160 D = 690

Blade Pitch

Reversible Model Number Code

RP D R F - 24 - 4 17 - A 7

Propeller Roof Fan

Direct Drive

Reversible

Filtered (Optional)

Propeller Diameter

Motor HP**, see list above

Motor RPM*, see list above

Blade Pitch

No. of Blades

RB E - 2 L 24 - 7

Hooded Roof Propeller
Belt Drive

RB - Fabricated Prop
RBC - Cast Prop

(Level 3 only)

E - Exhaust

S - Supply

F - Filtered Supply

Level of Construction 1, 2, 3

Motor HP**

4 = 1/4	15 = 1 1/2	75 = 7 1/2
3 = 1/6	20 = 2	100 = 10
5 = 1/5	30 = 3	150 = 15
7 = 1/3	50 = 5	200 = 20
10 = 1		

Fan Size

Propeller Type

L - Low

H - High

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Manufacturer: Greenheck Fan Corporation (Accu		TABLE 9
R-Continued		
Reversible Model Number Code		
RP B R F - 24 - 5		
Reversible Propeller Roof Fan		Motor HP** see list above
Belt Drive		Propeller Diameter
Reversible		Filtered (Optional)
RBUM0		
RBU MO - 2 H 36 - 10		
Upblast Propeller Roof Fan		Motor Horsepower
Motor out of Airstream		4 = 1/4 20 = 2
Level of Construction 1, 2, 3		3 = 1/3 30 = 3
Propeller Type		5 = 1/2 50 = 5
L-Low		7 = 3/4 75 = 7 1/2
H-High		10 = 1 100 = 10
Fan Size		15 = 1 1/2 150 = 15
RSF & RSFP		
RSF P - 90 - 10		
Model: RSF or RSFP	Size: 90-200	Motor Horsepower

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)		Table Description: Fan Wheels (Base Mounted - Isolated)			TABLE 10.1
Model Line: SQ, XID, BSQ, XIB					
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS} = 1.90\text{ g}$ $z/h = 1.0$ $S_{DS} = 1.90\text{ g}$ $z/h = 0.0$	$I_P = 1.5$
Component Type	Manufacturer	Model	Description	Notes	UUT
Fan Wheels	Greenheck	60	Composite, Backward Curved		Interp.
		70	Composite, Backward Curved		Interp.
		80	Composite, Backward Curved		Interp.
		90	Composite, Backward Curved		Interp.
		95	Composite, Backward Curved		44
		60	Riveted Al., Backward Curved		Interp.
		65	Riveted Al., Backward Curved		Interp.
		70	Riveted Al., Backward Curved		Interp.
		75	Riveted Al., Backward Curved		Interp.
		80	Riveted Al., Backward Curved		Interp.
		85	Riveted Al., Backward Curved		Interp.
		90	Riveted Al., Backward Curved		Interp.
		95	Riveted Al., Backward Curved		25
		97	Welded Al., Backward Inclined		Interp.
		98	Welded Al., Backward Inclined		Interp.
		99	Welded Al., Backward Inclined		Interp.
		100	Welded Al., Backward Inclined		Interp.
		120	Welded Al., Backward Inclined		Interp.
		130	Welded Al., Backward Inclined		Interp.
		130HP	Welded Al., Backward Inclined		Interp.
		140	Welded Al., Backward Inclined		Interp.
		140HP	Welded Al., Backward Inclined		Interp.
		160	Welded Al., Backward Inclined		Interp.

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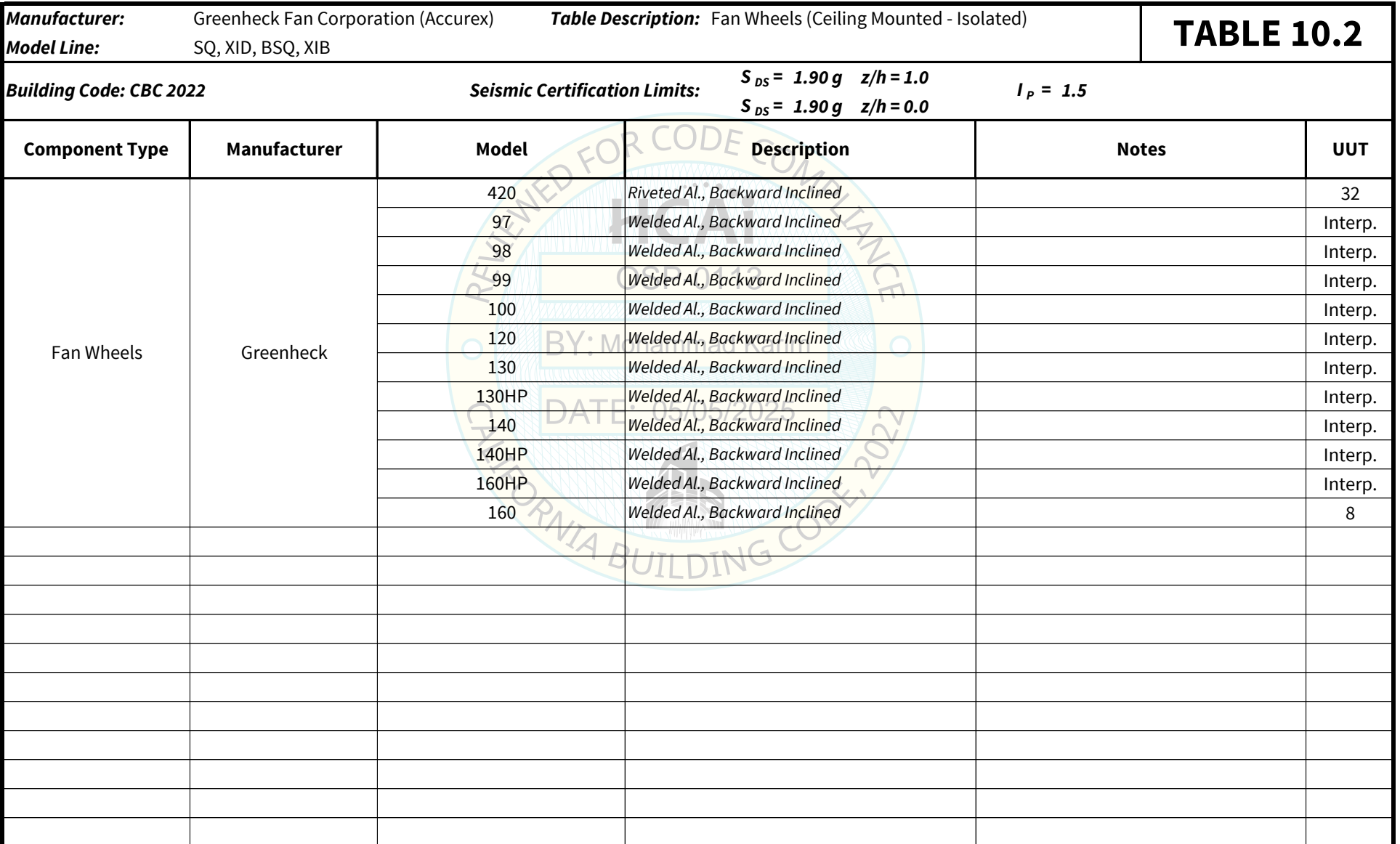


