

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

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0502
HCAI Special Seismic Certification Preapproval (OSP)	
Type: New X Renewal	
Manufacturer Information	
Manufacturer: Greenheck Fan Corporation	
Manufacturer's Technical Representative: Mark Vanderkooy	
Mailing Address: 1100 Greenheck Drive, Schofield, WI 54476	
Telephone: (715) 841-8538 Email: mark.vanderko	oy@greenheck.com
Product Information	
Product Name: Exhaust/Smoke Control Fans	
Product Model Number(s): QEI-9-300 to QEI-60-300	E.
Product Category: Exhaust/Smoke Control FansSP-0502	i chi
Product Sub-Category: NA	
General Description: Inline mixed flow fans. Y: Timothy J. Pilano	
Mounting Description: Base mounted or Ceiling suspended with spring is	solators.
Tested Seismic Enhancements: None None	
Applicant Information	
Applicant Company Name: TRU Compliance, by Structural Integrity Assoc	ziates
Contact Person: Daniel Zentner	
Mailing Address: 233 SW Wilson Ave, Suite 101, Bend, OR 97702	
Telephone: (541) 292-5839 Email: dzentner@strue	ctint.com
Title: Program Manager	



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

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OSP-0502



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

California Licensed Structural Engineer	Responsible for the Engineering and Test Report(s)
Company Name: STRUCTURAL INTEGRITY	ASSOCIATES, INC.
Name: LACHEZAR HANDZHIYSKI	California License Number: S6515
Mailing Address: 5215 Hellyer Avenue, Suite 2	10, San Jose, CA 95138
Telephone: (669) 437-0200	Email: Lhandzhiyski@StructInt.com
Certification Method	
GR-63-Core X ICC-ES AC1	56 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):	
	FOR CODE CON
Testing Laboratory	
Company Name: ENVIRONMENTAL TESTING	ABORATORIES, INC. (ETL)
Contact Person: Jeremy Lange	
Mailing Address: 11034 Indian Trail, Dallas TX	75229-3513
Telephone: (972) 247-9657	Email: jeremy@etIdallas.com
	DATE: 04/23/2025
CALIFOR	
To.	
7.	VI
	BUILDING



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OSP-0502



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

Seismic Parameters

Design Basis of Equipment or	Components (Fp/Wp) = 4.5 (SDS = 2.0g); 2.4 (SDS = 3.2g)						
SDS (Design spectral res	sponse accelei	ation at short per	iod, g) = <u>2.0 (z/h</u>	= 1); 3.2 (z/ł	ו = 0)					
ap (Amplification factor)	=	2.5								
Rp (Response modificat	ion factor) =	2								
Ω_0 (System overstrength	n factor) =	2.0								
Ip (Importance factor) =										
z/h (Height ratio factor) =	z/h (Height ratio factor) = 1 and 0									
Natural frequencies (Hz)) =	See Attachment								
Overall dimensions and	weight =	See Attachment	ODF							
		EDF								
HCAI Approval (For Office	Use Only) - A	Approval Expire	es on 04/23/203	1						
Date: 4/23/2025	RF.	OSF	-0502	F						
Name: Timothy Piland				Title:	Senior Structural Engineer					
Special Seismic Certification V	/alid <mark>Up to:</mark> SDS	6 (g) = See Abov	V J. Pliand /e	z/h =	See Above					
Condition of Approval (if applic	able):	DATE: 04	/23/2025							
	ALTEO	PNIA BUIL	DINGCO	NOV XXX						



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OSP-0502

SPECIAL SEISMIC CERTIFICATION **CERTIFIED COMPONENT MATRIX**

TRU PROJECT NO. 2551654-001, Rev. 0

Greenheck Fan Corporation



TABLE 1

Certified Product Construction Summary:

QEI

UL-705; 300 Construction; Belt Drive, Carbon Steel Shaft; Carbon Steel Housing; Carbon Steel Wheel

Certified Options Summary:

Manufacturer:

Model Line:

Motor Cover, Bolted access door, Copper and nylon extended lube lines, Inlet and outlet guard, Slip fit inlet & outlet, Punched inlet & outlet flanges, Belt guard, Belt tube, Mounting base, 80k and 200k bearings, Ceiling hung with motor in position E, G, or C.

