



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

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

OFFICE USE ONLY

APPLICATION #: OSP – 0113

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

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: Greenheck Fan Corporation

Manufacturer's Technical Representative: David Mayer

Mailing Address: PO Box 410, Schofield, WI 54479

Telephone: 715.355.3939

Email: [David.mayer@greenheck.com](mailto:David.mayer@greenheck.com)

**Product Information**

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

Product Type: Centrifugal and Axial Fans

Product Model Number: Various (See Attachment)

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

General Description: Air handling fans including centrifugal and propeller, inline and rooftop, supply, and exhaust. Seismic enhancements made to test units to address anomalies observed during testing shall be incorporated into production units.

Mounting Description: Varies

**Applicant Information**

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

Contact Person: Galen Reid

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

Telephone: 541-604-7225

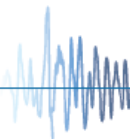
Email: [greid@structint.com](mailto:greid@structint.com)

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: 9/5/2019

Title: Program Manager Company Name: TRU Compliance, by 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: TRU Compliance, by Structural Integrity Associates, Inc.

Name: Andrew Coughlin, SE California License Number: S6082

Mailing Address: 5215 Hellyer Ave, Suite 210, San Jose, CA 94608

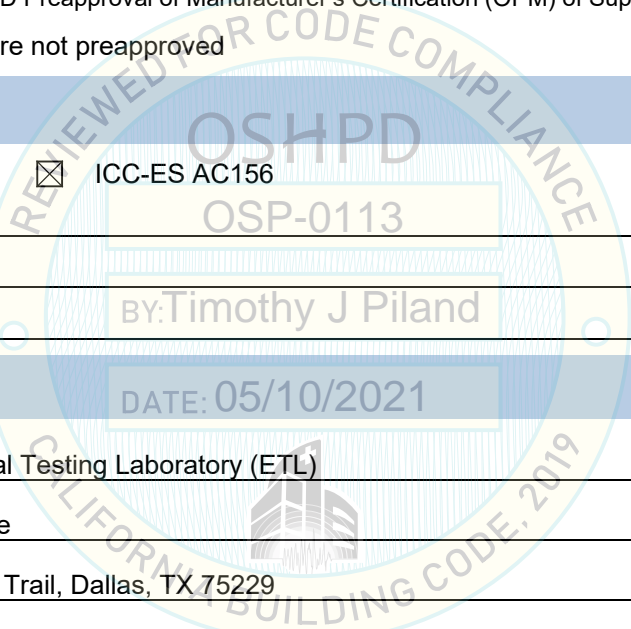
Telephone: (844) 878-0200 Email: [acoughlin@structint.com](mailto:acoughlin@structint.com)

**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): \_\_\_\_\_



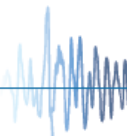
**Testing Laboratory**

Company Name: Environmental Testing Laboratory (ETL)

Contact Name: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas, TX 75229

Telephone: (972) 247-9657 Email: [jeremy@etldallas.com](mailto:jeremy@etldallas.com)





OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
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Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: [X] Yes [ ] No

Design Basis of Equipment or Components (Fp/Wp) = 1.43

S\_Ds (Design spectral response acceleration at short period, g) = 1.90

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

Rp (Equipment or component response modification factor) = 6.0

Omega\_0 (System overstrength factor) = 2.0

Ip (Importance factor) = 1.5

z/h (Height factor ratio) = 1

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 [X] 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) =

Omega\_0 (System overstrength factor) =

Cd (Deflection amplification factor) =

Ip (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

[X] Test Report(s) [ ] Drawings [ ] Calculations [X] Manufacturer's Catalog

[X] Other(s) (Please Specify): Product Matrices

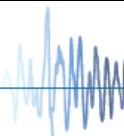
OSHPD Approval (For Office Use Only) - Approval Expires on December 31, 2025

Signature: [Signature] Date: May 10, 2021

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to: S\_Ds (g) = 1.90 z/h = 1

Condition of Approval (if applicable):



# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>TABLE 1</b>
<b>Model Line:</b> SQ, XID	

**Certified Product Construction Summary:**  
Carbon Steel Panels; Heavy-Gauge Carbon Steel Drive Frame; Aluminum Wheel or Composite Wheel (SQ 60-95 composite option available); Inlet and Outlet Duct Collars; Direct Drive; 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 configuration must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2019      **Seismic Certification Limits:**  $S_{DS} = 1.90 g$      $z/h = 1.0$        $I_p = 1.5$

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
Greenheck "SQ"	SQ-60	15	12	12	33		Extrap.
	SQ-65	15	12	12	33		Extrap.
	SQ-70	15	12	12	33		Extrap.
	SQ-75	15	12	12	33		Extrap.
	SQ-80	19	15	15	44.5		Extrap.
	SQ-85	19	15	15	44.5		Extrap.
	SQ-90	19	15	15	44.5		Extrap.
	SQ-95	19	15	15	44.5	UUT25: 41.5 lbs; UUT44: 56lbs	25, 44
	SQ-97	19	15	15	53		Interp.
	SQ-98	19	15	15	53		Interp.
Accurex "XID"	SQ-99	19	15	15	53		Interp.
	SQ-100	24	17	17	62		Interp.
	SQ-120	24	19	19	66		Interp.
	SQ-130	24	21	21	68		Interp.
	SQ-130HP	24	21	21	68		Interp.
	SQ-140	25	23	23	101		Interp.
	SQ-140HP	25	23	23	101		Interp.
	SQ-160	29	26	26	110.5		Interp.
	SQ-160HP	29	26	26	110.5	UUT: 110.5 lbs.	26

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>TABLE 2</b>
<b>Model Line:</b> SQ, XID	

**Certified Product Construction Summary:**  
Carbon Steel Panels; Heavy-Gauge Carbon Steel Drive Frame; Aluminum Wheel or Composite Wheel (SQ 60-95 composite option available); Inlet and Outlet Duct Collars; Direct Drive; 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 configuration must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2019      **Seismic Certification Limits:**  $S_{DS} = 1.90 g$     $z/h = 1.0$        $I_p = 1.5$

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
Greenheck "SQ"	SQ-60	15	12	12	33	UUT: 33 lbs.	29
	SQ-65	15	12	12	33		Interp.
	SQ-70	15	12	12	33		Interp.
	SQ-75	15	12	12	33		Interp.
	SQ-80	19	15	15	44.5		Interp.
	SQ-85	19	15	15	44.5		Interp.
	SQ-90	19	15	15	44.5		Interp.
	SQ-95	19	15	15	44.5	UUT30: 44.5 lbs; UUT45: 65lbs	30, 45
	SQ-97	19	15	15	53		Interp.
	SQ-98	19	15	15	53		Interp.
Accurex "XID"	SQ-99	19	15	15	53		Interp.
	SQ-100	24	17	17	62		Interp.
	SQ-120	24	19	19	66		Interp.
	SQ-130	24	21	21	68		Interp.
	SQ-130HP	24	21	21	68		Interp.
	SQ-140	25	23	23	101		Interp.
	SQ-140HP	25	23	23	101		Interp.
	SQ-160HP	29	26	26	125		Interp.
	SQ-160	29	26	26	125	UUT: 125 lbs	8

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)						<b>TABLE 3</b>		
<b>Model Line:</b> BSQ, XIB								
<b>Certified Product Construction Summary:</b> 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								
<b>Certified Options Summary:</b> 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)								
<b>Mounting Configuration:</b> Base Mounted - Spring Isolated Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.								
<b>Building Code:</b> CBC 2019		<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$			$I_p = 1.5$			
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT	
		Depth	Width	Height				
Greenheck "BSQ"	BSQ-70	57	15	23	168		Extrap.	
	BSQ-80	57	17	30	168		Extrap.	
	BSQ-90	57	17	30	168		Extrap.	
	BSQ-100	57	17	30	171		Extrap.	
	BSQ-120	62	19	32	195		Extrap.	
	BSQ-130	56	21	34	191		Extrap.	
	BSQ-130HP	56	21	34	191		Extrap.	
	BSQ-140	62	23	36	232		Extrap.	
	BSQ-140HP	62	23	36	232		Extrap.	
	BSQ-160	62	26	39	345		Extrap.	
	BSQ-160HP	62	26	39	345		Extrap.	
	Accurex "XIB"	BSQ-180	64	27	41	395		Extrap.
		BSQ-180HP	64	27	41	395	UUT: 182 lbs w/out filter box	27
		BSQ-200	72	31	47	492		Interp.
		BSQ-200HP	72	31	47	492		Interp.
		BSQ-240	75	38	54	624		Interp.
		BSQ-240HP	75	38	54	624		Interp.
		BSQ-300	75	46	64	810		Interp.
BSQ-300HP		75	46	64	810		Interp.	
BSQ-360	82	52	70	1008		Interp.		
BSQ-360HP	82	52	70	1008		Interp.		
BSQ-420	96	58	76	1236	UUT: 1236 lbs w/filter box	28		



# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>TABLE 4</b>
<b>Model Line:</b> 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 configuration must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2019      **Seismic Certification Limits:**  $S_{DS} = 1.90 g$     $z/h = 1.0$        $I_p = 1.5$

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
Greenheck "BSQ"	BSQ-70	57	17	31	168	UUT: 74.5 lbs. w/out filter box	31
	BSQ-80	57	17	31	168		Interp.
	BSQ-90	57	17	31	168	Interp.	
	BSQ-100	57	17	31	171	Interp.	
	BSQ-120	62	19	32	195	Interp.	
	BSQ-130	56	21	34	191	Interp.	
	BSQ-130HP	56	21	34	191	Interp.	
	BSQ-140	62	23	36	232	Interp.	
	BSQ-140HP	62	23	36	232	Interp.	
	BSQ-160	62	26	39	345	Interp.	
	BSQ-160HP	62	26	39	345	Interp.	
	Accurex "XIB"	BSQ-180	64	27	40	395	Interp.
		BSQ-180HP	64	27	40	395	Interp.
		BSQ-200	72	31	47	492	Interp.
		BSQ-200HP	72	31	47	492	Interp.
		BSQ-240	75	38	54	624	Interp.
		BSQ-240HP	75	38	54	624	Interp.
		BSQ-300	75	46	64	810	Interp.
BSQ-300HP		75	46	64	810	Interp.	
BSQ-360	82	52	70	1008	Interp.		
BSQ-360HP	82	52	70	1008	Interp.		
BSQ-420	96	58	76	1236	UUT 32: 1236 lbs. w/filter box	32	