Manufacturer: Greenheck Fan Corporation (Accurex)		Table Description: Fan Wheels (Ceiling Mounted - Isolated)			TABLE 10.2
Model Line: SQ, XID, BSQ, XIB					
Building Code: CBC 2022		Seismic Certification Limits: $S_{DS} = 1.90g$ $z/h = 1.0$ $S_{DS} = 1.90g$ $z/h = 0.0$			$I_P = 1.5$
Component Type	Manufacturer	Model	Description	Notes	UUT
Fan Wheels	Greenheck	60	Composite, Backward Curved		Extrap.
		70	Composite, Backward Curved		Extrap.
		80	Composite, Backward Curved		Extrap.
		90	Composite, Backward Curved		Extrap.
		95	Composite, Backward Curved		45
		60	Riveted Al., Backward Curved		29
		65	Riveted Al., Backward Curved		Interp.
		70	Riveted Al., Backward Curved		31
		75	Riveted Al., Backward Curved		Interp.
		80	Riveted Al., Backward Curved		Interp.
		85	Riveted Al., Backward Curved		Interp.
		90	Riveted Al., Backward Curved		Interp.
		95	Riveted Al., Backward Curved		30
		180	Riveted Al., Backward Inclined		Interp.
		180HP	Riveted Al., Backward Inclined		Interp.
		200	Riveted Al., Backward Inclined		Interp.
		200HP	Riveted Al., Backward Inclined		Interp.
		240	Riveted Al., Backward Inclined		Interp.
		240HP	Riveted Al., Backward Inclined		Interp.
		300	Riveted Al., Backward Inclined		Interp.
		300HP	Riveted Al., Backward Inclined		Interp.
		360	Riveted Al., Backward Inclined		Interp.
		360HP	Riveted Al., Backward Inclined		Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)		Table Description: Fan Propellers (Curb Mounted)			TABLE 11
Model Line: R & RBUMO					
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS} = 1.90\text{ g}$ $z/h = 1.0$ $S_{DS} = 1.90\text{ g}$ $z/h = 0.0$	$I_P = 1.5$
Component Type	Manufacturer	Model	Description	Notes	UUT
Carbon Steel Fan Propellers	Greenheck	20" SBR	CS; Straight Blade, Riveted, No Gussets	4.5 lbs.	Interp.
		24" SBR	CS; Straight Blade, Riveted, No Gussets	4.9 lbs.	Interp.
		30" SBR	CS; Straight Blade, Riveted, No Gussets	9 lbs.	Interp.
		36" SBR	CS; Straight Blade, Riveted, No Gussets	11 lbs.	36
		20" CBR	CS; Curved Blade, Riveted, No Gussets	5 lbs.	Interp.
		24" CBR	CS; Curved Blade, Riveted, No Gussets	7.5 lbs.	Interp.
		30" CBR	CS; Curved Blade, Riveted, No Gussets	9.5 lbs.	40
		36" CBR	CS; Curved Blade, Riveted, No Gussets	14 lbs.	Interp.
		36" SBR-G	CS; Straight Blade, Riveted with Gussets	15.5 lbs.	Interp.
		42" SBR-G	CS; Straight Blade, Riveted with Gussets	28 lbs.	Interp.
		48" SBR-G	CS; Straight Blade, Riveted with Gussets	35 lbs.	Interp.
		54" SBR-G	CS; Straight Blade, Riveted with Gussets	46 lbs.	33
		30" CBR-G	CS; Curved Blade, Riveted with Gussets	14 lbs.	Interp.
		36" CBR-G	CS; Curved Blade, Riveted with Gussets	20 lbs.	35
		42" CBR-G	CS; Curved Blade, Riveted with Gussets	35 lbs.	Interp.
		48" CBR-G	CS; Curved Blade, Riveted with Gussets	46 lbs.	Interp.
		24" CBW-G	CS; Curved Blade, Welded with Gussets	10.5 lbs.	Interp.
		30" CBW-G	CS; Curved Blade, Welded with Gussets	17 lbs.	Interp.
		36" CBW-G	CS; Curved Blade, Welded with Gussets	25 lbs.	Interp.
		42" CBW-G	CS; Curved Blade, Welded with Gussets	40 lbs.	Interp.
		48" CBW-G	CS; Curved Blade, Welded with Gussets	56 lbs.	Interp.
		54" CBW-G	CS; Curved Blade, Welded with Gussets	71.5 lbs.	Interp.
		60" CBW-G	CS; Curved Blade, Welded with Gussets	126 lbs.	16

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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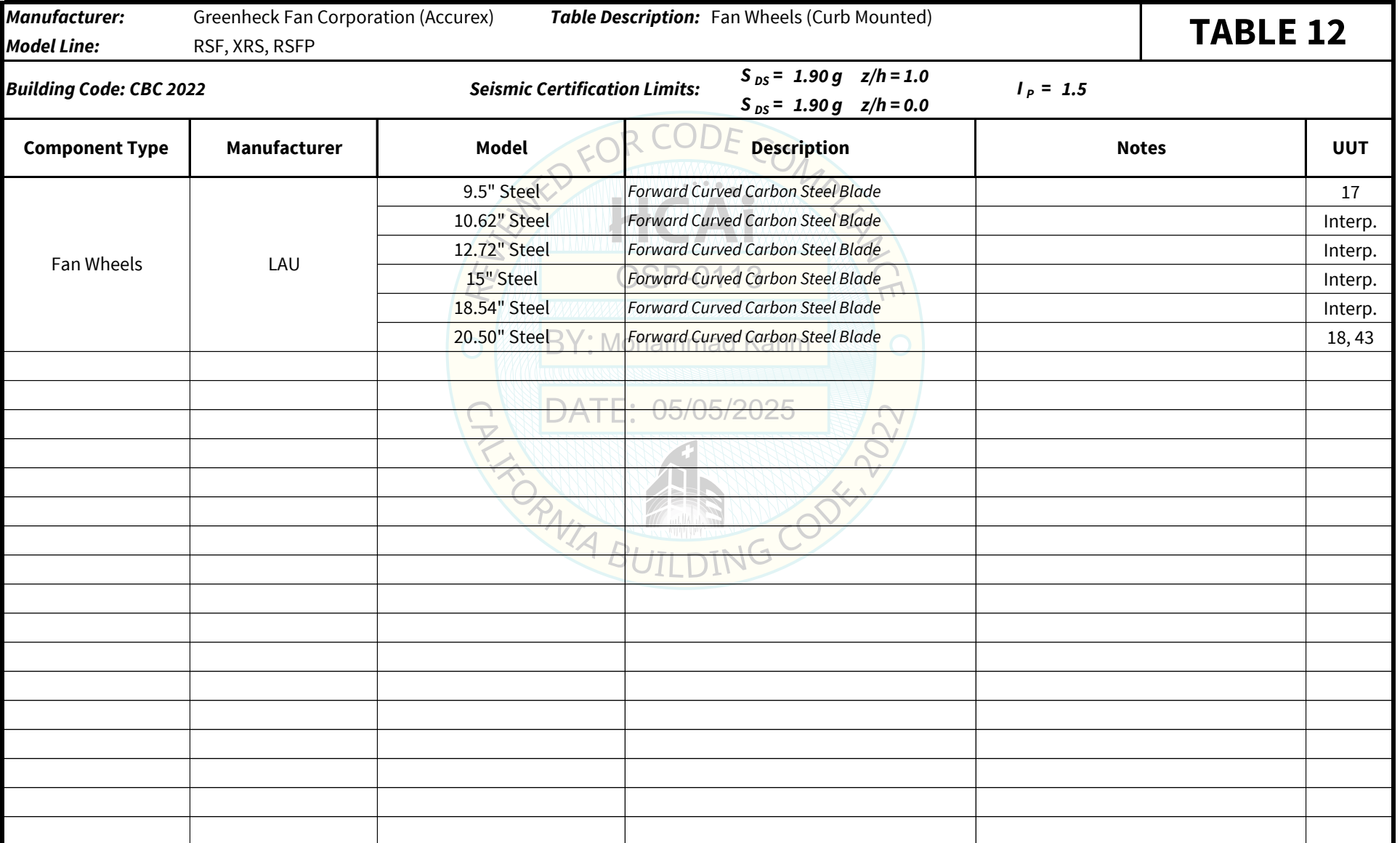


Manufacturer: Greenheck Fan Corporation (Accurex)		Table Description: Fan Propellers (Curb Mounted)			TABLE 11
Model Line: R & RBUMO					
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS} = 1.90\text{ g}$ $z/h = 1.0$ $S_{DS} = 1.90\text{ g}$ $z/h = 0.0$	$I_P = 1.5$
Component Type	Manufacturer	Model	Description	Notes	UUT
Carbon Steel Fan Propellers	Greenheck	18" SBW-G	CS; Straight Blade, Welded with Gussets	6 lbs.	11
		20" SBW-G	CS; Straight Blade, Welded with Gussets	6.5 lbs.	Interp.
		24" SBW-G	CS; Straight Blade, Welded with Gussets	9 lbs.	Interp.
		30" SBW-G	CS; Straight Blade, Welded with Gussets	13.5 lbs.	Interp.
		36" SBW-G	CS; Straight Blade, Welded with Gussets	20.5 lbs.	Interp.
		42" SBW-G	CS; Straight Blade, Welded with Gussets	35 lbs.	Interp.
		48" SBW-G	CS; Straight Blade, Welded with Gussets	46 lbs.	Interp.
		54" SBW-G	CS; Straight Blade, Welded with Gussets	61 lbs.	Interp.
		60" SBW-G	CS; Straight Blade, Welded with Gussets	98 lbs.	Interp.
		72" SBW-G	CS; Straight Blade, Welded with Gussets	120 lbs.	14
Cast Aluminum Fan Propellers	Greenheck	20" Cast Al.	Aluminum Airfoil Blade	5 lbs.	Interp.
		24" Cast Al.	Aluminum Airfoil Blade	7 lbs.	Interp.
		30" Cast Al.	Aluminum Airfoil Blade	7.5 lbs.	Interp.
		36" Cast Al.	Aluminum Airfoil Blade	8 lbs.	Interp.
		42" Cast Al.	Aluminum Airfoil Blade	11.5 lbs.	Interp.
		48" Cast Al.	Aluminum Airfoil Blade	12 lbs.	Interp.
		54" Cast Al.	Aluminum Airfoil Blade	57.5 lbs.	42
		60" Cast Al.	Aluminum Airfoil Blade	82 lbs.	Interp.
		72" Cast Al.	Aluminum Airfoil Blade	91 lbs.	34