Mounting Configuration:

EOR Ceiling mounted - spring vibration isolated Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

uilding Code: CBC 2022	L'H	Seismic C	ertificatio	on Limits:		-	z/h=1.0 z/h=0.0	<i>I</i> _P = 1.5
Model Line	Model	Dir	nensions	(in)2	Weight		Notes	UUT
Model Line	Model	Depth	Width	Height	(lbs.)		Notes	001
	QEI <mark>-9-300</mark>	B 28.5 in	10 ^{32,0} J	P40.31d	293			Interp
	QEI-12-300	30.1	32.0	40.3	305			Interp
	QEI-15-300	34.0	36.5	44.9	410			Interp
	QEI-16-300	34.0	38.0	47.8	432	\mathbf{N}		Interp
	QEI-18-300	39.5	41.0	51.6	628			Interp
	QEI-20-300	41.5	43.0	54.3	687			Interp
	QEI-22-300	44.0	46.0	57.6	874			Interp
	QEI-24-300	49.0	49.0	64.3	1,010			48
QEI	QEI-27-300	53.0	52.0	67.0	1,153			Interp
	QEI-30-300	60.5	65.0	77.0	1,180			Interp
	QEI-33-300	65.0	68.0	81.0	1,892			Interp
	QEI-36-300	69.0	73.0	87.5	2,184			Interp
	QEI-40-300	75.5	85.0	96.3	3,028			Interp
	QEI-44-300	80.5	91.0	104.8	3,513			Interp
	QEI-49-300	86.5	97.0	111.3	4,590			Interp
	QEI-54-300	93.5	105.0	122.3	5,199			Interp
	QEI-60-300	102.4	113.0	126.5	5,812			63
					-			

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 2551654-001, Rev. 0

Greenheck Fan Corporation



TABLE 2

Model Line: QEI

Certified Product Construction Summary:

UL-705; 300 Construction; Belt Drive, Carbon Steel Shaft; Carbon Steel Housing; Carbon Steel Wheel

FOR

Certified Options Summary:

Manufacturer:

Motor Cover, Bolted access door, Copper and nylon extended lube lines, Inlet and outlet guard, Slip fit inlet & outlet, Punched inlet & outlet flanges, Belt guard, Belt tube, Mounting base, 80k and 200k bearings, Base mounted with motor in positions A, G, or C.

Mounting Configuration:

Base mounted - spring vibration isolated

Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022	VIE	Seismic Certification Limits:				-	z/h=1.0 z/h=0.0	<i>I</i> _P = 1.5
Model Line	Model	Dir	nensions	(in)2	Weight		Notes	UUT
Model Line	Model	Depth	Width	Height	(lbs.)	1.	NOLES	001
	QEI <mark>-9-300</mark>	B 28.5 in	32.0 J	P40.3	203			Interp.
	QEI-12-300	30.1	32.0	40.3	305			Interp.
	QEI-15-300	34.0	36.5	44.9	410			Interp.
	QEI-1 <mark>6-300</mark>	34.0	38.0	47.8	432	$\overline{\mathbf{v}}$		Interp.
	QEI-18-300	39.5	41.0	51.6	628	5/		Interp.
	QEI-20-300	41.5	43.0	54.3	687			Interp.
	QEI-22-300	44.0	46.0	57.6	874			Interp.
	QEI-24-300	49.0	49.0	64.3	1,010			47
QEI	QEI-27-300	53.0	52.0	67.0	1,153			Interp
	QEI-30-300	60.5	65.0	77.0	1,180			Interp
	QEI-33-300	65.0	68.0	81.0	1,892			Interp
	QEI-36-300	69.0	73.0	87.5	2,184			Interp.
	QEI-40-300	75.5	85.0	96.3	3,028			Interp
	QEI-44-300	80.5	91.0	104.8	3,513			Interp
	QEI-49-300	86.5	97.0	111.3	4,590			Interp
	QEI-54-300	93.5	105.0	122.3	5,199			Interp
	QEI-60-300	102.4	113.0	126.5	5,812			49
	-							
						1		