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



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<b>Manufacturer:</b> Greenheck (Accurex)						<b>TABLE 5</b>	
<b>Model Line:</b> RE2, RS2, RCE3, RCS3, RPDR							
<b>Certified Product Construction Summary:</b> Direct drive: Construction Levels II & III; CarbonSteel & Aluminum Fan Blades; Type L & H Propellers; Heavy-Guage Carbon Steel Motor Support Frame and Fan Panels; Hinged & Removable Hood; Removable Birdscreen							
<b>Certified Options Summary:</b> Tall Base; Safety Guards; Curb Cap Stripping; Insect Screen Base; Extended Lube Lines; Disconnect switches; End switches; Gravity Dampers; 1-point wiring							
<b>Mounting Configuration:</b> Base Mounted - Rigid on Roof Curb up to 42" tall Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
<b>Building Code:</b> CBC 2019		<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$			$I_p = 1.5$		
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
RE2	RE2-18	48	51	42	250	UUT: 221 lbs. w/out curb	11
	RE2-20	54	51	45	260		Interp.
	RE2-24	66	63	47	275		Interp.
	RE2-30	78	87	52	310		Interp.
	RE2-36	94	87	57	525		Interp.
	RE2-42	93	99	60	750		Interp.
	RE2-48	112	111	61	1090		Interp.
	RE2-54	124	123	67	1298		Interp.
RS2	RS2-18	48	51	41	250		Interp.
	RS2-20	54	51	45	260		Interp.
	RS2-24	66	63	47	275		Interp.
	RS2-30	78	87	52	310		Interp.
	RS2-36	94	87	57	525		Interp.
	RS2-42	93	99	60	750		Interp.
	RS2-48	112	111	61	1090		Interp.
	RS2-54	124	123	67	1298		Interp.
RCS3	RCS3-20	54	51	45	260		Interp.
	RCS3-24	66	63	47	275		Interp.
	RCS3-30	78	87	52	310		Interp.
	RCS3-36	94	87	57	525		Interp.
	RCS3-42	93	99	60	750		Interp.
	RCS3-48	112	111	61	1090		Interp.
	RCS3-54	124	123	67	1298		Interp.
RPDR	RPDR-24	66	63	47	275		Interp.



# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



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<b>Manufacturer:</b> Greenheck (Accurex)	<b>TABLE 5</b>
<b>Model Line:</b> RE2, RS2, RCE3, RCS3, RPDR	

**Certified Product Construction Summary:**  
Direct drive: Construction Levels II & III; CarbonSteel & 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 configuration must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2019      **Seismic Certification Limits:**  $S_{DS} = 1.90g$   $z/h = 1.0$        $I_p = 1.5$

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
RPDR	RPDR-30	78	87	52	310		Interp.
	RPDR-36	94	87	57	525		Interp.
	RPDR-42	100	99	61	750		Interp.
	RPDR-48	112	111	62	1090		Interp.
	RPDR-54	113	112	67	1298		Interp.
RCE3	RCE3-20	54	51	45	260		Interp.
	RCE3-24	66	63	47	275		Interp.
	RCE3-30	78	87	52	310		Interp.
	RCE3-36	94	87	57	525		Interp.
	RCE3-42	93	99	60	750		Interp.
	RCE3-48	112	111	61	1090		Interp.
	RCE3-54	112	111	67	1298	UUT: 1525 lbs. w/42" curb	42

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



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<b>Manufacturer:</b> Greenheck (Accurex)	<b>TABLE 6</b>
<b>Model Line:</b> 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-Gauge 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 configuration must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2019      **Seismic Certification Limits:**  $S_{DS} = 1.90 g$     $z/h = 1.0$        $I_p = 1.5$

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
RBE	RBE-1H20	54	51	45	325		Interp.
	RBE-1H24	66	63	47	375		Interp.
	RBE-1H30	78	87	52	425		Interp.
	RBE-1H36	94	87	57	525		Interp.
	RBE-1L20	54	51	45	325		Interp.
	RBE-1L24	66	63	47	350		Interp.
	RBE-1L30	78	87	52	375		Interp.
	RBE-1L36	94	87	57	525		Interp.
	RBE-2H20	54	51	45	350		Interp.
	RBE-2H24	66	63	47	410		Interp.
	RBE-2H30	78	87	52	498		Interp.
	RBE-2H36	94	87	57	625		Interp.
	RBE-2H42	93	99	60	725		Interp.
	RBE-2H48	112	111	61	860		Interp.
	RBE-2H54	124	123	67	1025		Interp.
	RBE-2H60	136	135	68	1180		Interp.
	RBE-2L20	54	51	45	350		Interp.
	RBE-2L24	66	63	47	410		Interp.
	RBE-2L30	78	87	52	498		Interp.
	RBE-2L36	94	87	57	625		Interp.
	RBE-3H24	66	63	47	450		Interp.
	RBE-3H30	78	87	52	510		Interp.
	RBE-3H36	94	87	57	630		Interp.
	RBE-3H42	93	99	60	740		Interp.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



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<b>Manufacturer:</b> Greenheck (Accurex)						<b>TABLE 6</b>	
<b>Model Line:</b> RBE, RBS, RBF, RBCE, RBCS, RBCF, RPBR							
<b>Certified Product Construction Summary:</b> 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							
<b>Certified Options Summary:</b> Tall Base; Safety Guards; Aluminum Housing; Curb Cap Stripping; Insect Screen Base; Extended Lube Lines; Disconnect switches; End switches; Gravity Dampers; 1-point wiring							
<b>Mounting Configuration:</b> Base mounted rigid on up to 42" curb Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
<b>Building Code:</b> CBC 2019		<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$			$I_p = 1.5$		
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
RBE	RBE-3H48	112	111	61	875		Interp.
	RBE-3H54	124	123	67	1150		Interp.
	RBE-3H60	136	135	68	1194		Interp.
	RBE-3H72	136	147	71	1216		Interp.
	RBE-3L24	66	63	47	450		Interp.
	RBE-3L30	78	87	52	510		Interp.
	RBE-3L36	94	87	57	630		Interp.
	RBE-3L42	93	99	60	740		Interp.
	RBE-3L48	112	111	61	875		Interp.
	RBE-3L54	124	123	67	1150		Interp.
	RBE-3L60	136	135	68	1194		Interp.
	RBE-3L72	136	136	53	1216	UUT: 1365 lbs. w/24" curb	14
RBS	RBS-1H20	54	51	45	325		Interp.
	RBS-1H24	66	63	47	375		Interp.
	RBS-1H30	78	87	52	425		Interp.
	RBS-1H36	94	87	57	525		Interp.
	RBS-1L20	54	51	45	325		Interp.
	RBS-1L24	66	63	47	350		Interp.
	RBS-1L30	75	75	52	375	UUT: 420 lbs. w/12" curb	40
	RBS-1L36	94	87	57	525		Interp.
	RBS-2H20	54	51	45	350		Interp.
	RBS-2H24	66	63	47	410		Interp.
	RBS-2H30	78	87	52	498		Interp.
	RBS-2H36	94	87	57	625		Interp.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>TABLE 6</b>
<b>Model Line:</b> 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-Gauge 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 configuration must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2019      **Seismic Certification Limits:**  $S_{DS} = 1.90 g$     $z/h = 1.0$        $I_p = 1.5$

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
RBS	RBS-2H42	93	99	60	725		Interp.
	RBS-2H48	112	111	61	860		Interp.
	RBS-2H54	124	123	67	1025		Interp.
	RBS-2H60	136	135	68	1194		Interp.
	RBS-2L20	54	51	45	350		Interp.
	RBS-2L24	66	63	47	410		Interp.
	RBS-2L30	78	87	52	498		Interp.
	RBS-2L36	94	87	57	625		Interp.
	RBS-3H24	66	63	47	450		Interp.
	RBS-3H30	78	87	52	510		Interp.
	RBS-3H36	94	87	57	630		Interp.
	RBS-3H42	93	99	60	740		Interp.
	RBS-3H48	112	111	61	875		Interp.
	RBS-3H54	124	123	67	1150		Interp.
	RBS-3H60	136	135	68	1194		Interp.
	RBS-3H72	136	147	71	1216		Interp.
	RBS-3L24	66	63	47	450		Interp.
	RBS-3L30	78	87	52	510		Interp.
	RBS-3L36	94	87	57	630		Interp.
	RBS-3L42	93	99	60	740		Interp.
	RBS-3L48	112	111	61	875		Interp.
	RBS-3L54	124	123	67	1150		Interp.
	RBS-3L60	136	135	68	1194		Interp.
	RBS-3L72	136	147	71	1216		Interp.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>TABLE 6</b>
<b>Model Line:</b> 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-Gauge 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 configuration must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2019      **Seismic Certification Limits:**  $S_{DS} = 1.90 g$     $z/h = 1.0$        $I_p = 1.5$