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TRU PROJECT NO. 1900532, Rev. 1



SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)		Table Description: Filters & Filter Boxes (Base Mounted - Isolated)			TABLE 13.1
Model Line: SQ, XID, BSQ, XIB					
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS} = 1.90\text{ g}$ $z/h = 1.0$ $S_{DS} = 1.90\text{ g}$ $z/h = 0.0$	$I_P = 1.5$
Component Type	Manufacturer	Model	Description	Notes	UUT
Filter Box (BSQ)	Greenheck	Fan Size 70 - 90	Carbon Steel		Interp.
		Fan Size 100	Carbon Steel		Interp.
		Fan Size 120	Carbon Steel		Interp.
		Fan Size 130 - 130HP	Carbon Steel		Interp.
		Fan Size 140 - 140HP	Carbon Steel		Interp.
		Fan Size 160 - 160HP	Carbon Steel		Interp.
		Fan Size 180 - 180HP	Carbon Steel		Interp.
		Fan Size 200 - 200HP	Carbon Steel		Interp.
		Fan Size 240 - 240HP	Carbon Steel		Interp.
		Fan Size 300 - 300HP	Carbon Steel		Interp.
		Fan Size 360 - 360HP	Carbon Steel		Interp.
		Fan Size 420	Carbon Steel		28
Filters	Research Products	10 x 12, Al. 1"	Aluminum		Interp.
		10 x 12, Al. 2"	Aluminum		Interp.
		12 x 25, Al. 1"	Aluminum		Interp.
		12 x 25, Al. 2"	Aluminum		Interp.
		14 x 25, Al. 1"	Aluminum		Interp.
		14 x 25, Al. 2"	Aluminum		Interp.
		16 x 20, Al. 1"	Aluminum		Interp.
		16 x 20, Al. 2"	Aluminum		Interp.
		16 x 25, Al. 1"	Aluminum		Interp.
		16 x 25, Al. 2"	Aluminum		Interp.
		20 x 20, Al. 1"	Aluminum		Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)		Table Description: Filters & Filter Boxes (Base Mounted - Isolated)			TABLE 13.1
Model Line: SQ, XID, BSQ, XIB					
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS} = 1.90\text{ g}$ $z/h = 1.0$ $S_{DS} = 1.90\text{ g}$ $z/h = 0.0$	$I_P = 1.5$
Component Type	Manufacturer	Model	Description	Notes	UUT
Filters	Research Products	20 x 20, Al. 2"	Aluminum		Interp.
		20 x 25, Al. 1"	Aluminum		Interp.
		20 x 25, Al. 2"	Aluminum		28
	Airguard Products	10 x 12, Paper 1"	Paper		Interp.
		10 x 12, Paper 2"	Paper		Interp.
		12 x 25, Paper 1"	Paper		Interp.
		12 x 25, Paper 2"	Paper		Interp.
		14 x 25, Paper 1"	Paper		Interp.
		14 x 25, Paper 2"	Paper		Interp.
		16 x 20, Paper 1"	Paper		Interp.
		16 x 20, Paper 2"	Paper		Interp.
		16 x 25, Paper 1"	Paper		Interp.
		16 x 25, Paper 2"	Paper		Interp.
		20 x 20, Paper 1"	Paper		Interp.
		20 x 20, Paper 2"	Paper		Interp.
		20 x 25, Paper 1"	Paper		Interp.
		20 x 25, Paper 2"	Paper		28

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)		Table Description: Filters & Filter Boxes (Ceiling Mounted - Isolated)			TABLE 13.2
Model Line: SQ, XID, BSQ, XIB					
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS} = 1.90 g \quad z/h = 1.0$ $S_{DS} = 1.90 g \quad z/h = 0.0$	$I_P = 1.5$
Component Type	Manufacturer	Model	Description	Notes	UUT
Filter Box (BSQ)	Greenheck	Fan Size 70 - 90	Carbon Steel		Interp.
		Fan Size 100	Carbon Steel		Interp.
		Fan Size 120	Carbon Steel		Interp.
		Fan Size 130 - 130HP	Carbon Steel		Interp.
		Fan Size 140 - 140HP	Carbon Steel		Interp.
		Fan Size 160 - 160HP	Carbon Steel		Interp.
		Fan Size 180 - 180HP	Carbon Steel		Interp.
		Fan Size 200 - 200HP	Carbon Steel		Interp.
		Fan Size 240 - 240HP	Carbon Steel		Interp.
		Fan Size 300 - 300HP	Carbon Steel		Interp.
		Fan Size 360 - 360HP	Carbon Steel		Interp.
		Fan Size 420	Carbon Steel		32
Filters	Research Products	10 x 12, Al. 1"	Aluminum		Interp.
		10 x 12, Al. 2"	Aluminum		Interp.
		12 x 25, Al. 1"	Aluminum		Interp.
		12 x 25, Al. 2"	Aluminum		Interp.
		14 x 25, Al. 1"	Aluminum		Interp.
		14 x 25, Al. 2"	Aluminum		Interp.
		16 x 20, Al. 1"	Aluminum		Interp.
		16 x 20, Al. 2"	Aluminum		Interp.
		16 x 25, Al. 1"	Aluminum		Interp.
		16 x 25, Al. 2"	Aluminum		Interp.
		20 x 20, Al. 1"	Aluminum		Interp.

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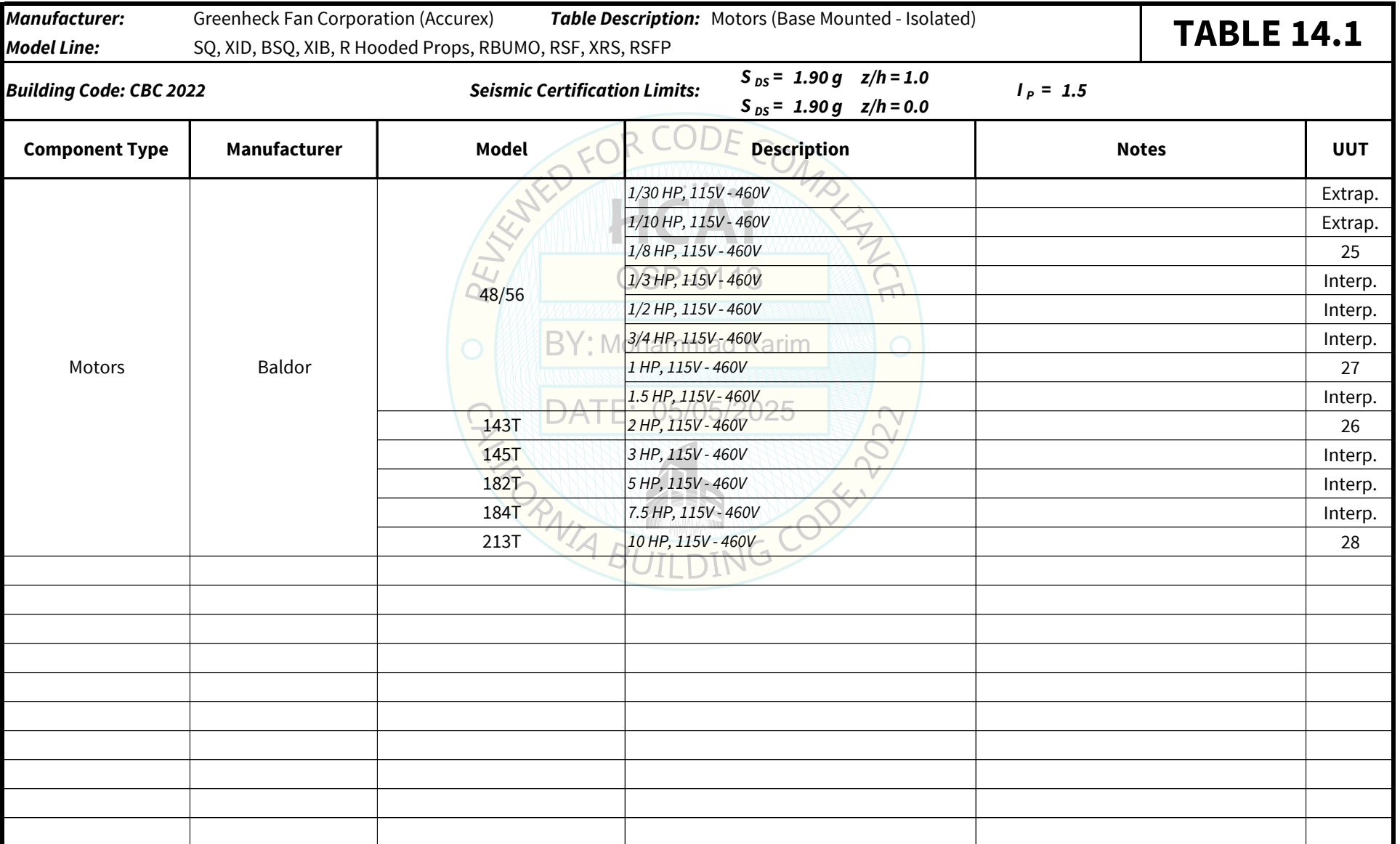