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2551654-001, Rev. 0



Manufacturer: Model Line:	Greenheck Fan Corporation QEI		Table Description: Motors		TABLE 3
Building Code: CBC 2	022	Seismic Certificat	ion Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 3.2 g z/h = 0.0$	I _P = 1.5	
Component Type	Manufacturer	Model FC	R CODE Description	Not	tes UUT
		56T	Fan sizes 9-36; 2 hp; 208-600V		Interp.
		143T	Fan sizes 9-36; 1.5 hp; 208-600V		Interp.
		145T	Fan sizes 9-36; 3 hp; 208-600V		Interp.
		182T	Fan sizes 9-40; 5 hp; 208-600V		Interp.
		184T	Fan sizes 9-40; 7.5 hp; 208-600V		Interp.
		213T BY T	Fan sizes 15-44; 10 hp; 208-600V		Interp.
		215T	Fan sizes 15-54; 15 hp; 208-600V		Interp.
Motor Baldor		254T	Fan sizes 18-60; 20 hp; 208-600V		Interp.
	Baldor	_256T	Fan sizes 22-60; 25 hp; 208-600V		Interp.
		284T	Fan sizes 24-60; 30 hp; 208-600V	UUT: 25 hp; 575V	47,48
		286T	Fan sizes 27-60; 40 hp; 208-600V		Interp.
		324T	Fan sizes 30-60; 50 hp; 208-600V		Interp.
		326T	Fan sizes 36-60; 60 hp; 208-600V		Interp.
		364T	Fan sizes 40-60; 75 hp; 208-600V		Interp.
		365T	Fan sizes 44-60; 100 hp; 208-600V		Interp.
		404T	Fan sizes 49-60; 100 hp; 208-600V		Interp.
		405T	Fan sizes 49-60; 100 hp; 208-600V	UUT: 100 hp; 230/460V	49,63

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2551654-001, Rev. 0



Manufacturer: Model Line:	Greenheck Fan Corp QEI	poration			Table De	scription: Fan Wheels		TABLE 4
Building Code: CBC 2	2022	S	Seismic (Certificatio	on Limits:	$S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 3.2 g z/h = 0.0$	$I_{P} = 1.5$	
Model Line	Model	Dime	Dimension (in) Weight			DE Material	Not	es UU1
(Manufacturer)	De	Depth	Width	Height	(lbs.)	- Comateriat	NOC	
	15		15.0		20	Carbon Steel		Inter
	18.25		18.25		24	Carbon Steel		Inter
	20		20.0		30	Carbon Steel		Inter
	22.25		22.25		DS37-(Carbon Steel		Inter
	24.5		24.5		46	Carbon Steel		Inter
	27		<mark>2</mark> 7.0			Carbon Steel		Inter
	30		<mark>3</mark> 0.0		73	Carbon Steel		47,4
QEI	33		<u>33</u> .0		89	Carbon Steel		Inter
(Greenheck)	36.5	<u> </u>	36.5		135	Carbon Steel		Inter
	40.25		40.25		171	Carbon Steel		Inter
	44.5		44.5		228	Carbon Steel		Inter
	49		49.0		348	Carbon Steel		Inter
	54.25		54.25		421	Carbon Steel		Inter
	60		60.0		515	Carbon Steel		Inter
	66		66.0		630	Carbon Steel		Inter
	73		73.0		780	Carbon Steel		49,6

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 2551654-001, Rev. 0



Manufacturer: Model Line:	Greenheck Fan Corporation QEI	Table Description: Accessories/options	TABLE 5
Building Code: CBC 2	022	Seismic Certification Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 3.2 g z/h = 0.0$	l _P = 1.5
Component Type	Manufacturer	Model FOR CODE Description	Notes UUT
		384799 Max pressure - 8.30 inches W.C.	47, 48
Sure-Aire		384800 Max pressure - 22.14 inches W.C.	Interp.
Sure-Aire (100-240 VAC)	Greenheck	384801 Max pressure - 41.52 inches W.C. /	Interp.
(100-240 VAC)		384802 Max pressure - 83.04 inches W.C.	Interp.
		384803 Max pressure - 138.40 inches W.C.	Interp.
		384986 BV T Max pressure - 8.30 inches W.C.	Interp.
Curra Alina		384987 Max pressure - 22.14 inches W.C.	Interp.
Sure-Aire	Greenheck	384988 Max pressure - 41.52 inches W.C.	Interp.
(24 VAC/VDC)		384989 Max pressure - 83.04 inches W.C.	Interp.
		384990 Max pressure - 138.40 inches W.C.	49, 63
		PAL STATE	
		BUILDING	

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υυτ	Unit Description (mounting)	Report Number (UUT#)	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	Ι _Ρ
47	QEI-24-300 (base mounted - isolated)	14238, Rev. 1 (UUT47)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
48	QEI-24-300 (ceiling mounted - isolated)	14238, Rev. 1 (UUT48)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
49	QEI-60-300 (base mounted - isolated)	14238, Rev. 1 (UUT49)	Environmental Testing Lab (ETL)	2016	Yes	2.0 3.2	1.0 0.0	1.5
63	QEI-60-300 (ceiling mounted - isolated)	16028-TR-001 (UUT63)	Environmental Testing Lab P-0(ETL)2	2017	Yes	2.0 3.2	1.0 0.0	1.5
	0	BY: Timo	thy J. Piland		0			
		DATE: 0	4/23/2025		22			
		RNIA BU		0741				
		BU	ILDING					
lotes:								