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
RBF	RBF-1H20	51	59	27	425		Interp.
	RBF-1H24	66	63	47	450		Interp.
	RBF-1H30	78	87	52	525		Interp.
	RBF-1H36	94	87	57	675	UUT: 835 lbs. w/42" curb	36
	RBF-1L20	54	51	45	425		Interp.
	RBF-1L24	66	63	47	450		Interp.
	RBF-1L30	78	87	52	525		Interp.
	RBF-1L36	94	87	57	675		Interp.
	RBF-2H20	54	51	45	425		Interp.
	RBF-2H24	66	63	47	450		Interp.
	RBF-2H30	78	87	52	525		Interp.
	RBF-2H36	94	87	57	675		Interp.
	RBF-2H42	93	99	60	825		Interp.
	RBF-2H48	112	111	61	910		Interp.
	RBF-2H54	124	123	67	1160		Interp.
	RBF-2H60	136	135	68	1194		Interp.
	RBF-2L20	54	51	45	425		Interp.
	RBF-2L24	66	63	47	450		Interp.
	RBF-2L30	78	87	52	525		Interp.
	RBF-2L36	94	87	57	675	UUT: 835 lbs. w/42" curb	35
	RBF-3H24	66	63	47	425		Interp.
	RBF-3H30	78	87	52	525		Interp.
	RBF-3H36	94	87	57	675		Interp.
	RBF-3H42	93	99	60	825		Interp.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)						<b>TABLE 6</b>	
<b>Model Line:</b> RBE, RBS, RBF, RBCE, RBCS, RBCF, RPBR							
<b>Certified Product Construction Summary:</b> 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							
<b>Certified Options Summary:</b> Tall Base; Safety Guards; Aluminum Housing; Curb Cap Stripping; Insect Screen Base; Extended Lube Lines; Disconnect switches; End switches; Gravity Dampers; 1-point wiring							
<b>Mounting Configuration:</b> Base mounted rigid on up to 42" curb Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
<b>Building Code:</b> CBC 2019		<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$			$I_p = 1.5$		
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
RBF	RBF-3H48	112	111	61	875		Interp.
	RBF-3H54	124	123	67	1150		Interp.
	RBF-3H60	136	135	68	1194		Interp.
	RBF-3H72	136	147	71	1216		Interp.
	RBF-3L24	66	63	47	425		Interp.
	RBF-3L30	78	87	52	525		Interp.
	RBF-3L36	94	87	57	675		Interp.
	RBF-3L42	93	99	60	825		Interp.
	RBF-3L48	112	111	61	875		Interp.
	RBF-3L54	124	123	67	1150		Interp.
	RBF-3L60	136	135	68	1194		Interp.
	RBF-3L72	136	147	71	1216		Interp.
RBCE	RBCE-3H24	66	63	47	425		Interp.
	RBCE-3H30	78	87	52	525		Interp.
	RBCE-3H36	94	87	57	675		Interp.
	RBCE-3H42	93	99	60	825		Interp.
	RBCE-3H48	112	111	61	875		Interp.
	RBCE-3H54	124	123	67	1150		Interp.
	RBCE-3H60	136	135	68	1194		Interp.
	RBCE-3H72	136	147	71	1216		Interp.
RBCS	RBCS-3H24	66	63	47	425		Interp.
	RBCS-3H30	78	87	52	525		Interp.
	RBCS-3H36	94	87	57	675		Interp.
	RBCS-3H42	93	99	60	825		Interp.

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)						<b>TABLE 6</b>	
<b>Model Line:</b> RBE, RBS, RBF, RBCE, RBCS, RBCF, RPBR							
<b>Certified Product Construction Summary:</b> 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							
<b>Certified Options Summary:</b> Tall Base; Safety Guards; Aluminum Housing; Curb Cap Stripping; Insect Screen Base; Extended Lube Lines; Disconnect switches; End switches; Gravity Dampers; 1-point wiring							
<b>Mounting Configuration:</b> Base mounted rigid on up to 42" curb Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
<b>Building Code:</b> CBC 2019		<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$			$I_p = 1.5$		
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
RBCS	RBCS-3H48	112	111	61	875		Interp.
	RBCS-3H54	124	123	67	1150		Interp.
	RBCS-3H60	136	135	68	1194		Interp.
	RBCS-3H72	136	147	71	1216		Interp.
RPBR	RPBR-24	66	63	47	425		Interp.
	RPBR-30	78	87	52	525		Interp.
	RPBR-36	94	87	57	675		Interp.
	RPBR-42	93	99	60	825		Interp.
	RPBR-48	112	111	61	875		Interp.
	RPBR-54	124	123	67	1150		Interp.
	RPBR-60	136	135	68	1194		Interp.
	RPBR-72	136	147	71	1216		Interp.
RBCF	RBCF-3H24	66	63	47	425		Interp.
	RBCF-3H30	78	87	52	525		Interp.
	RBCF-3H36	94	87	57	675		Interp.
	RBCF-3H42	93	99	60	825		Interp.
	RBCF-3H48	112	111	61	875		Interp.
	RBCF-3H54	124	123	67	1150		Interp.
	RBCF-3H60	136	135	68	1194		Interp.
	RBCF-3H72	136	147	71	1216	UUT: 1512 lbs. w/42" curb	34

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>TABLE 7</b>
<b>Model Line:</b> 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 configuration must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2019      **Seismic Certification Limits:**  $S_{DS} = 1.90 g$     $z/h = 1.0$        $I_p = 1.5$

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
RBUMO	RBUMO-1H20	30	46	44	285		Interp.
	RBUMO-1H24	34	50	46	321		Interp.
	RBUMO-1H30	40	56	52	364		Interp.
	RBUMO-1H36	46	64	60	424		Interp.
	RBUMO-1L20	30	46	44	285		Interp.
	RBUMO-1L24	34	50	46	321		Interp.
	RBUMO-1L30	40	56	52	364		Interp.
	RBUMO-1L36	46	64	60	414		Interp.
	RBUMO-2H20	30	46	44	297		Interp.
	RBUMO-2H24	34	50	46	338		Interp.
	RBUMO-2H30	40	56	52	396		Interp.
	RBUMO-2H36	46	64	60	426		Interp.
	RBUMO-2H42	52	70	65	443		Interp.
	RBUMO-2H48	58	76	69	432		Interp.
	RBUMO-2H54	66	66	76	575	UUT: 812 lbs. w/42" curb	33
	RBUMO-2L20	30	46	44	297		Interp.
	RBUMO-2L24	34	50	46	338		Interp.
	RBUMO-2L30	40	56	52	396		Interp.
	RBUMO-2L36	46	64	60	426		Interp.
	RBUMO-2L42	52	70	65	443		Interp.
	RBUMO-2L48	58	76	69	432		Interp.
RBUMO-3H24	34	50	46	343		Interp.	
RBUMO-3H30	40	56	52	451		Interp.	
RBUMO-3H36	46	64	60	547		Interp.	

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>TABLE 7</b>
<b>Model Line:</b> 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 configuration must be of similar configuration and equivalent strength and stiffness to those tested.

<b>Building Code:</b> CBC 2019	<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$ $I_p = 1.5$
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Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
RBUMO	RBUMO-3H42	52	70	65	630		Interp.
	RBUMO-3H48	58	76	69	657		Interp.
	RBUMO-3H54	66	82	76	684		Interp.
	RBUMO-3H60	72	89	80	804		Interp.
	RBUMO-3L24	34	50	46	343		Interp.
	RBUMO-3L30	40	56	52	451		Interp.
	RBUMO-3L36	46	64	60	547		Interp.
	RBUMO-3L42	52	70	65	630		Interp.
	RBUMO-3L48	58	76	69	657		Interp.
	RBUMO-3L54	66	82	76	684		Interp.
	RBUMO-3L60	72	102	75	804	UUT: 954 lbs. w/42" curb	16

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



**1900532-CR-001 R0**

<b>Manufacturer:</b> Greenheck (Accurex)						<b>TABLE 8</b>	
<b>Model Line:</b> RSF, XRS, RSFP							
<b>Certified Product Construction Summary:</b> Steel Wheel; Vibration Isolators Support Drive Assembly; Belt Drive; Quick Release Hood Cover Latches RSF: Removable Carbon Steel Hood Cover; Heavy Gauge Carbon Steel Sides RSFP: Aluminum Hinged Hood Cover; Heavy Gauge Extruded Aluminum Louvers							
<b>Certified Options Summary:</b> Aluminum Filters; Disconnect Switches Fans are also sold under Accurex Brand as "XRS" (replace "RSF" with "XRS" for model number)							
<b>Mounting Configuration:</b> Base mounted rigid on up to 42" curb Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
<b>Building Code:</b> CBC 2019		<b>Seismic Certification Limits:</b>		$S_{DS} = 1.90\text{ g}$	$z/h = 1.0$	$I_p = 1.5$	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
Greenheck "RSF"  Accurex "XRS"	RSF-90	35	35	28	122	UUT: 162 lbs. w/14" curb	17
	RSF-100	42	42	28	205		Interp.
	RSF-120	48	48	28	250		Interp.
	RSF-150	54	54	32	575		Interp.
	RSF-180	62	62	35	725		Interp.
	RSF-200	73	73	40	822	UUT: 1006 lbs. w/42" curb	43
RSFP	RSFP-90	32	32	26	160		Interp.
	RSFP-100	36	36	28	225		Interp.
	RSFP-120	40	40	30	310		Interp.
	RSFP-150	46	46	34	369		Interp.
	RSFP-180	52	52	36	406		Interp.
	RSFP-200	58	58	42	452	UUT: 558 lbs. w/24" curb	18

# SPECIAL SEISMIC CERTIFICATION MODEL LINE NUMBERING



1900532-CR-001 R0

Manufacturer: Greenheck (Accurex)

## TABLE 9

### SQ/BSQ

**BSQ - 120 HP - VG/5/A**

**MODEL CONFIGURATION**

**BSQ** - Belt Drive **I**ndline Exhaust  
**SQ** - Direct Drive **I**ndline 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 = 1/3    15 = 1 1/2    75 = 7 1/2  
5 = 1/2    20 = 2    100 = 10  
7 = 3/4    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 = 1/3    20 = 2    100 = 10  
5 = 1/2    30 = 3    150 = 15  
7 = 3/4    50 = 5    200 = 20  
10 = 1  
**Fan Size**  
**Propeller Type**  
**L** - Low  
**H** - High



**SPECIAL SEISMIC CERTIFICATION  
MODEL LINE NUMBERING**



1900532-CR-001 R0

Manufacturer: Greenheck (Accurex)

**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)

RBUMO

**RBUMO - 2 H 36 - 10**

Upblast Propeller  
Roof Fan

Motor out of Airstream

Motor Horsepower

Level of  
Construction 1, 2, 3

Propeller Type

L-Low

H-High

Fan Size

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

1900532-CR-001 R0



<b>Manufacturer:</b> Greenheck (Accurex)	<b>Table Description:</b> Fan Wheels (Base Mounted - Isolated)	<b>TABLE 10.1</b>
<b>Model Line:</b> SQ, XID, BSQ, XIB		

<b>Building Code:</b> CBC 2019	<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$	$I_p = 1.5$
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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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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1900532-CR-001 R0



<b>Manufacturer:</b> Greenheck (Accurex)	<b>Table Description:</b> Fan Wheels (Base Mounted - Isolated)	<b>TABLE 10.1</b>
<b>Model Line:</b> SQ, XID, BSQ, XIB		

<b>Building Code:</b> CBC 2019	<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$	$I_p = 1.5$
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Component Type	Manufacturer	Model	Description	Notes	UUT
Fan Wheels	Greenheck	160HP	Welded Al., Backward Inclined		26
		180	Riveted Al., Backward Inclined		Interp.
		180HP	Riveted Al., Backward Inclined		27
		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.
				420	Riveted Al., Backward Inclined

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1900532-CR-001 R0



<b>Manufacturer:</b> Greenheck (Accurex)	<b>Table Description:</b> Fan Wheels (Ceiling mounted - Isolated)	<b>TABLE 10.2</b>
<b>Model Line:</b> SQ, XID, BSQ, XIB		

<b>Building Code:</b> CBC 2019	<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h=1.0$	$I_p = 1.5$
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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.		