Manufacturer: Greenheck Fan Corporation (Accurex)		Table Description: Filters & Filter Boxes (Ceiling Mounted - Isolated)			TABLE 13.2
Model Line: SQ, XID, BSQ, XIB					
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS} = 1.90\text{ g}$ $z/h = 1.0$ $S_{DS} = 1.90\text{ g}$ $z/h = 0.0$	$I_p = 1.5$
Component Type	Manufacturer	Model	Description	Notes	UUT
Filters	Research Products	20 x 20, Al. 2"	Aluminum		Interp.
		20 x 25, Al. 1"	Aluminum		Interp.
		20 x 25, Al. 2"	Aluminum		32
	Airguard Products	10 x 12, Paper 1"	Paper		Interp.
		10 x 12, Paper 2"	Paper		Interp.
		12 x 25, Paper 1"	Paper		Interp.
		12 x 25, Paper 2"	Paper		Interp.
		14 x 25, Paper 1"	Paper		Interp.
		14 x 25, Paper 2"	Paper		Interp.
		16 x 20, Paper 1"	Paper		Interp.
		16 x 20, Paper 2"	Paper		Interp.
		16 x 25, Paper 1"	Paper		Interp.
		16 x 25, Paper 2"	Paper		Interp.
		20 x 20, Paper 1"	Paper		Interp.
		20 x 20, Paper 2"	Paper		Interp.
		20 x 25, Paper 1"	Paper		Interp.
		20 x 25, Paper 2"	Paper		32

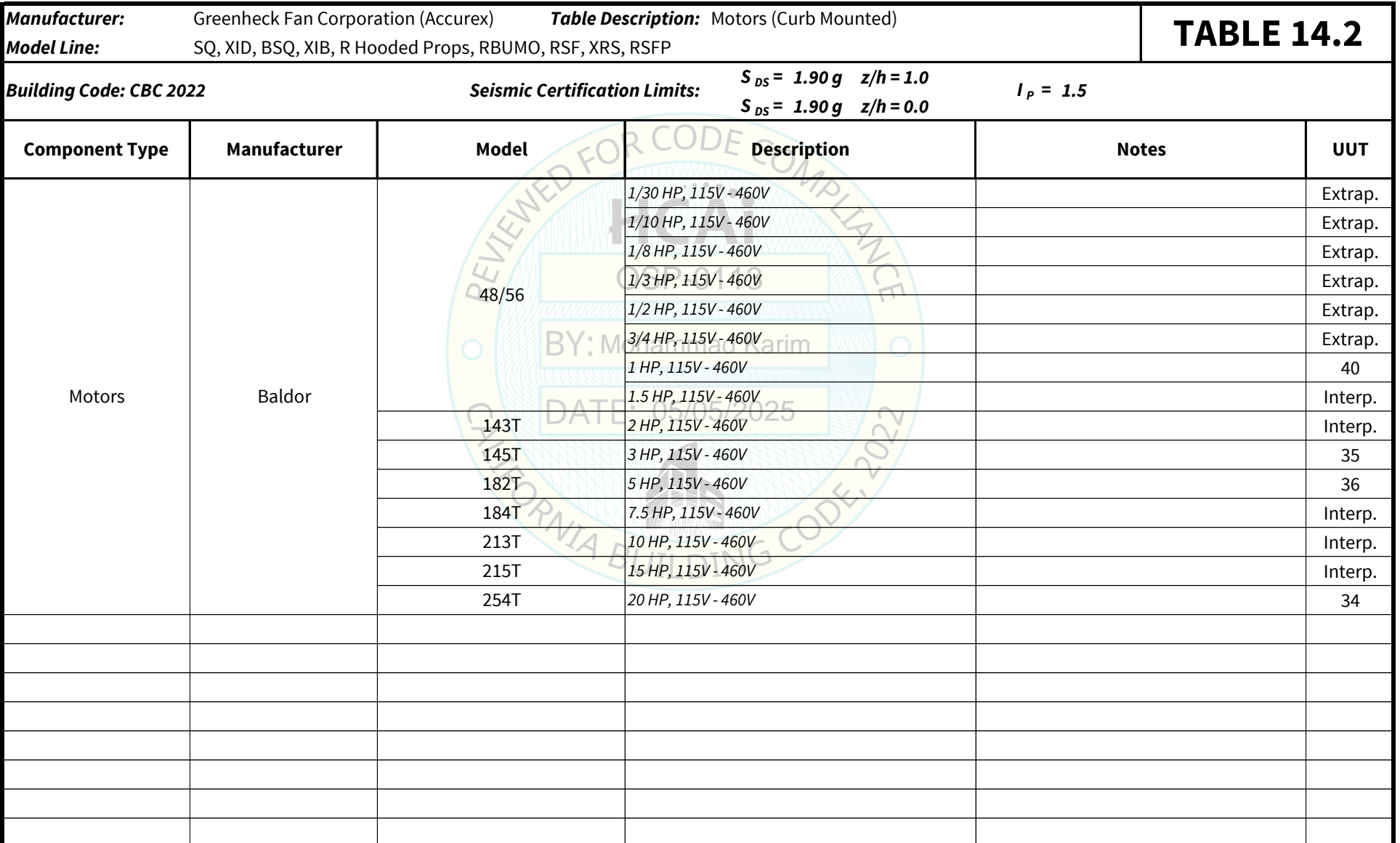
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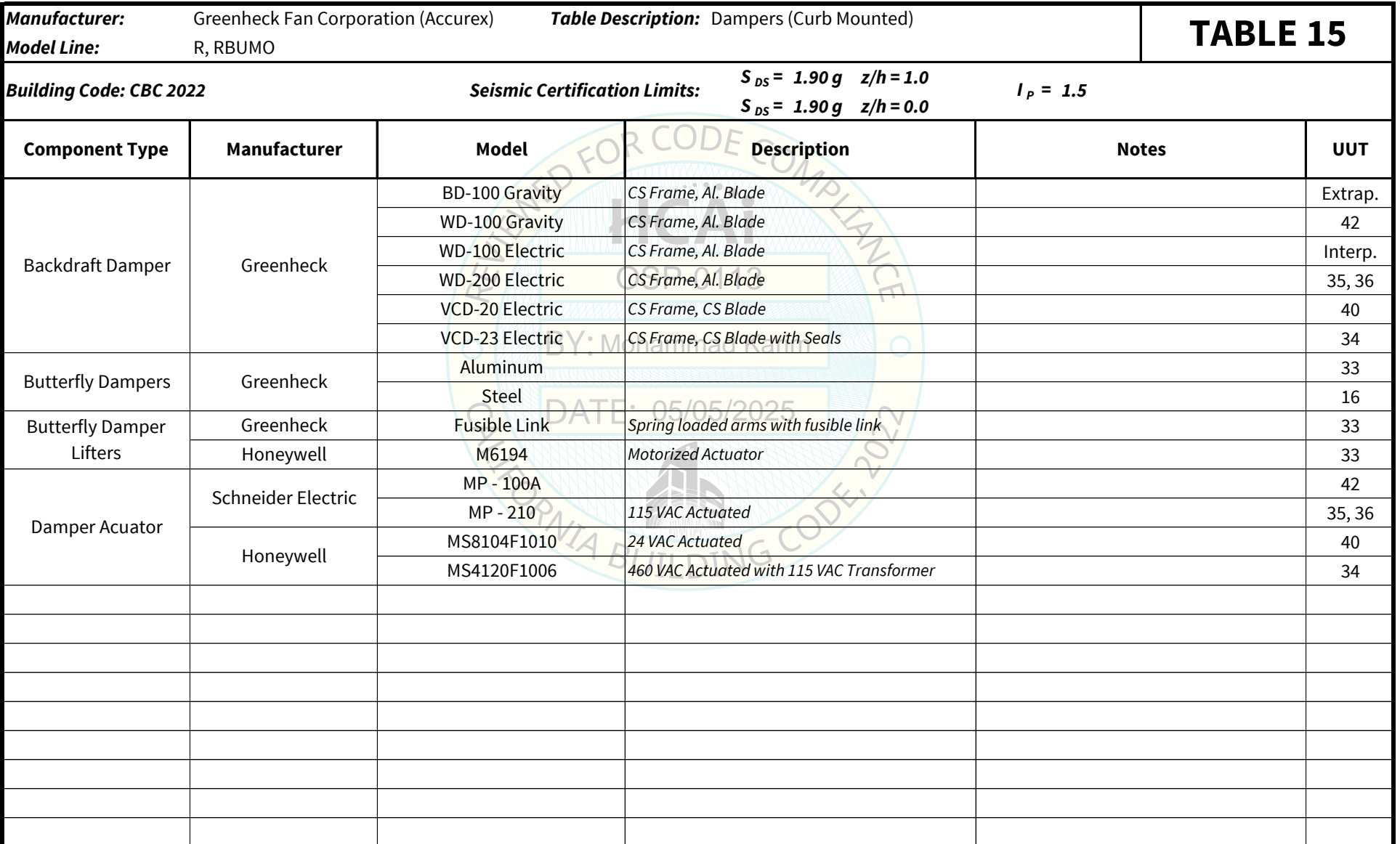
SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)		Table Description: Motors (Ceiling Mounted - Isolated)			TABLE 14.3
Model Line: SQ, XID, BSQ, XIB, R Hooded Props, RBUMO, RSF, XRS, RSFP					
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS} = 1.90\text{ g}$ $z/h = 1.0$ $S_{DS} = 1.90\text{ g}$ $z/h = 0.0$	$I_p = 1.5$
Component Type	Manufacturer	Model	Description	Notes	UUT
Motors	Baldor	48/56	1/30 HP, 115V - 460V		30
			1/10 HP, 115V - 460V		29
			1/8 HP, 115V - 460V		Interp.
			1/3 HP, 115V - 460V		Interp.
			1/2 HP, 115V - 460V		Interp.
			3/4 HP, 115V - 460V		31
			1 HP, 115V - 460V		Interp.
			1.5 HP, 115V - 460V		Interp.
		143T	2 HP, 115V - 460V		Interp.
		145T	3 HP, 115V - 460V		Interp.
		182T	5 HP, 115V - 460V		Interp.
		184T	7.5 HP, 115V - 460V		Interp.
213T	10 HP, 115V - 460V		32		