Manufacturer:	Greenheo	k Fan Corpoi	ration							
Model Line:	QEI							U	UT 4	17
Model Number:	QEI-24-30	00								
Serial Number:	N/A				Test Re	port:	14238, F	Rev. 1 (UU	IT47)	
			UUT	Properties						
Weight			Dimension (in)			Lowes	t Natura	l Freque	ncy (Hz)	
(lbs.)		Depth	Width	Height	Front	-Back	Side	-Side	Side Vertic	
1,010		49.0	49.0	64.3	4	.2	4	.2	6	.5
		UL	IT Highest Passed	d Seismic Run Infe	ormatio	า				
Building Code	e	Test C	Criteria	S _{DS} (g)	z/h	Ι _Ρ	A _{FLX-H} (g)	А _{RIG-Н} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022			AC156 OR C	002.0	1.0	1.5	3.20	2.40	2.13	0.85
CDC 2022		ICC-LC	AC130	3.2 0	0.0	1.5	5.20	2.40	2.15	0.05
Product Construction	on Summa	ry:		Test Mounting I	Details:					
UL-705; 300 Constru			Steel Shaft;							
Carbon steel Housin	ıg; Carbon S	teel Wheel			427	2				
		2	OSF	P-0502						
						1	Course and	18	10	
Options/Subcompo	onent Sumn	na <mark>ry:</mark>	BY : Timoth	and appropriate to		P		TTN-	1	
Description								PAL	1	
25 Hp Motor			DATE: 0				-	17		A.A.
Motor Cover			DAIL. 9	1 20	47					17
Bolted Access Door						1.5				
Belt Guard				ILLE	- 🔳	1				11
Belt Tube			P							1
Inlet and Outlet Guar	rd		ARUT					-	14	ALC: NO
Punched Inlet & Outle	et Flanges		DUI					68		
Copper and Nylon Ex	tended Lub	e Lines			-	-				-
Mounting Base										
Motor in Position G					-	3.00	STATE OF	FIE		
				4-		1				
				100 A			In the second			and the
]						
				UUT47 was base					-	
				VMC MSH-1E-530					-	
				Grade 8 bolt for e						he test
				fixture using two Unit maintained s						oor
				manufacturer rec		-				
				included in testin	-					



Manufacturer:	Greenhee	ck Fan Corpo	ration							
Model Line:	QEI							U	UT 4	18
Model Number:	QEI-24-30	00						_		
Serial Number:	N/A				Test Rep	port:	14238, F	Rev. 1 (UU	IT48)	
			UUT	Properties						
Weight			Dimension (in)			Lowes	t Natura	ral Frequency (Hz)		
(lbs.)		Depth	Width	Height	Front	-Back	Side	-Side	Ver	tical
1,010		49.0	49.0	64.3	N	/A	N	/A	N	/A
		UL	IT Highest Passed	d Seismic Run Infe	ormatior	1				
Building Cod	le	Test C	Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022			AC156 OR C	002.0	1.0	1.5	3.20	2.40	2.13	0.85
CDC 2022			3.2 0	0.0	1.5	5.20	2.40	2.15	0.05	
Product Construct		-		Test Mounting I	Details:					
UL-705; 300 Constru			Steel Shaft;							
Carbon steel Housir	ng; Carbon S	iteel Wheel			427					
		A	OSF	P-0502		m)				
										-
Options/Subcomp	onent Sumr	mary:	BY: Timoth			11 - Ch		1/melin	Internet P	-
Description					NI ME			1	1	
25 Hp Motor			DATE: 04		-				124	L
Motor Cover		·Z W			1.		19	V		
Bolted Access Door							(STR.)	1V	2	
Belt Guard		- C					WAR -			
Belt Tube							and a		-	1
Inlet and Outlet Gua			BLIT							
Punched Inlet & Out Copper and Nylon Ex		alinas	01				1		0	20 VI
Mounting Base	xtenueu Lub	e Lines				P			-20	1711-
Motor in Position G										
Motor III Position G						4		h	a	
								the		
				-						
				-						
				-						
				-						
				UUT48 was ceilin	g mounte	ed - isola	ted to the	test fixtu	ire using	four (4)
				5/8" Ø A307 threa						
				410 & two (2) Mas					(4) 3/8" Ø	cable
				braces with Maso			•			
				Unit maintained s		-				
				manufacturer rec included in testin	•				itents we	re
				included in testin	8 her ohe	Li a ting ti		•		