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX



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<b>Manufacturer:</b> Greenheck (Accurex)		<b>Table Description:</b> Fan Wheels (Ceiling mounted - Isolated)			<b>TABLE 10.2</b>
<b>Model Line:</b> SQ, XID, BSQ, XIB					
<b>Building Code:</b> CBC 2019		<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$ $I_p = 1.5$			
Component Type	Manufacturer	Model	Description	Notes	UUT
Fan Wheels	Greenheck	420	Riveted Al., Backward Inclined		32
		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.
		160HP	Welded Al., Backward Inclined		Interp.
				160	Welded Al., Backward Inclined

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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<b>Manufacturer:</b> Greenheck (Accurex)	<b>Table Description:</b> Fan Propellers (Curb Mounted)	<b>TABLE 11.1</b>
<b>Model Line:</b> R & RBUMO		

<b>Building Code:</b> CBC 2019	<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$	$I_p = 1.5$
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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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<b>Manufacturer:</b> Greenheck (Accurex)		<b>Table Description:</b> Fan Propellers (Curb Mounted)			<b>TABLE 11.1</b>	
<b>Model Line:</b> R & RBUMO						
<b>Building Code:</b> CBC 2019		<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h=1.0$			$I_p = 1.5$	
<b>Component Type</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>	<b>Notes</b>	<b>UUT</b>	
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			

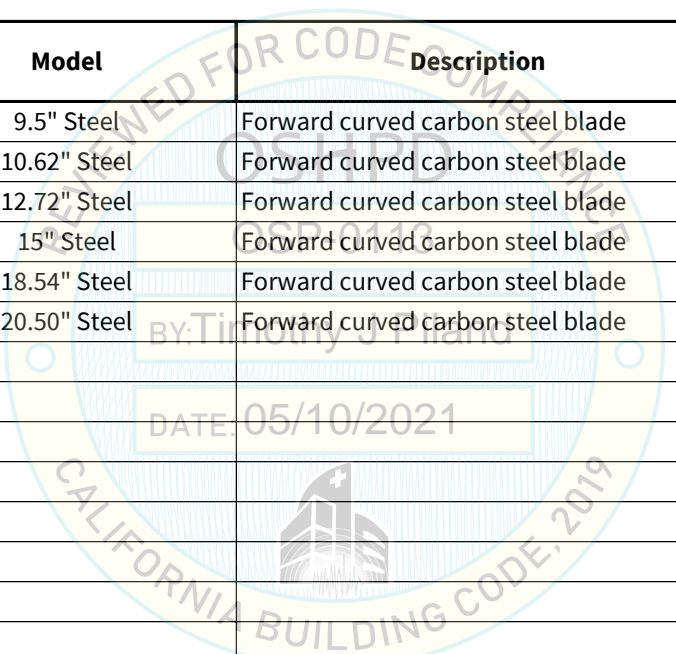


# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1900532-CR-001 R0



<b>Manufacturer:</b> Greenheck (Accurex)		<b>Table Description:</b> Fan Wheels (Curb Mounted)			<b>TABLE 12</b>
<b>Model Line:</b> RSF, XRS, RSFP					
<b>Building Code:</b> CBC 2019		<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$ $I_p = 1.5$			
Component Type	Manufacturer	Model	Description	Notes	UUT
Fan Wheels	LAU	9.5" Steel	Forward curved carbon steel blade		17
		10.62" Steel	Forward curved carbon steel blade		Interp.
		12.72" Steel	Forward curved carbon steel blade		Interp.
		15" Steel	Forward curved carbon steel blade		Interp.
		18.54" Steel	Forward curved carbon steel blade		Interp.
		20.50" Steel	Forward curved carbon steel blade		18, 43



# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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<b>Manufacturer:</b> Greenheck (Accurex)		<b>Table Description:</b> Filters & Filter Boxes (Base Mt. - Isolated)			<b>TABLE 13.1</b>
<b>Model Line:</b> SQ, XID, BSQ, XIB					
<b>Building Code:</b> CBC 2019		<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$		$I_p = 1.5$	
<b>Component Type</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>	<b>Notes</b>	<b>UUT</b>
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.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1900532-CR-001 R0



<b>Manufacturer:</b>	Greenheck (Accurex)	<b>Table Description:</b> Filters & Filter Boxes (Base Mt. - Isolated)	<b>TABLE 13.1</b>
<b>Model Line:</b>	SQ, XID, BSQ, XIB		

<b>Building Code:</b>	CBC 2019	<b>Seismic Certification Limits:</b>	$S_{DS} = 1.90 g$	$z/h = 1.0$	$I_p = 1.5$
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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

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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<b>Manufacturer:</b> Greenheck (Accurex)		<b>Table Description:</b> Filters & Filter Boxes (Ceiling - Isolated)			<b>TABLE 13.2</b>	
<b>Model Line:</b> SQ, XID, BSQ, XIB						
<b>Building Code:</b> CBC 2019		<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$			$I_p = 1.5$	
<b>Component Type</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Description</b>	<b>Notes</b>	<b>UUT</b>	
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.	

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1900532-CR-001 R0



<b>Manufacturer:</b> Greenheck (Accurex)	<b>Table Description:</b> Filters & Filter Boxes (Ceiling - Isolated)	<b>TABLE 13.2</b>
<b>Model Line:</b> SQ, XID, BSQ, XIB		

<b>Building Code:</b> CBC 2019	<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$	$I_p = 1.5$
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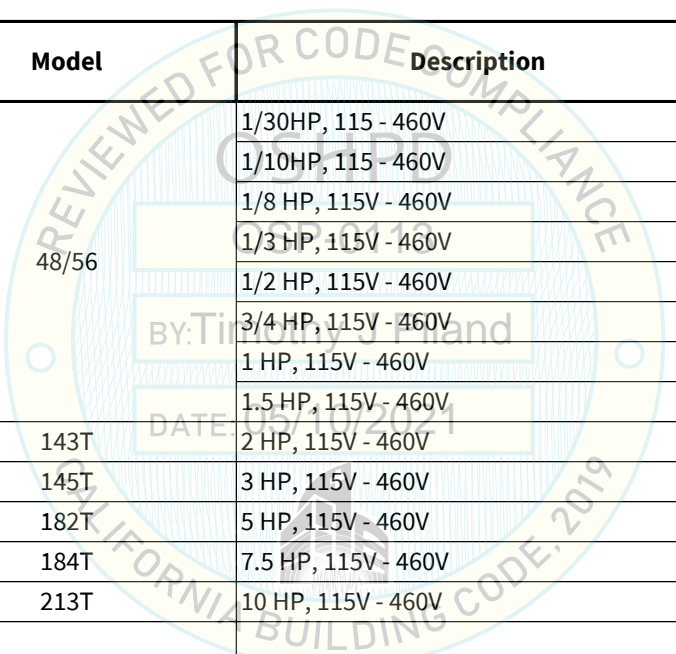
Component Type	Manufacturer	Model	Description	Notes	UUT
Filters	Research Products	20 x 20, Al. 2"	Aluminum		Interp.
		20 x 25, Al. 1"	Aluminum		Interp.
		20 x 25, Al. 2"	Aluminum		32
	Airguard Products	10 x 12, Paper 1"	Paper		Interp.
		10 x 12, Paper 2"	Paper		Interp.
		12 x 25, Paper 1"	Paper		Interp.
		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

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX



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<b>Manufacturer:</b> Greenheck (Accurex) <b>Table Description:</b> Motors (Base mounted - Isolated)		<b>TABLE 14.1</b>			
<b>Model Line:</b> SQ, XID, BSQ, XIB, R Hooded Props, RBUMO, RSF, XRS, RSFP					
<b>Building Code:</b> CBC 2019		<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$		$I_p = 1.5$	
Component Type	Manufacturer	Model	Description	Notes	UUT
Motors	Baldor	48/56	1/30HP, 115 - 460V		Extrap.
			1/10HP, 115 - 460V		Extrap.
			1/8 HP, 115V - 460V		25
			1/3 HP, 115V - 460V		Interp
			1/2 HP, 115V - 460V		Interp
			3/4 HP, 115V - 460V		Interp
			1 HP, 115V - 460V		27
			1.5 HP, 115V - 460V		Interp
			143T 2 HP, 115V - 460V		26
			145T 3 HP, 115V - 460V		Interp
			182T 5 HP, 115V - 460V		Interp
184T 7.5 HP, 115V - 460V		Interp			
213T 10 HP, 115V - 460V		28			





# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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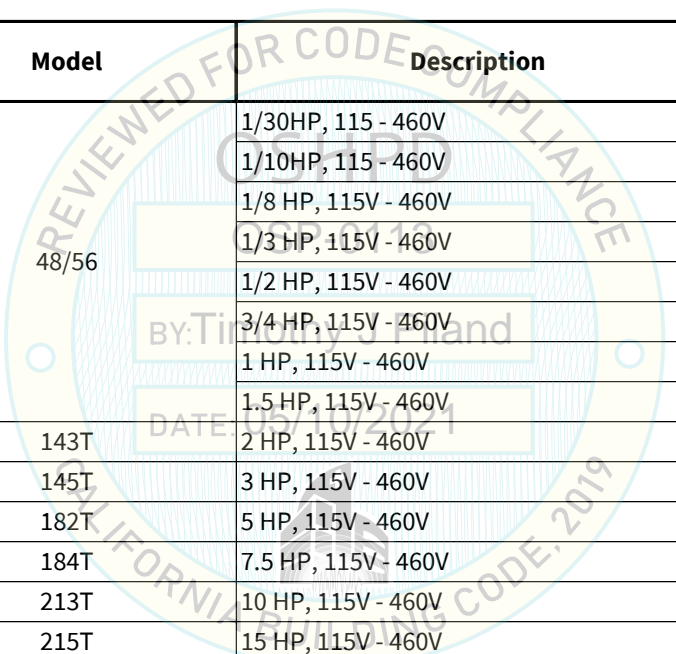


<b>Manufacturer:</b>	Greenheck (Accurex)	<b>Table Description:</b> Motors (Curb mounted)	
<b>Model Line:</b>	SQ, XID, BSQ, XIB, R Hooded Props, RBUMO, RSF, XRS, RSFP		

**TABLE 14.2**

<b>Building Code:</b>	CBC 2019	<b>Seismic Certification Limits:</b>	$S_{DS} = 1.90 g$	$z/h = 1.0$	$I_p = 1.5$
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Component Type	Manufacturer	Model	Description	Notes	UUT
Motor	Baldor	48/56	1/30HP, 115 - 460V		Extrap.
			1/10HP, 115 - 460V		Extrap.
			1/8 HP, 115V - 460V		Extrap.
			1/3 HP, 115V - 460V		Extrap.
			1/2 HP, 115V - 460V		Extrap.
			3/4 HP, 115V - 460V		Extrap.
			1 HP, 115V - 460V		40
			1.5 HP, 115V - 460V		Interp
		143T	2 HP, 115V - 460V		Interp
		145T	3 HP, 115V - 460V		35
		182T	5 HP, 115V - 460V		36
		184T	7.5 HP, 115V - 460V		Interp
		213T	10 HP, 115V - 460V		Interp
215T	15 HP, 115V - 460V		Interp		
254T	20HP, 115V - 460V		34		



# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

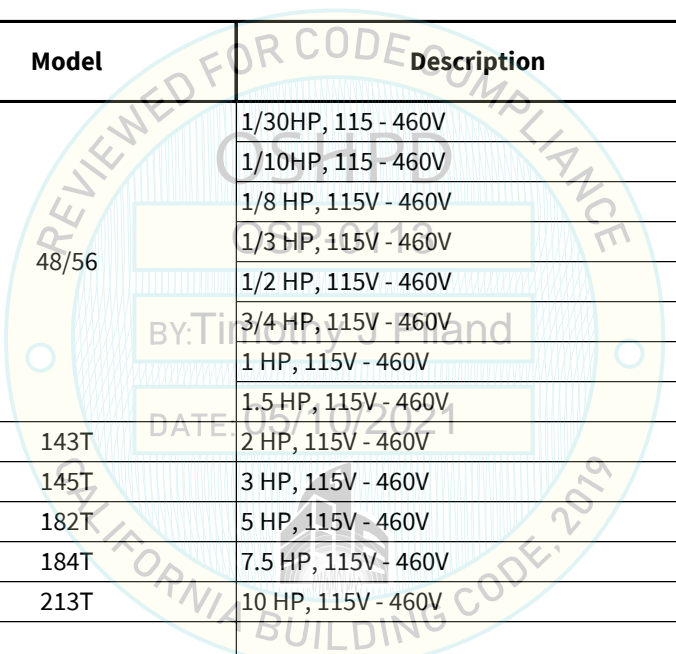
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<b>Manufacturer:</b>	Greenheck (Accurex)	<b>Table Description:</b> Motors (Ceiling mounted - Isolated)	<b>TABLE 14.3</b>
<b>Model Line:</b>	SQ, XID, BSQ, XIB, R Hooded Props, RBUMO, RSF, XRS, RSFP		

<b>Building Code:</b>	CBC 2019	<b>Seismic Certification Limits:</b>	$S_{DS} = 1.90 g$	$z/h = 1.0$	$I_p = 1.5$
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Component Type	Manufacturer	Model	Description	Notes	UUT
Motor	Baldor	48/56	1/30HP, 115 - 460V		30
			1/10HP, 115 - 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			



# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX



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<b>Manufacturer:</b> Greenheck (Accurex)		<b>Table Description:</b> Dampers (Curb Mounted)			<b>TABLE 15.1</b>
<b>Model Line:</b> R, RBUMO					
<b>Building Code:</b> CBC 2019		<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h=1.0$ $I_p = 1.5$			
Component Type	Manufacturer	Model	Description	Notes	UUT
Backdraft Damper	Greenheck	BD-100 Gravity	CS Frame, Al. blade		Extrap.
		WD-100 Gravity	CS Frame, Al. blade		42
		WD-100 Electric	CS Frame, Al. blade		Interp.
		WD-200 Electric	CS Frame, Al. blade		35, 36
		VCD-20 Electric	CS Frame, CS blade		40
		VCD-23 Electric	CS Frame, CS Blade w/seals		34
Butterfly Dampers	Greenheck	Aluminum			33
		Steel			16
Butterfly Damper Lifters	Greenheck	Fusible Link	Spring loaded arms with fusible link		33
	Honeywell	M6194	Motorized actuator		33
Damper Acuator	Schneider Electric	MP - 100A			42
		MP - 210	115 VAC Actuated		35, 36
	Honeywell	MS8104F1010	24 VAC Actuated		40
		MS4120F1006	460 VAC Actuated w/ 115 VAC Transformer		34

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

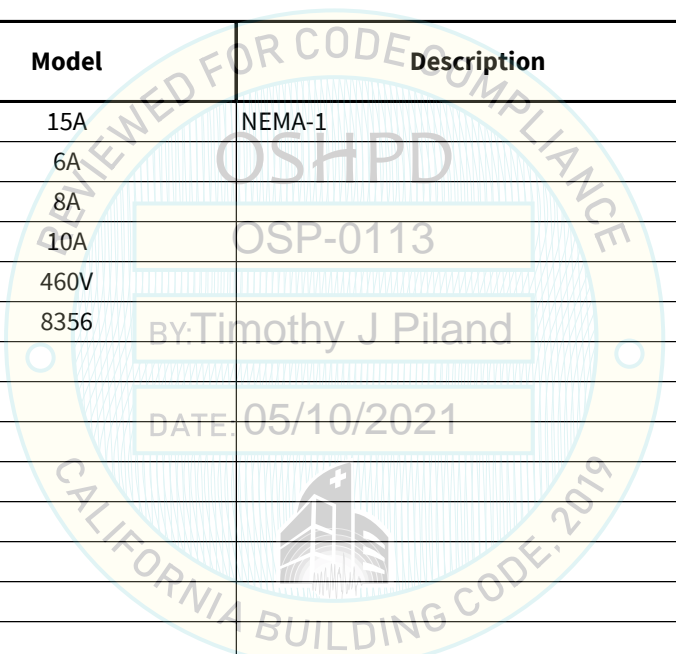
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<b>Manufacturer:</b>	Greenheck (Accurex)	<b>Table Description:</b>	Misc (Base Mounted - Isolated)	<b>TABLE 16.1</b>
<b>Model Line:</b>	SQ, XID, BSQ, XIB, R Hooded Props, RBUMO, RSF, XRS, RSFP			

<b>Building Code:</b>	<b>CBC 2019</b>	<b>Seismic Certification Limits:</b>	$S_{DS} = 1.90 g$	$z/h = 1.0$	$I_p = 1.5$
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Component Type	Manufacturer	Model	Description	Notes	UUT
Disconnect Switches	Square-D Disconnect	15A	NEMA-1		28
Speed Controllers	Raffel Systems	6A			25
		8A			Interp.
		10A			26
Vari-Green Drive	Vari-Green	460V			26
End Switches	ASCO	8356			25



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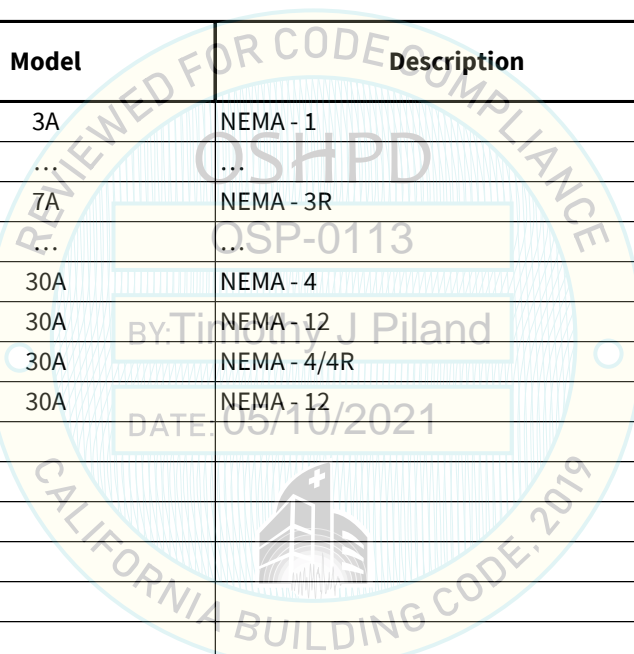
1900532-CR-001 R0



<b>Manufacturer:</b> Greenheck (Accurex)	<b>Table Description:</b> Misc (Curb Mounted)	<b>TABLE 16.2</b>
<b>Model Line:</b> SQ, XID, BSQ, XIB, R Hooded Props, RBUMO, RSF, XRS, RSFP		

<b>Building Code:</b> CBC 2019	<b>Seismic Certification Limits:</b> $S_{DS} = 1.90 g$ $z/h = 1.0$	$I_p = 1.5$
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Component Type	Manufacturer	Model	Description	Notes	UUT
Disconnect Switches	Square-D Disconnect	3A	NEMA - 1		Extrap.
		...	...		Extrap.
		7A	NEMA - 3R		34, 36
		...	OSP-0113		Interp.
	ABB	30A	NEMA - 4		35, 36, 43
		30A	NEMA - 12		40
		30A	NEMA - 4/4R		42
		30A	NEMA - 12		34



# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

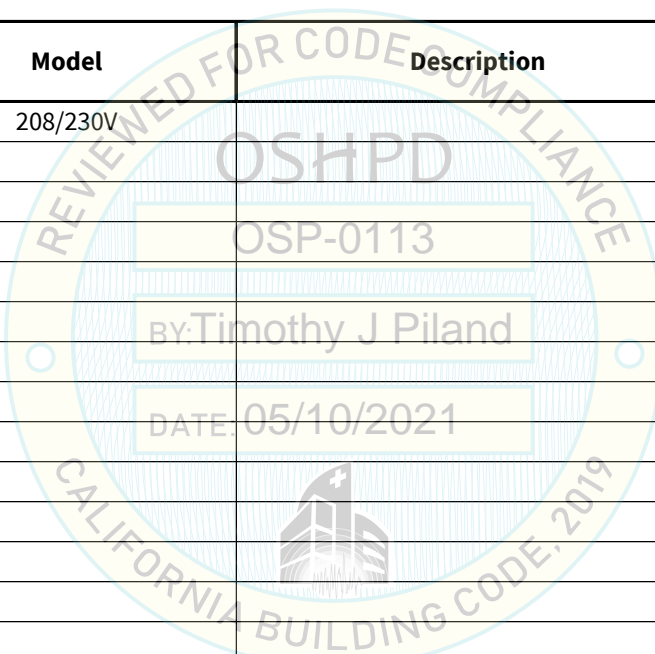
1900532-CR-001 R0



<b>Manufacturer:</b> Greenheck (Accurex)	<b>Table Description:</b> Misc (Ceiling Mounted - Isolated)	<b>TABLE 16.3</b>
<b>Model Line:</b> SQ, XID, BSQ, XIB, R Hooded Props, RBUMO, RSF, XRS, RSFP		

<b>Building Code:</b> CBC 2019	<b>Seismic Certification Limits:</b>	$S_{DS} = 1.90 g$	$z/h = 1.0$	$I_p = 1.5$
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Component Type	Manufacturer	Model	Description	Notes	UUT
Vari-Green Drive	Vari-Green	208/230V			29





# UNIT UNDER TEST (UUT) SUMMARY SHEET



**1900532-CR-001 R0**

<b>Manufacturer:</b>		Greenheck (Accurex)				
<b>Model Line:</b>		SQ, XID, BSQ, XIB, R Hooded Props, RBUMO, RSF, XRS, RSFP				
UUT	Unit Description	Report Number	Testing Laboratory	S <sub>DS</sub>	z/h	I <sub>p</sub>
8	SQ-160-A	3298 and Addendum 1900532-PC-001-R0	ANCO Engineers, Inc. <sup>1</sup>	1.9	1	1.5
11	RE2-18-421-A7	3298 and Addendum 1900532-PC-001-R0	ANCO Engineers, Inc. <sup>1</sup>	1.9	1	1.5
14	RBE-3L72-150	3298 and Addendum 1900532-PC-001-R0	ANCO Engineers, Inc. <sup>1</sup>	1.9	1	1.5
16	RBUMO-3L60-100	3298 and Addendum 1900532-PC-001-R0	ANCO Engineers, Inc. <sup>1</sup>	1.9	1	1.5
17	RSF-90-10	3298 and Addendum 1900532-PC-001-R0	ANCO Engineers, Inc. <sup>1</sup>	1.9	1	1.5
18	RSFP-200-75	3298 and Addendum 1900532-PC-001-R0	ANCO Engineers, Inc. <sup>1</sup>	1.9	1	1.5
25	SQ-95-D	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
26	SQ-160HP-VG	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
27	BSQ-180HP-10	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
28	BSQ-420-100	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
29	SQ-60-VG	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
30	SQ-95-E	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
31	BSQ-70-7	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
32	BSQ-420-100	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
33	RBUMO-2H54-50	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
34	RBCF-3H72-200	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5

**Notes:**

<sup>1</sup> See addendum with supplemental back calculations to ANCO 3298 Test Report to justify SDS level.

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**

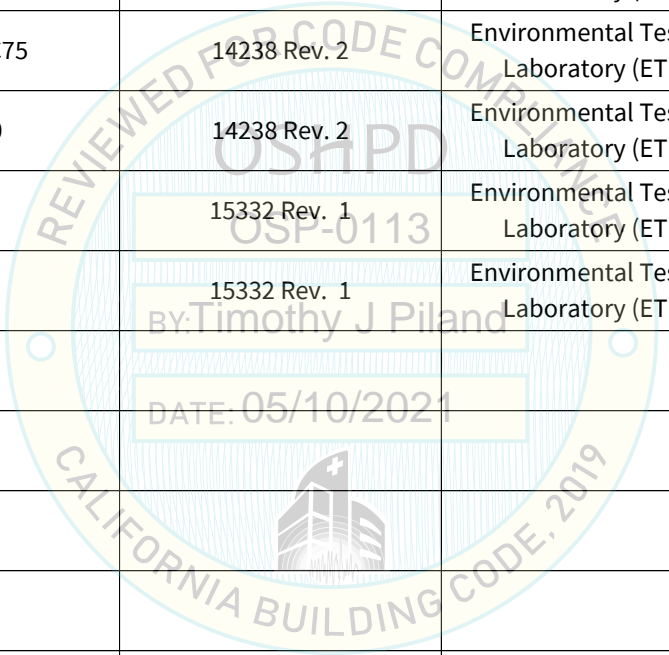


**1900532-CR-001 R0**

**Manufacturer:** Greenheck (Accurex)

**Model Line:** SQ, XID, BSQ, XIB, R Hooded Props, RBUMO, RSF, XRS, RSFP

UUT	Unit Description	Report Number	Testing Laboratory	S <sub>DS</sub>	z/h	I <sub>p</sub>
35	RBF-2L36-30	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
36	RBF-1H36-30	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
40	RBS-1L30-10	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
42	RCE3-54-323-C75	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
43	RSF-200-100	14238 Rev. 2	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
44	SQ-95-D	15332 Rev. 1	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5
45	SQ-95-D	15332 Rev. 1	Environmental Testing Laboratory (ETL)	2.0 3.2	1 0	1.5



**Notes:**

# UNIT UNDER TEST (UUT) SUMMARY SHEET



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 8</b>
<b>Model Line:</b> SQ	
<b>Model Number:</b> SQ-160-A <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Carbon steel housing; Backward inclined aluminum wheel;

**Options/Subcomponent Summary:**  
3 HP Motor, bolted access panels, Integral duct connection flanges, NEMA 1 toggle switch

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
125	26.0	26.0	28.0	N/A	N/A	N/A

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2004)	1.9	1.0	1.5	3.04	2.28	1.27	0.51

**Test Mounting Details:**



Ceiling suspended using (4) 1/4" A307 threaded rods, (4) Mason RW30N-X-33 isolators, & (4) diag. 3/32" diameter steel cable braces w/ 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.

# UNIT UNDER TEST (UUT) SUMMARY SHEET



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 11</b>
<b>Model Line:</b> RE2	
<b>Model Number:</b> RE2-18-421-A7 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Welded Carbon Steel Wheel

**Options/Subcomponent Summary:**  
3/4 HP motor, Tall base, NEMA 1 toggle switch

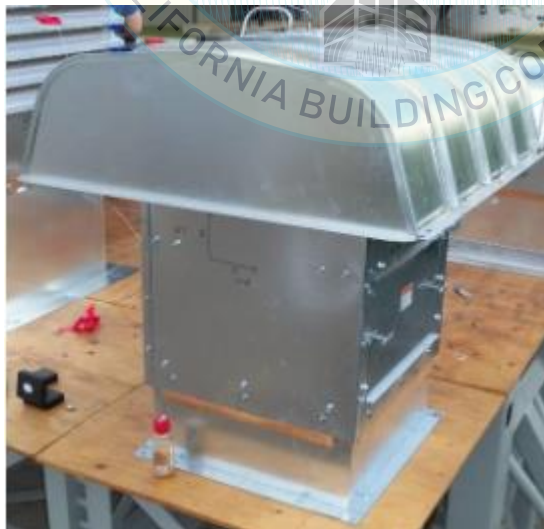
**UUT Properties**

Weight** (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height*	Front-Back	Side-Side	Vertical
221	48.0	51.0	51.8	8.1	10.8	11.3

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2004)	1.9	1.0	1.5	3.04	2.28	1.27	0.51

**Test Mounting Details:**



\*Height includes curb height  
\*\*Weight includes curb weight

Base mounted rigid on GPI-28-G12 12" 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.

# UNIT UNDER TEST (UUT) SUMMARY SHEET



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 14</b>
<b>Model Line:</b> RBE	
<b>Model Number:</b> RBE-3L72-150 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Welded carbon steel wheel

**Options/Subcomponent Summary:**  
15 HP Motor, Wire mesh bird screens, Adjustable motor plate, Adjustable motor pulley, Fan shaft pulley, Static free belts, NEMA 3R toggle switch.

**UUT Properties**

Weight** (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height*	Front-Back	Side-Side	Vertical
1365	136.0	135.5	74.0	5.8	7.6	5.9

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2004)	1.9	1.0	1.5	3.04	2.28	1.27	0.51

**Test Mounting Details:**



\*Height includes curb height  
\*\*Weight includes curb weight

Base mounted rigid on GPF-82-G24 24" 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.



# UNIT UNDER TEST (UUT) SUMMARY SHEET



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 16</b>
<b>Model Line:</b> RBUMO	
<b>Model Number:</b> RBUMO-3L60-100 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Welded carbon steel wheel and carbon steel fan base.

**Options/Subcomponent Summary:**  
10 HP Motor, Motor cover, Belt tube, Steel butterfly dampers, Adjustable motor plate, Variable pitch motor pulley, Static free belts, Construction level III, Steel damper, Damper lifters with 165 F fusible links, High temp rating, NEMA 3R toggle switch

**UUT Properties**

Weight** (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height*	Front-Back	Side-Side	Vertical
954	72.1	102	92.5	6.6	6.0	8.1

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2004)	1.9	1.0	1.5	3.04	2.28	1.27	0.51

**Test Mounting Details:**



\*Height includes curb height  
\*\*Weight includes curb weight

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.