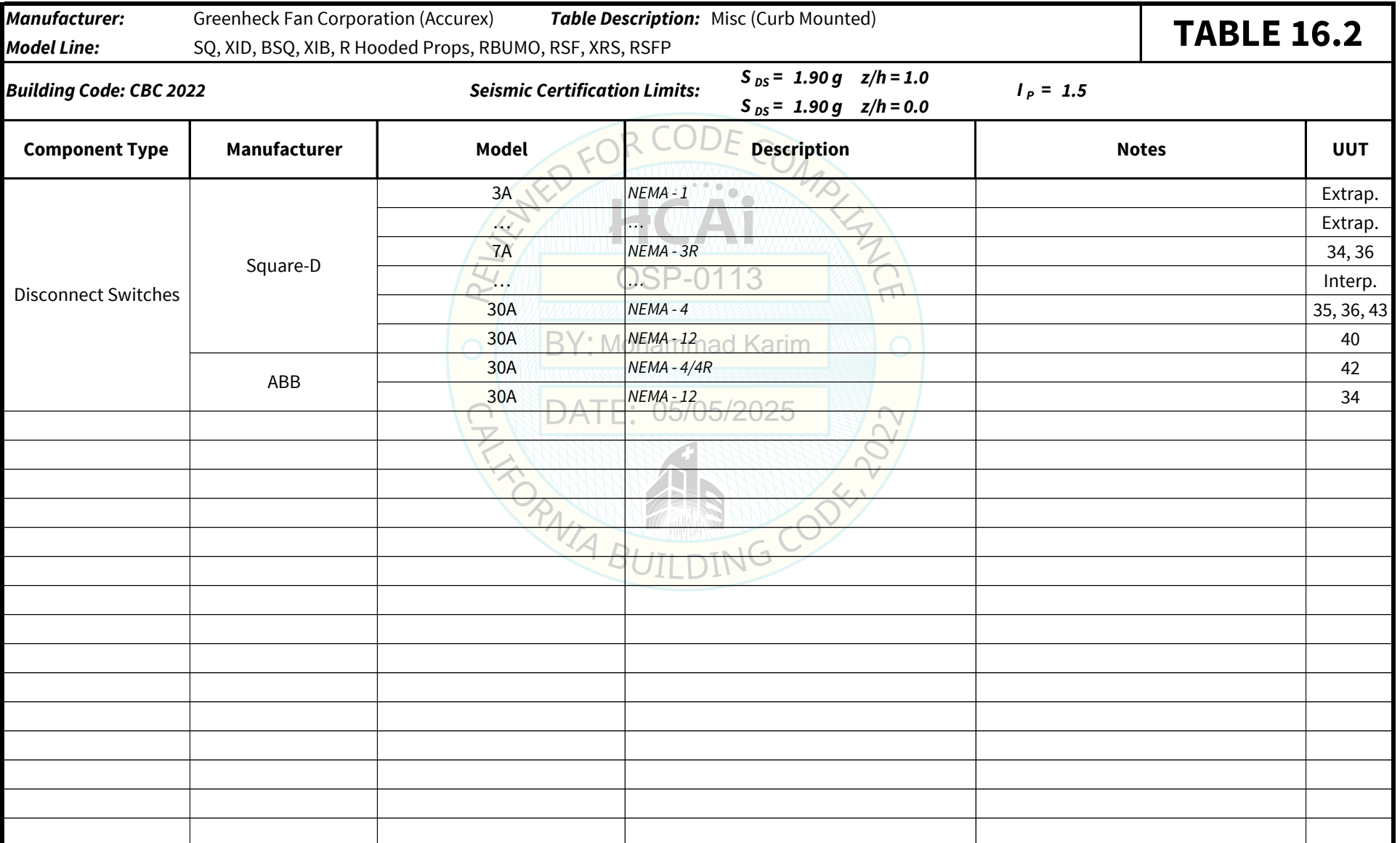
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UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)
Model Line: SQ, XID, BSQ, XIB, R Hooded Props, RBUMO, RSF, XRS, RSFP

UUT	Unit Description (mounting)	Report Number (UUT#)	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	I _p
8	SQ-160-A (ceiling mounted - isolated)	3298 (UUT08)	ANCO Engineers, Inc.	2010	Yes	1.9	1.0	1.5
11	RE2-18-421-A7 (base mounted - rigid)	3298 (UUT11)	ANCO Engineers, Inc.	2010	Yes	1.9	1.0	1.5
14	RBE-3L72-150 (base mounted - rigid)	3298 (UUT14)	ANCO Engineers, Inc.	2010	Yes	1.9	1.0	1.5
16	RBUMO-3L60-100 (base mounted - rigid)	3298 (UUT16)	ANCO Engineers, Inc.	2010	Yes	1.9	1.0	1.5
17	RSF-90-10 (base mounted - rigid)	3298 (UUT17)	ANCO Engineers, Inc.	2010	Yes	1.9	1.0	1.5
18	RSFP-200-75 (base mounted - rigid)	3298 (UUT18)	ANCO Engineers, Inc.	2010	Yes	1.9	1.0	1.5
25	SQ-95-D (base mounted - isolated)	14238, Rev. 2 (UUT25)	Environmental Testing Laboratory (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
26	SQ-160HP-VG (base mounted - isolated)	14238, Rev. 2 (UUT26)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
27	BSQ-180HP-10 (base mounted - isolated)	14238, Rev. 2 (UUT27)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
28	BSQ-420-100 (base mounted - isolated)	14238, Rev. 2 (UUT28)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
29	SQ-60-VG (ceiling mounted - isolated)	14238, Rev. 2 (UUT29)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
30	SQ-95-E (ceiling mounted - isolated)	14238, Rev. 2 (UUT30)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5

Notes:

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer: Greenheck Fan Corporation (Accurex)
Model Line: SQ, XID, BSQ, XIB, R Hooded Props, RBUMO, RSF, XRS, RSFP

UUT	Unit Description (mounting)	Report Number (UUT#)	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	I _p
31	BSQ-70-7 (ceiling mounted - isolated)	14238, Rev. 2 (UUT31)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
32	BSQ-420-100 (ceiling mounted - isolated)	14238, Rev. 2 (UUT32)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
33	RBUMO-2H54-50 (base mounted - rigid)	14238, Rev. 2 (UUT33)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
34	RBCF-3H72-200 (base mounted - rigid)	14238, Rev. 2 (UUT34)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
35	RBF-2L36-30 (base mounted - rigid)	14238, Rev. 2 (UUT35)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
36	RBF-1H36-30 (base mounted - rigid)	14238, Rev. 2 (UUT36)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
40	RBS-1L30-10 (base mounted - rigid)	14238, Rev. 2 (UUT40)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
42	RCE3-54-323-C75 (base mounted - rigid)	14238, Rev. 2 (UUT42)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
43	RSF-200-100 (base mounted - rigid)	14238, Rev. 2 (UUT43)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
44	SQ-95-D (base mounted - isolated)	15332, Rev. 1 (UUT44)	Environmental Testing Lab (ETL)	2019	Yes	2.0 3.2	1.0 0.0	1.5
45	SQ-95-D (ceiling mounted - isolated)	15332, Rev. 1 (UUT45)	Environmental Testing Lab (ETL)	2019	Yes	2.0 3.2	1.0 0.0	1.5

Notes:

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UUT8 was ceiling mounted - isolated using four (4) 1/4" Ø A307 threaded rods, four (4) Mason RW30N-X-33 isolators, and four (4) 3/32" Ø diag. steel cable braces with Mason SCB-0 clips at ends. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

TRU PROJECT NO. 1900532, Rev. 1

A custom-built aluminum enclosure for a Raspberry Pi, featuring a hinged lid and a handle, sitting on a wooden workbench.