Manufacturer:	Greenhe	eck Fan Corpol	ration							
Model Line:	QEI							U	UT 4	19
Model Number:	QEI-60-3	:00								
Serial Number:	N/A				Test Re	port:	14238, F	Rev. 1 (UU	IT49)	
			UUI	T Properties						
Weight			Dimension (in))		Lowes	t Natura	l Freque	ncy (Hz)	
(lbs.)		Depth	Width	Height	Fron	t-Back	Side	-Side	Ver	tical
5,812		102.4	113.0	126.5		2.5	2	2.1	4	1.3
		UL	JT Highest Passe	d Seismic Run Inf	ormatio	n				
Building Cod	de	Test (Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022		ICC-ES AC156 OR C		2.0	1.0	1.5	3.20	2.40	2.13	0.85
			3.2 0	0.0	1.5	5.20	2.10	2.10	0.00	
Product Construct				Test Mounting	Details:					
UL-705; 300 Constru			n Steel Shaft;							
Carbon steel Housi	ng; Carbon S	Steel Wheel			-12.2	2				
		A	OS	P-0502						
				1 DITE	and the					
Options/Subcomp	onent Sum	mary:	BY: Timot		7			-		1
Description						X				8
100 Hp Motor			DATE · 0	11/	-	Party martin			-	1
Motor Cover		Y W			1		and the second			
Bolted Access Door										
Belt Guard										
Belt Tube			PAL				Ann			1
Inlet and Outlet Gud			A BIT		12	items agentif	113	A		14
Punched Inlet & Out			201				N. K	- AL	(A CAR	
Copper and Nylon E.	Extended Lub	e Lines						TE		
Mounting Base								*-	-de	124
Motor in Position C				and the second second		-		i	-	
				and the		-	-		T	
				For	2 11	RT.			1 to	1
				_						
				_						
				_						
										(1)
				UUT49 was base Mason SSLFH-C-1					-	
				1/2" Grade 8 bolt					-	
				test fixture using						
				Unit maintained						per
				manufacturer rec		-				
				included in testin	ig per op	erating c	onditions			

TRU PROJECT NO. 2551654-001, Rev. 0



Manufacturer:	Greenhe	ck Fan Corpo	ration								
Aodel Line: QEI								UUT 63			
Model Number:	QEI-60-3	00							• • •		
Serial Number:	N/A				Test Re	port:	16028-T	R-001 (U	JT63)		
			נטט	Properties							
Weight			Dimension (in)			Lowes	t Natura	Frequency (Hz)			
(lbs.)		Depth	Width	Height	Front	t-Back	Side	Side-Side		Vertical	
5,812		102.4	113.0	126.5	N	/A	Ν	/A	N	/A	
		U	JT Highest Passe	d Seismic Run Inf	ormatio	n					
Building Code	uilding Code Test Criteria		S _{DS} (g)	z/h	Ι _Ρ	A _{FLX-H} (g)	А _{RIG-Н} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
CBC 2022		ICC-ES AC156		002.0	1.0	1.5	3.20	2.40	2.13	0.85	
CDC 2022				3.2	0.0	1.5					
Product Construction Summary:				Test Mounting	Details:						
UL-705; 300 Constru	•		n Steel Shaft;								
Carbon steel Housin	ıg; Carbon S	Steel Wheel			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						
		2	OS	P-0502		2					
				S ISSERTANCE	Carlo B	Nº 1		1		11/ 02	
Options/Subcompo	onent Sum	ma <mark>ry:</mark>	BY: Timot	A PIER	Re E			3-1		2	
Description									-	19/	
100 Hp Motor			DATE		-	27-		-	1-1	1	
Motor Cover			DAIL. V				-		In P	1.2.	
Bolted Access Door								-120			
Belt Guard				RI COL							
Belt Tube			P			Internet					
Inlet and Outlet Guard					1 AL			1		1 million	
Punched Inlet & Outlet Flanges					MEN						
Copper and Nylon Extended Lube Lines										AND I	
Mounting Base											
Motor in Position E										1 and	
										1	
				UUT63 was ceiling mounted - isolated to the test fixture using four (4)							
				7/8" Ø A307 threaded rods w/ rod stiffeners and four (4) Mason RW30N-							
				D-2150 isolators & sixteen (16) 3/8" Ø cable braces with Mason SCB-4 brackets at ends.							
						l integrit	v and rem	nained fur	nctional r	ber	
					it maintained structural integrity and remained functional per anufacturer requirement after shake table test. Contents were						
				included in testir	-						

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