# UNIT UNDER TEST (UUT) SUMMARY SHEET



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 17</b>
<b>Model Line:</b> RSF	
<b>Model Number:</b> RSF-90-10 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Carbon Steel wheel

**Options/Subcomponent Summary:**  
1 HP Motor, Adjustable motor pulley, Adjustable motor plate, Static free belts, 1 inch washable filters, NEMA 1 toggle switch

**UUT Properties**

Weight** (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height*	Front-Back	Side-Side	Vertical
162	34.6	34.6	39.5	6.4	6.6	11.8

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2004)	1.9	1.0	1.5	3.04	2.28	1.27	0.51

**Test Mounting Details:**



\*Height includes curb height  
\*\*Weight includes curb weight

Base mounted rigid on GPI-26-G24 24" 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.

# UNIT UNDER TEST (UUT) SUMMARY SHEET



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 18</b>
<b>Model Line:</b> RSFP	
<b>Model Number:</b> RSFP-200-75 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Carbon Steel wheel

**Options/Subcomponent Summary:**  
7.5 HP Motor, Adjustable motor pulley, Adjustable motor plate, Static free belts, 1 inch washable filters.

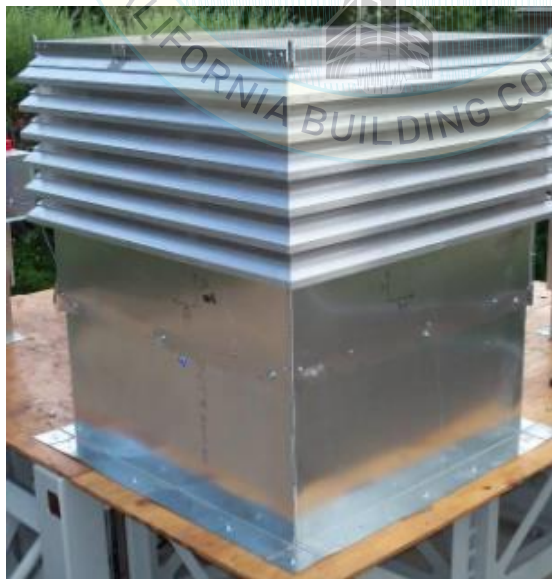
**UUT Properties**

Weight** (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height*	Front-Back	Side-Side	Vertical
558	58.1	58.1	63.5	5.6	4.5	13.5

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2004)	1.9	1.0	1.5	3.04	2.28	1.27	0.51

**Test Mounting Details:**



\*Height includes curb height  
\*\*Weight includes curb weight

Base mounted rigid on GPF-52-G24 24" 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.

# UNIT UNDER TEST (UUT) SUMMARY SHEET



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 25</b>
<b>Model Line:</b> SQ	
<b>Model Number:</b> SQ-95-D <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Carbon steel housing; Backward inclined aluminum wheel; Two bolted access panels; Integral duct connection flanges; Sleeve bearing motor; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
Switch: NEMA-1, Toggle; Junction box mounted & wired; Inlet/Outlet Guard; 6 Amp Solid state speed control; Spring Vibration Isolators

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
41.5	19	15	15	3.2	4.5	6.3

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85
		3.2	0.0					

**Test Mounting Details:**



Base mounted - Isolated using (4) VMC AMSR-1C-50 isolators w/ (1) 1/2" Grade 8 bolt attaching each Isolator to unit & (2) 1/2" Grade 8 bolts attaching each isolator to table.  
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



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 26</b>
<b>Model Line:</b> SQ	
<b>Model Number:</b> SQ-160HP-VG <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Carbon steel housing; Backward inclined aluminum wheel; Two bolted access panels; Integral duct connection flanges; Ball bearing motor; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
Motor: Vari-Green EC motor 0-10 VDC Input Signal; Control: Vari-Green Dial on Exterior of Fan Housing, Mounted and Wired; Switch: NEMA-1, Toggle; High Pressure (HP) wheel, Junction box mounted & wired; Isolators & brackets, Spring Vibration Isolators

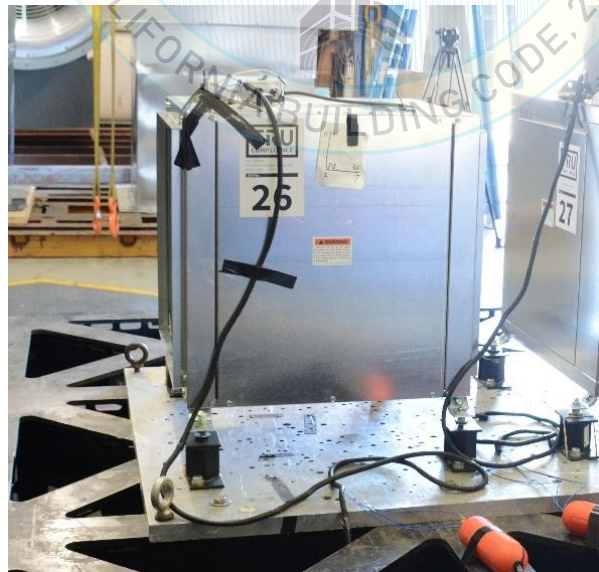
**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
110.5	29	26	26	2.8	6.4	17.7

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85
		3.2	0.0					

**Test Mounting Details:**



Base mounted - Isolated using (4) VMC AMSR-1C-100 isolators w/ (1) 1/2" Grade 8 bolt attaching each Isolator to unit & (2) 1/2" Grade 8 bolts attaching each isolator to table.  
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



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 27</b>
<b>Model Line:</b> BSQ	
<b>Model Number:</b> BSQ-180HP-10 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Carbon steel housing; Backward inclined aluminum wheel; Two bolted access panels; Integral duct connection flanges; Ball bearing motor; Adjustable moto pulley; Adjustable motor plate; Fan shaft mounted in ball bearing pillow blocks; Static free belts; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
Switch: NEMA-1, Toggle; Junction box mounted & wired; Motor cover; Bearings with grease fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs).

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
182	34	27	41	4.1	3.3	6.4

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85
		3.2	0.0					

**Test Mounting Details:**



Base mounted - Isolated using (4) VMC AMSR-1C-100 isolators w/ (1) 1/2" Grade 8 bolt attaching each Isolator to unit & (2) 1/2" Grade 8 bolts attaching each isolator to table.  
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



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 28</b>
<b>Model Line:</b> BSQ	
<b>Model Number:</b> BSQ-420-100 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Carbon steel housing; Backward inclined aluminum wheel; Two bolted access panels; Integral duct connection flanges; Ball bearing motor; Adjustable motor pulley; Adjustable motor plate; Fan shaft mounted in ball bearing pillow blocks; Static free belts; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
NEMA premium efficient motor; Switch: NEMA-1, Toggle; Junction box mounted & wired; Insulated Housing: 1" thick on fan housing and filter box; Sloped filter box, 2" Aluminum and Paper filters; Isolators & brackets, Bearings with grease fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs).

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1236	96	58	76	5.2	3.5	8.4

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85	
		3.2	0.0						

**Test Mounting Details:**



Base mounted - Isolated using (6) VMC MSH-1E-400 isolators w/ (1) 5/8" Grade 8 bolt attaching each Isolator to unit & (4) 5/8" Grade 8 bolts attaching each isolator to the table.  
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



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 29</b>
<b>Model Line:</b> SQ	
<b>Model Number:</b> SQ-60-VG <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Carbon steel housing; Backward inclined aluminum wheel; Two bolted access panels; Integral duct connection flanges; Sleeve bearing motor; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
Motor: Vari-Green EC motor 0-10 VDC Input Signal; Control: Vari-Green Dial on Exterior of Fan Housing, Mounted and Wired; Switch: NEMA-1, Toggle; Junction box mounted & wired; Side discharge: veiwing inlet with motor on top.

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
33	15	12	12	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85	
		3.2	0.0						

**Test Mounting Details:**



Ceiling suspended - Isolated using (4) 3/8" Ø A307 threaded rods w/ rod stiffeners & (4) Mason RW30N-A-12 isolators & (4) 3/32" Ø diag. cable braces w/ 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



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 30</b>
<b>Model Line:</b> SQ	
<b>Model Number:</b> SQ-95-E <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Carbon steel housing; Backward inclined aluminum wheel; Two bolted access panels; Integral duct connection flanges; Sleeve bearing motor; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
Switch: NEMA-1, Toggle; Junction box mounted & wired; Solid state speed control, 6 Amp.

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
44.5	19	15	15	N/A	N/A	N/A

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85
		3.2	0.0					

**Test Mounting Details:**



Ceiling suspended - Isolated using (4) 3/8" Ø A307 threaded rods w/ rod stiffeners & (4) Mason RW30N-A-18 isolators & (4) 3/32" Ø diag. cable braces w/ 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



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 31</b>
<b>Model Line:</b> BSQ	
<b>Model Number:</b> BSQ-70-7 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Carbon steel housing; Backward inclined aluminum wheel; Two bolted access panels; Integral duct connection flanges; Ball bearing motor; Adjustable motor pulley; Adjustable motor plate; Fan shaft mounted in ball bearing pillow blocks; Static free belts; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
Switch: NEMA-1, Toggle; Junction box mounted & wired; Aluminum housing; Isolators mounting brackets (PN 800201).

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
74.5	27	17	31	N/A	N/A	N/A

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85
		3.2	0.0					

**Test Mounting Details:**



Ceiling suspended - Isolated using (4) 3/8" Ø A307 threaded rods w/ rod stiffeners & (2) Mason RW30N-A-18 & (2) Mason RW30N-A-41 isolators & (4) 3/32" Ø diag. cable braces w/ 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



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 32</b>
<b>Model Line:</b> BSQ	
<b>Model Number:</b> BSQ-420-100 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Carbon steel housing; Backward inclined aluminum wheel; Two bolted access panels; Integral duct connection flanges; Ball bearing motor; Adjustable motor pulley; Adjustable motor plate; Fan shaft mounted in ball bearing pillow blocks; Static free belts; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
NEMA premium efficient motor; Switch: NEMA-1, Toggle; Junction box mounted & wired; Insulated Housing: 1" thick on fan housing and filter box; Sloped filter box, 2" Aluminum & Paper filters; Isolators; Bearings with grease fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs).