TRU PROJECT NO. 1900532, Rev. 1



UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 16
Model Line:	RBUMO	
Model Number:	RBUMO-3L60-100	
Serial Number:	N/A	
		Test Report: 3298 (UUT16)

UUT Properties						
Weight (lbs.) ¹	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height ²	Front-Back	Side-Side	Vertical
954	72.1	102.0	92.5	6.6	6.0	8.1

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 2022	ICC-ES AC156	1.90	1.0	1.5	3.04	2.28	1.27	0.51	
		1.90	0.0						

Product Construction Summary: Test Mounting Details:

Welded Carbon Steel Wheel and Carbon Steel Fan Base.
Motor Cover. Belt Tube. Steel Butterfly Dampers.
Adjustable Motor Plate. Variable Pitch Motor Pulley.
Static Free Belts. Construction Level III. Steel Damper.

Options/Subcomponent Summary:

Description

10 HP Motor

Damper lifters with 165 F fusible links

High Temp Rating

NEMA 3R Toggle Switch



Test Mounting Details:

¹ Weight includes curb weight.

² Height includes curb height.

UUT16 was base mounted - rigid on GPF-72-G20 20" roof curb using 1/4" ungraded sheet metal screws on 16" centers in the middle of the flange of the curb.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

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TRU PROJECT NO. 1900532, Rev. 1



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A photograph of a large, rectangular, metallic enclosure, likely a power transformer or a large electronic unit, mounted on a wooden platform outdoors. The enclosure has a corrugated metal top and a smooth metal body. It is situated on a wooden deck or walkway, with a white lattice railing visible in the foreground. The background shows green foliage and a clear sky.

TRU PROJECT NO. 1900532, Rev. 1



UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 26
Model Line:	SQ	
Model Number:	SQ-160HP-VG	
Serial Number:	N/A	
		Test Report: 14238, Rev. 2 (UUT26)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
111	29.0	26.0	26.0	2.8	6.4	17.7

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

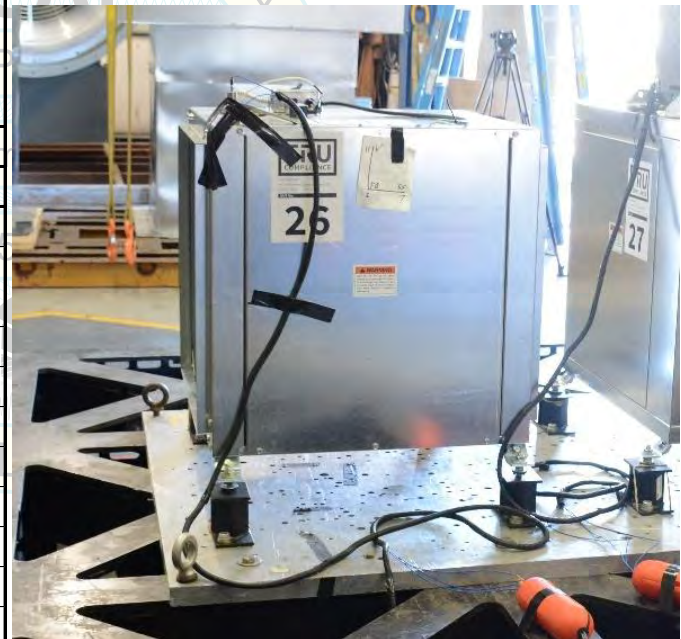
Product Construction Summary:	Test Mounting Details:
--------------------------------------	-------------------------------

Carbon Steel Housing. Backward Inclined Aluminum Wheel.
Two Bolted Access Panels. Integral Duct Connection Flanges.
Ball Bearing Motor. Corrosion Resistant Fasteners.

Options/Subcomponent Summary:

Description

Vari-Green EC Motor 0-10 VDC Input Signal
Vari-Green Control Dial on Exterior of Fan Housing, Mounted and Wired
NEMA 1 Toggle Switch
High Pressure (HP) Wheel
Junction Box Mounted and Wired
Isolators and Brackets
Spring Vibration Isolators



UUT26 was base mounted - isolated to the test fixture using four (4) VMC AMSR-1C-100 isolators to the unit using one (1) 1/2" Grade 8 bolt for each isolator. The isolators were mounted to the test fixture using two (2) 1/2" Grade 8 bolts for each isolator.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 27
Model Line:	BSQ	
Model Number:	BSQ-180HP-10	
Serial Number:	N/A	
		Test Report: 14238, Rev. 2 (UUT27)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
182	34.0	27.0	41.0	4.1	3.3	6.4

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

Product Construction Summary: Test Mounting Details:

Carbon Steel Housing. Backward Inclined Aluminum Wheel.
Two Bolted Access Panels. Integral Duct Connection Flanges.
Ball Bearing Motor. Adjustable Motor Pulley.
Adjustable Motor Plate. Static Free Belts.
Fan Shaft Mounted in Ball Bearing Pillow Blocks.
Corrosion Resistant Fasteners.

Options/Subcomponent Summary:

Description

NEMA 1 Toggle Switch

Junction Box Mounted and Wired

Motor Cover

Bearings with Grease Fittings

L10 life of 100,000 hrs. (L50 avg. life 500,000 hrs.)



UUT27 was base mounted - isolated to the test fixture using four (4) VMC AMSR-1C-100 isolators to the unit using one (1) 1/2" Grade 8 bolt for each isolator. The isolators were mounted to the test fixture using two (2) 1/2" Grade 8 bolts for each isolator.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET


TRU PROJECT NO. 1900532, Rev. 1



Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 28
Model Line:	BSQ	
Model Number:	BSQ-420-100	
Serial Number:	N/A	
		Test Report: 14238, Rev. 2 (UUT28)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,236	96.0	58.0	76.0	5.2	3.5	8.4

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

Product Construction Summary:	Test Mounting Details:
Carbon Steel Housing. Backward Inclined Aluminum Wheel. Two Bolted Access Panels. Integral Duct Connection Flanges. Ball Bearing Motor. Adjustable Motor Pulley. Adjustable Motor Plate. Static Free Belts. Fan Shaft Mounted in Ball Bearing Pillow Blocks. Corrosion Resistant Fasteners.	 <p>UUT28 was base mounted - isolated to the test fixture using six (6) VMC MSH-1E-400 isolators to the unit using one (1) 5/8" Grade 8 bolt for each isolator. The isolators were mounted to the test fixture using four (4) 5/8" Grade 8 bolts for each isolator. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>
Options/Subcomponent Summary:	
Description	
NEMA Premium Efficient Motor	
NEMA 1 Toggle Switch	
Junction Box Mounted and Wired	
Insulated Housing: 1" Thick on Fan Housing and Filter Box	
Sloped Filter Box: 2" Aluminum and Paper Filters	
Isolators and Brackets	
Bearings with Grease Fittings	
L10 life of 100,000 hrs. (L50 avg. life 500,000 hrs.)	

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1900532, Rev. 1




Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 29
Model Line:	SQ	
Model Number:	SQ-60-VG	
Serial Number:	N/A	
		Test Report: 14238, Rev. 2 (UUT29)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
33	15.0	12.0	12.0	N/A	N/A	N/A

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

Product Construction Summary:	Test Mounting Details:
Carbon Steel Housing. Backward Inclined Aluminum Wheel. Two Bolted Access Panels. Integral Duct Connection Flanges. Sleeve Bearing Motor. Corrosion Resistant Fasteners.	

Options/Subcomponent Summary:	
Description	
Vari-Green EC Motor 0-10 VDC Input Signal	
Vari-Green Control Dial on Exterior of Fan Housing Mounted and Wired	
NEMA 1 Toggle Switch	
Junction Box Mounted and Wired	
Side Discharge: Viewing Inlet with Motor on Top	

UUT29 was ceiling mounted - isolated using four (4) 3/8" Ø A307 threaded rods with rod stiffeners, four (4) Mason RW30N-A-12 isolators, and four (4) 3/32" Ø diag. cable braces with Mason SCB-0/SCBH-0 clips at ends.
Cable was looped around the bolt and re-run back through the outside of the clamp to prevent slippage.
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

TRU PROJECT NO. 1900532, Rev. 1




Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 30
Model Line:	SQ	
Model Number:	SQ-95-E	
Serial Number:	N/A	
		Test Report: 14238, Rev. 2 (UUT30)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
45	19.0	15.0	15.0	N/A	N/A	N/A

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

Product Construction Summary:	Test Mounting Details:
Carbon Steel Housing. Backward Inclined Aluminum Wheel. Two Bolted Access Panels. Integral Duct Connection Flanges. Sleeve Bearing Motor. Corrosion Resistant Fasteners.	