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1236	96	58	76	N/A	N/A	N/A

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85
		3.2	0.0					

**Test Mounting Details:**



Ceiling suspended - Isolated using (6) 1/2" Ø A307 threaded rods w/ rod stiffeners & (4) Mason RW30N-A-410 & (2) Mason RW30N-A-222 isolators & (6) 1/4" Ø diag. cable braces w/ Mason SCB-3/SCBH-3 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



1900532-CR-001 R0

<b>Manufacturer:</b>	Greenheck (Accurex)	<b>UUT 33</b>
<b>Model Line:</b>	RBUMO	
<b>Model Number:</b>	RBUMO-2H54-50	
<b>Serial Number:</b>		N/A

**Product Construction Summary:**  
 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 zerks; Fixed pitched drives; Static free belts; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
 NEMA Premium Efficient Motor; Switch: NEMA-3R, Toggle; Junction Box Mounted & 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 w/ 120/230V Transformer); Bearings with Grease Fittings.

**UUT Properties**

Weight** (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height*	Front-Back	Side-Side	Vertical
812	66	66	111	14.2	13.8	9.9

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85
		3.2	0.0					

**Test Mounting Details:**



\*Height includes curb height  
 \*\*Weight includes curb weight

Base mounted rigid on GPF-66-G42 42" tall roof curb using (24) 5/16" self-tapping screws to attach fan to curb & (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.

# UNIT UNDER TEST (UUT) SUMMARY SHEET



1900532-CR-001 R0

<b>Manufacturer:</b>	Greenheck (Accurex)	<b>UUT 34</b>
<b>Model Line:</b>	RBCF	
<b>Model Number:</b>	RBCF-3H72-200	
<b>Serial Number:</b>		N/A

**Product Construction Summary:**  
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; Adjustable motor plate; Adjustable motor pulley; Fan shaft pulley; Fan shaft mounted in ball bearing pillow blocks; Static free belts; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
Hood; NEMA Premium Efficient Motor; 30A Disconnect; Switch: NEMA-1, Toggle; Junction Box Mounted & Wired; Roof Curb-Galv., GPF-83-G42, Under Sized 0.5" Total; Tall Base with Latched Access Door; Cast Aluminum Propeller; Aluminum Construction; Damper Mounted (VCD-23-PB-72X72); Damper Actuator (MS4120F1006), 460 VAC Actuated w/ 115 VAC Transformer; 0.5" Hood Insulation; Bearings with Grease Fittings; Extended Lube Lines. Insect Screen Base.

<b>UUT Properties</b>						
Weight** (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height*	Front-Back	Side-Side	Vertical
1512	136	147	113	25.1	7.7	15.7

<b>UUT Highest Passed Seismic Run Information</b>									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85	
		3.2	0.0						

**Test Mounting Details:**



\*Height includes curb height  
\*\*Weight includes curb weight

Base mounted rigid on GPF-83-G42 42" tall roof curb using (36) 5/16" self-tapping screws to attach fan to curb & (16) 5/16" self-tapping screws to attach curb to 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



1900532-CR-001 R0

<b>Manufacturer:</b>	Greenheck (Accurex)	<b>UUT 35</b>
<b>Model Line:</b>	RBF	
<b>Model Number:</b>	RBF-2L36-30	
<b>Serial Number:</b>		N/A

**Product Construction Summary:**  
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); Adjustable motor plate; Adjustable motor pulley; Fan shaft pulley; Fan shaft mounted in ball bearing pillow blocks; Static free belts; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
NEMA Premium Efficient Motor; Switch: NEMA-3R, Toggle; Junction Box Mounted & 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.

**UUT Properties**

Weight** (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height*	Front-Back	Side-Side	Vertical
835	94	87	98	4.4	4.9	11.0

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85
		3.2	0.0					

**Test Mounting Details:**



\*Height includes curb height  
\*\*Weight includes curb weight

Base mounted rigid on GPF-46-G42 42" tall roof curb using (24) 5/16" self-tapping screws to attach fan to curb & (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



1900532-CR-001 R0

<b>Manufacturer:</b>	Greenheck (Accurex)	<b>UUT 36</b>
<b>Model Line:</b>	RBF	
<b>Model Number:</b>	RBF-1H36-30	
<b>Serial Number:</b>		N/A

**Product Construction Summary:**  
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); Adjustable motor plate; Adjustable motor pulley; Fan shaft pulley; Fan shaft mounted in ball bearing pillow blocks; Static free belts; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
NEMA Premium Efficient Motor; Switch: NEMA-3R, Toggle; Junction Box Mounted & 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.

<b>UUT Properties</b>						
Weight** (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height*	Front-Back	Side-Side	Vertical
835	94	87	98	6.5	7.5	12.1

<b>UUT Highest Passed Seismic Run Information</b>									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85	
		3.2	0.0						

**Test Mounting Details:**



\*Height includes curb height  
\*\*Weight includes curb weight

Base mounted rigid on GPF-46-G42 42" tall roof curb using (24) 5/16" self-tapping screws to attach fan to curb & (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



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 40</b>
<b>Model Line:</b> RBS	
<b>Model Number:</b> RBS-1L30-10 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
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); Adjustable motor plate; Adjustable motor pulley; Fan shaft pulley; Fan shaft mounted in ball bearing pillow blocks; Static free belts; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
NEMA Premium Efficient Motor; Switch: NEMA-3R, Toggle; 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.

<i>UUT Properties</i>						
Weight** (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height*	Front-Back	Side-Side	Vertical
420	75	75	63.3	15.2	9.8	28.9

<i>UUT Highest Passed Seismic Run Information</i>								
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2015)	2.0 3.2	1.0 0.0	1.5	3.2	2.4	2.13	0.85

**Test Mounting Details:**



\*Height includes curb height  
\*\*Weight includes curb weight

Base mounted rigid on GPF-40-G12 12" tall roof curb using (24) 5/16" self-tapping screws to attach fan to curb & (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



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 42</b>
<b>Model Line:</b> RCE3	
<b>Model Number:</b> RCE3-54-323-C75 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
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 propeller; Corrosion resistant fasteners

**Options/Subcomponent Summary:**  
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.

**UUT Properties**

Weight** (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height*	Front-Back	Side-Side	Vertical
1525	112	111	108	5.5	6.9	11.1

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85
		3.2	0.0					

**Test Mounting Details:**



\*Height includes curb height  
\*\*Weight includes curb weight

Base mounted rigid on GPF-64-G42 42" tall roof curb using (20) 5/16" self-tapping screws to attach fan to curb & (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



1900532-CR-001 R0

<b>Manufacturer:</b>	Greenheck (Accurex)	<b>UUT 43</b>
<b>Model Line:</b>	RSF	
<b>Model Number:</b>	RSF-200-100	
<b>Serial Number:</b>		N/A

**Product Construction Summary:**  
Removable insulated hood cover; Curb cap with prepunched mounting holes; Blower and motor assembly isolated on shock mounts; Forward curved steel fan wheel; Adjustable motor pulley; Adjustable motor plate; Ball bearing motor; Fan shaft mounted in ball bearing pillow blocks; Static free belts; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
NEMA Premium Efficient Motor; Roof Curb-Galv., GPF-52-G42, Under Sized 0.5" Total; Galvanized Housing; Standard 1" Washable Aluminum Filters; Duct Adapter.

<i>UUT Properties</i>						
Weight** (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height*	Front-Back	Side-Side	Vertical
1006	73	73	81.3	5.8	6.0	13.1

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85	
		3.2	0.0						

**Test Mounting Details:**



\*Height includes curb height  
\*\*Weight includes curb weight

Base mounted rigid on GPF-52-G42 42" tall roof curb using (24) 5/16" self-tapping screws to attach fan to curb & (20) 5/16" self-tapping screws to attach curb to 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



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 44</b>
<b>Model Line:</b> SQ, XID, BSQ, XIB, R Hooded Props, RBUMO, RSF, XRS, RSFP	
<b>Model Number:</b> SQ-95-D <b>Serial Number:</b> 15922671	

**Product Construction Summary:**  
Carbon steel housing; Backward inclined composite wheel; Two bolted access panels; Integral duct connection flanges; Sleeve bearing motor; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
Switch: NEMA-1, Toggle; Junction box mounted & wired; Inlet/Outlet Guard; 6 Amp Solid state speed control; Spring Vibration Isolators

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
56	19	15	15	3.55	5.31	7.40

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	2.13	0.85	
		3.2	0.0						

**Test Mounting Details:**



Base mounted - Isolated using (4) VMC AMSR-1C-50 isolators w/ (1) 1/2" Grade 8 bolt each attaching Isolator to unit & (2) 1/2" Grade 8 bolts each attaching isolator to table.  
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



1900532-CR-001 R0

<b>Manufacturer:</b> Greenheck (Accurex)	<b>UUT 45</b>
<b>Model Line:</b> SQ, XID, BSQ, XIB, R Hooded Props, RBUMO, RSF, XRS, RSFP	
<b>Model Number:</b> SQ-95-E <b>Serial Number:</b> 15922672	


**Product Construction Summary:**  
Carbon steel housing; Backward inclined composite wheel; Two bolted access panels; Integral duct connection flanges; Sleeve bearing motor; Corrosion resistant fasteners.

**Options/Subcomponent Summary:**  
Switch: NEMA-1, Toggle; Junction box mounted & wired; Solid state speed control, 6 Amp.

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
65.5	19	15	15	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2019	ICC-ES AC156 (2015)	2.00	1.0	1.5	3.2	2.4	2.13	0.85	
		3.2	0.0						

**Test Mounting Details:**



Ceiling suspended - Isolated using (4) 3/8" Ø A307 threaded rods w/ rod stiffeners, (4) Kinetics Noise Control SHAA-25 Isolators mounted to fixture with (1) 3/8" Grade 5 bolt each, and (2) 3/32" Ø diag. 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.