Options/Subcomponent Summary:	
Description	
NEMA 1 Toggle Switch	
Junction Box Mounted and Wired	
6A Solid State Speed Control	
	<p>UUT30 was ceiling mounted - isolated using four (4) 3/8" Ø A307 threaded rods with rod stiffeners, four (4) Mason RW30N-A-18 isolators, and four (4) 3/32" Ø diag. cable braces with Mason SCB-0/SCBH-0 clips at ends.</p> <p>Cable was looped around the bolt and re-run back through the outside of the clamp to prevent slippage.</p> <p>Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>

UNIT UNDER TEST (UUT) SUMMARY SHEET


TRU PROJECT NO. 1900532, Rev. 1



Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 31
Model Line:	BSQ	
Model Number:	BSQ-70-7	
Serial Number:	N/A	
		Test Report: 14238, Rev. 2 (UUT31)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
75	27.0	17.0	31.0	N/A	N/A	N/A

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

Product Construction Summary:	Test Mounting Details:
Carbon Steel Housing. Backward Inclined Aluminum Wheel. Two Bolted Access Panels. Integral Duct Connection Flanges. Ball Bearing Motor. Adjustable Motor Pulley. Adjustable Motor Plate. Static Free Belts. Fan Shaft Mounted in Ball Bearing Pillow Blocks. Corrosion Resistant Fasteners.	 <p>UUT31 was ceiling mounted - isolated using four (4) 3/8" Ø A307 threaded rods with rod stiffeners, two (2) Mason RW30N-A-18 isolators, two (2) Mason RW30N-A-41 isolators, and four (4) 3/32" Ø diag. cable braces with Mason SCB-0/SCBH-0 clips at ends. Cable was looped around the bolt and re-run back through the outside of the clamp to prevent slippage. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>
Options/Subcomponent Summary:	
Description	
NEMA 1 Toggle Switch	
Junction Box Mounted and Wired	
Aluminum Housing	
Isolators Mounting Brackets (P/N: 800201)	

TRU PROJECT NO. 1900532, Rev. 1

A large, rectangular, metallic component, likely a mold, is being moved by a yellow overhead crane in a factory setting. The component has two labels with the number '32' and the word 'Front'. The component is being moved horizontally across the frame. In the background, there are various industrial equipment, including a yellow crane, a blue structure, and a person working on the floor. The floor is covered with a blue mat. The overall scene is a busy industrial environment.

UNIT UNDER TEST (UUT) SUMMARY SHEET


TRU PROJECT NO. 1900532, Rev. 1



Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 33
Model Line:	RBUMO	
Model Number:	RBUMO-2H54-50	
Serial Number:	N/A	
		Test Report: 14238, Rev. 2 (UUT33)

UUT Properties						
Weight (lbs.) ¹	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height ²	Front-Back	Side-Side	Vertical
812	66.0	66.0	111.0	14.2	13.8	9.9

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

Product Construction Summary:	Test Mounting Details:
<p>Fan Base, Motor Cover and Windband of Carbon Steel. Panel and Drive Frame Assemblies of Painted Steel. Windband has built in Damper Stops. Butterfly Dampers. Fabricated Steel Propeller. Ball Bearing Motors. Adjustable Motor Plate. Variable Pitch Motor Pulley. Fan Shaft Mounted in Pillow Block Bearings with Grease Zer's. Fixed Pitched Drives. Static Free Belts. Corrosion Resistant Fasteners.</p>	

Options/Subcomponent Summary:
Description
NEMA Premium Efficient Motor
NEMA 3R Toggle Switch
Junction Box Mounted and Wired
Roof Curb-Galv., GPF-66-G42, Under Sized 0.5" Total
Galvanized Construction
Steel Propeller
Belt Tube
Aluminum Butterfly Damper
Motorized Butterfly Damper Lifters (24V Actuator with 120/230V Transformer)
Bearings with Grease Fittings

Test Mounting Details:
<p>UUT33 was base mounted - rigid on GPF-66-G42 42" tall roof curb using twenty-four (24) 5/16" self-tapping screws to attach fan to curb and twenty-eight (28) 5/16" self-tapping screws to attach curb to wood curb mount. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>

- ¹ Weight includes curb weight.
² Height includes curb height.

UNIT UNDER TEST (UUT) SUMMARY SHEET


TRU PROJECT NO. 1900532, Rev. 1



Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 34
Model Line:	RBCF	
Model Number:	RBCF-3H72-200	
Serial Number:	N/A	
		Test Report: 14238, Rev. 2 (UUT34)

UUT Properties						
Weight (lbs.) ¹	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height ²	Front-Back	Side-Side	Vertical
1,512	136.0	147.0	113.0	25.1	7.7	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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

Product Construction Summary:	Test Mounting Details:
Base and Hoods of Carbon Steel. Drive Frames and Fan Panels of Fabricated Carbon Steel. Washable Aluminum Filters. Ball Bearing Motors. Cast Aluminum Airfoil Blade Propeller. Fan Shaft Pulley. Adjustable Motor Plate. Adjustable Motor Pulley. Fan Shaft Mounted in Ball Bearing Pillow Blocks. Static Free Belts. Corrosion Resistant Fasteners.	
Options/Subcomponent Summary:	
Description	
<i>Hood</i>	
<i>NEMA Premium Efficient Motor</i>	
<i>30A Disconnect</i>	
<i>NEMA 1 Toggle Switch</i>	
<i>Junction Box Mounted and Wired</i>	
<i>Roof Curb-Galv., GPF-83-G42, Under Sized 0.5" Total</i>	
<i>Tall Base with Latched Access Door</i>	
<i>Cast Aluminum Propeller</i>	<p>UUT34 was base mounted - rigid on GPF-82-G42 42" tall roof curb using thirty-six (36) 5/16" self-tapping screws to attach fan to curb and sixteen (16) 5/16" self-tapping screws to attach curb to wood curb mount.</p> <p>Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>
<i>Aluminum Construction</i>	
<i>Damper Mounted (VCD-23-PB-72X72)</i>	
<i>Damper Actuator (MS4120F1006), 460 VAC Actuated w/ 115 VAC Transformer</i>	
<i>0.5" Hood Insulation</i>	
<i>Bearings with Grease Fittings</i>	
<i>Extended Lube Lines</i>	
<i>Insect Screen Base</i>	
Test Mounting Details:	
<div><p>¹ Weight includes curb weight.</p><p>² Height includes curb height.</p></div>	

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 35
Model Line:	RBF	
Model Number:	RBF-2L36-30	
Serial Number:	N/A	
		Test Report: 14238, Rev. 2 (UUT35)

UUT Properties						
Weight (lbs.) ¹	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height ²	Front-Back	Side-Side	Vertical
835	94.0	87.0	98.0	4.4	4.9	11.0

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

Product Construction Summary: Test Mounting Details:

Base and Hoods of Carbon Steel.
Drive Frames and Fan Panels of Fabricated Carbon Steel.
Washable Aluminum Filters. Ball Bearing Motors.
Fabricated Steel Propeller (CBR-G). Fan Shaft Pulley.
Adjustable Motor Plate. Adjustable Motor Pulley.
Fan Shaft Mounted in Ball Bearing Pillow Blocks.
Static Free Belts. Corrosion Resistant Fasteners.

Options/Subcomponent Summary:

Description

NEMA Premium Efficient Motor
NEMA 3R Toggle Switch
Junction Box Mounted and Wired
Roof Curb-Galv., GPF-46-G42, Under Sized 0.5" Total
Tall Base with Latched Access Door
Steel Propeller
Galvanized Construction
Damper Mounted (WD-200-PB-36X36), End Switch
Damper Actuator (MP-210), 115 VAC Actuated
Bearings with Grease Fittings
Insect Screen Base

Test Mounting Details:

- ¹ Weight includes curb weight.
² Height includes curb height.



UUT35 was base mounted - rigid on GPF-46-G42 42" tall roof curb using twenty-four (24) 5/16" self-tapping screws to attach fan to curb and eighteen (18) 5/16" self-tapping screws to attach curb to wood curb mount.
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

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 36
Model Line:	RBF	
Model Number:	RBF-1H36-30	
Serial Number:	N/A	
		Test Report: 14238, Rev. 2 (UUT36)

UUT Properties						
Weight (lbs.) ¹	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height ²	Front-Back	Side-Side	Vertical
835	94.0	87.0	98.0	6.5	7.5	12.1

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

Product Construction Summary: Test Mounting Details:

Base and Hoods of Carbon Steel.
Drive Frames and Fan Panels of Fabricated Carbon Steel.
Washable Aluminum Filters. Ball Bearing Motors.
Fabricated Steel Propeller (SBR). Fan Shaft Pulley.
Adjustable Motor Plate. Adjustable Motor Pulley.
Fan Shaft Mounted in Ball Bearing Pillow Blocks.
Static Free Belts. Corrosion Resistant Fasteners.

Options/Subcomponent Summary:

Description
NEMA Premium Efficient Motor
NEMA 3R Toggle Switch
Junction Box Mounted and Wired
Roof Curb-Galv., GPF-46-G42, Under Sized 0.5" Total
Tall Base with Latched Access Door
Steel Propeller
Galvanized Construction
Damper Mounted (WD-200-PB-36X36), End Switch
Damper Actuator (MP-210), 115 VAC Actuated
Bearings with Grease Fittings
Insect Screen Base

Test Mounting Details:

¹ Weight includes curb weight.
² Height includes curb height.



UUT36 was base mounted - rigid on GPF-46-G42 42" tall roof curb using twenty-four (24) 5/16" self-tapping screws to attach fan to curb and eighteen (18) 5/16" self-tapping screws to attach curb to wood curb mount.
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

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 40
Model Line:	RBS	
Model Number:	RBS-1L30-10	
Serial Number:	N/A	
		Test Report: 14238, Rev. 2 (UUT40)

UUT Properties						
Weight (lbs.) ¹	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height ²	Front-Back	Side-Side	Vertical
420	75.0	75.0	63.3	15.2	9.8	28.9

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

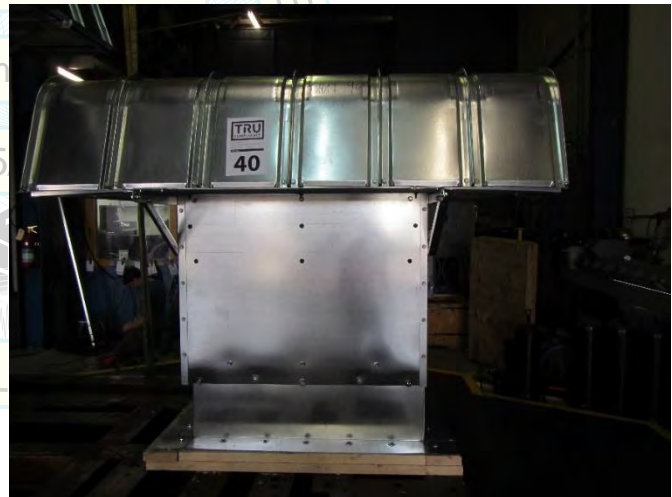
Product Construction Summary: Test Mounting Details:

Base and Hoods of Carbon Steel.
Drive Frames and Fan Panels of Fabricated Carbon Steel.
Wire Mesh Birdscreens. Ball Bearing Motors.
Fabricated Steel Propeller (CBR). Fan Shaft Pulley.
Adjustable Motor Plate. Adjustable Motor Pulley.
Fan Shaft Mounted in Ball Bearing Pillow Blocks.
Static Free Belts. Corrosion Resistant Fasteners.

Options/Subcomponent Summary:

Description

NEMA Premium Efficient Motor
NEMA 3R Toggle Switch
Roof Curb-Galv., GPF-40-G12, Under Sized 1.25" Total
Tall Base with Latched Access Door
Steel Propeller
Galvanized Construction
Damper Mounted (VCD-20-PB-30X30)
Damper Actuator (MS8104F1010), 24 VAC Actuated



Test Mounting Details:

- ¹ Weight includes curb weight.
² Height includes curb height.

UUT40 was base mounted - rigid on GPF-40-G12 12" tall roof curb using twenty-four (24) 5/16" self-tapping screws to attach fan to curb and twenty (20) 5/16" self-tapping screws to attach curb to wood curb mount.
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

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 42
Model Line:	RCE	
Model Number:	RCE3-54-323-C75	
Serial Number:	N/A	
		Test Report: 14238, Rev. 2 (UUT42)

UUT Properties						
Weight (lbs.) ¹	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height ²	Front-Back	Side-Side	Vertical
1,525	112.0	111.0	108.0	5.5	6.9	11.1

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

Product Construction Summary: Test Mounting Details:

Base and Hoods of Carbon Steel.
Drive Frames and Fan Panels of Fabricated Carbon Steel.
Wire Mesh Birdscreens. Ball Bearing Motors.
Cast Aluminum Airfoil Blade Propellor.
Corrosion Resistant Fasteners.

Options/Subcomponent Summary:

Description

Hood
NEMA Energy Efficient Motor
Roof Curb-Galv., GPF-64-G42, Under Sized 0.5" Total
Tall Base with Latched Access Door
Cast Aluminum Propeller
Galvanized Construction
Damper Mounted (WD-100-PB-54X54), End Switch
Damper Actuator (MP-100A), 115 VAC Actuated
Insect Screen Base



Test Mounting Details:

- ¹ Weight includes curb weight.
² Height includes curb height.

UUT42 was base mounted - rigid on GPF-64-G42 42" tall roof curb using twenty (20) 5/16" self-tapping screws to attach fan to curb and twenty-four (24) 5/16" self-tapping screws to attach curb to wood curb mount.
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

TRU PROJECT NO. 1900532, Rev. 1



Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 43
Model Line:	RSF	
Model Number:	RSF-200-100	
Serial Number:	N/A	
		Test Report: 14238, Rev. 2 (UUT43)

UUT Properties						
Weight (lbs.) ¹	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height ²	Front-Back	Side-Side	Vertical
1,006	73.0	73.0	81.3	5.8	6.0	13.1

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

Product Construction Summary: Test Mounting Details:

Removable Insulated Hood Cover.
Curb Cab with Pre-punched Mounting Holes.
Blower and Motor Assembly Isolated on Shock Mounts.
Forward Curved Fan Wheel. Adjustable Motor Pulley.
Adjustable Motor Plate. Ball Bearing Motor.
Fan Shafted in Ball Bearing Pillow Blocks. Static Free Belts.
Corrosion Resistant Fasteners.

Options/Subcomponent Summary:

Description

NEMA Premium Efficient Motor
Roof Curb-Galv., GPF-52-G42, Under Sized 0.5" Total
Galvanized Housing
Standard 1" Washable Aluminum Filters
Duct Adapter



Test Mounting Details:

- ¹ Weight includes curb weight.
² Height includes curb height.

UUT43 was base mounted - rigid on GPF-52-G42 42" tall roof curb using twenty-four (24) 5/16" self-tapping screws to attach fan to curb and twenty (20) 5/16" self-tapping screws to attach curb to wood curb mount.
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


TRU PROJECT NO. 1900532, Rev. 1



Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 44
Model Line:	SQ	
Model Number:	SQ-95-D	
Serial Number:	N/A	
		Test Report: 15332, Rev. 1 (UUT44)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
56	19.0	15.0	15.0	3.55	5.31	7.40

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

Product Construction Summary:	Test Mounting Details:
Carbon Steel Housing. Backward Inclined Composite Wheel. Two Bolted Access Panels. Integral Duct Connection Flanges. Sleeve Bearing Motor. Corrosion Resistant Fasteners.	 <p>UUT44 was base mounted - isolated to the test fixture using four (4) VMC AMSR-1C-50 isolators to the unit using one (1) 1/2" Grade 8 bolt for each isolator. The isolators were mounted to the test fixture using two (2) 1/2" Grade 8 bolts for each isolator. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>
Options/Subcomponent Summary:	
Description	
NEMA 1 Toggle Switch	
Junction Box Mounted and Wired	
Inlet/Outlet Guard	
6A Solid State Speed Control	
Spring Vibration Isolators	

UNIT UNDER TEST (UUT) SUMMARY SHEET


TRU PROJECT NO. 1900532, Rev. 1



Manufacturer:	Greenheck Fan Corporation (Accurex)	UUT 45
Model Line:	SQ	
Model Number:	SQ-95-E	
Serial Number:	N/A	
		Test Report: 15332, Rev. 1 (UUT45)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
66	19.0	15.0	15.0	N/A	N/A	N/A

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	2.13	0.85	
		3.20	0.0						

Product Construction Summary:	Test Mounting Details:
Carbon Steel Housing. Backward Inclined Composite Wheel. Two Bolted Access Panels. Integral Duct Connection Flanges. Sleeve Bearing Motor. Corrosion Resistant Fasteners.	 <p>UUT45 was ceiling mounted - isolated using four (4) 3/8" Ø A307 threaded rods with rod stiffeners, four (4) Kinetics Noise Control SHAA-25 Isolators mounted to the fixture using one (1) 3/8" Grade 5 bolt each, and two (2) 3/32" Ø diagonal cable braces per corner (8 total) w/ Mason SCB-0/SCBH-0 clips at ends. Cables were looped around the bolt and re-run back through the outside of the clamp to prevent slippage. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>
Options/Subcomponent Summary:	
Description	
NEMA 1 Toggle Switch	
Junction Box Mounted and Wired	
6A Solid State Speed Control	