OFFICE USE ONLY APPLICATION FOR OSHPD SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP)** APPLICATION #: OSP - 0354 - 10**OSHPD Special Seismic Certification Preapproval (OSP)** ☐ New ☐ Renewal **Manufacturer Information GE Healthcare** Manufacturer: Manufacturer's Technical Representative: Tom Farnow Mailing Address: 3000 N. Grandview Blvd., Waukesha, WI 53188-1696 Telephone: 888-406-1101 Email: Tom.Farnow@gehcseismic.com **Product Information** Product Name: OPTIMA CT580 & DISCOVERY CT590 SYSTEM Product Type: Computed Tomography (CT) medical diagnostic imaging systems Product Model Number: SEE ATTACHEMENT 1 (List all unique product identification numbers and/or part numbers) General Description: Multiple component systems for the provision of Computed Tomography medical diagnostic imaging. Seismic Certification is limited to the systems and components identified in Attachment 1. Seismic enhancements incorporated into the test units observed during the tests shall be incorporated into the certified units. Mounting Description: Rigid Base mounted (i.e. floor mounted) **Applicant Information** Applicant Company Name: EASE LLC Contact Person: JONATHAN ROBERSON, S.E. Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709 Telephone: (909) 606-7622 Email: <u>j.roberson@easeco.com</u> 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: May 20, 2016 Principal Engineer Company Name: EASE LLC Title:

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: EASE LLC
Name: JONATHAN ROBERSON, S.E. California License Number: S4197
Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709
Telephone: (909) 606-7622 Email: j.roberson@easeco.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 CODF
Certification Method
Testing in accordance with:
BY: Timothy J. Piland
Testing Laboratory DATE: 01/03/2019
Company Name: Environmental Testing Laboratory, Inc.
Contact Name: Brady Richard
Mailing Address: 11034 Indian Trail, Dallas, TX 75229-3513
Telephone: (972) 247-9657 Email: brady@etldallas.com



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OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: ⊠ Yes ☐ No
Design Basis of Equipment or Components (F _p /W _p) = <u>SEE ATTACHMENT 1 / TABLE 2</u>
S _{DS} (Design spectral response acceleration at short period, g) = <u>SEE ATTACHMENT 1 / TABLE 2</u>
a _p (In-structure equipment or component amplification factor) = <u>SEE ATTACHMENT 1 / TABLE 2</u>
R _p (Equipment or component response modification factor) = SEE ATTACHMENT 1 / TABLE 2
$Ω_0$ (System overstrength factor) = SEE ATTACHMENT 1 / TABLE 2
I _p (Importance factor) = 1.5
z/h (Height factor ratio) = SEE ATTACHMENT 1 / TABLE 2
Equipment or Component Natural Frequencies (Hz) = <u>SEE ATTACHMENT 2</u>
Overall dimensions and weight (or range thereof) = SEE ATTACHMENT 1 / TABLE 1
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Yes No
Design Basis of Equipment or Components (V/W) =
S _{DS} (Design spectral response acceleration at short period, g) =
S _{D1} (Design spectral respons <mark>e acceleration at 1 second period, g) =</mark>
R (Response modification coefficient) = OSP-0354-10
Ω_0 (System overstrength factor) =
C _d (Deflection amplification factor) = BY: Timothy J. Piland
I _P (Importance factor) = 1.50 DATE: 01/03/2019
Height to Center of Gravity above base =
Equipment or Component Natural Frequencies (Hz) =
Overall dimensions and weight (or range thereof) =
Tank(s) designed in accordance with ASME BPVC, 2015: ☐ Yes ☒ No
List of Attachments Supporting Special Seismic Certification
☐ Test Report(s) ☐ Drawings ☐ Calculations ☐ Manufacturer's Catalog
Other(s) (Please Specify): SEE ATTACHMENTS 1 & 2
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022
1./1 00
Signature: Date: January 3, 2019
Print Name: Timothy J. Piland Title: SSE
Special Seismic Certification Valid Up to: S _{DS} (g) = See Above z/h = See Above
Condition of Approval (if applicable):

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"



OSHPD

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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 1 OF 2

TABLE 1: SEISMIC CERTIFIED SYSTEMS & COMPONENTS

SYSTEM OPTIMA C	1360 / DISCOVE	K1 C1 590 K1	/ DISCOVER	IKI			
		DIMENSIONS (IN.)			MAX. WT.		
COMPONENT	MODEL NO.	W	D	Н	(LB.)	MOUNTING	BASIS [1]
GANTRIES		•					
Optima 580 Gantry [5]	2374681-14	96.0	39.6	78.4	4000	Floor [7]	UUT3 UUT4
Optima 580 Gantry [5]	2374681-15	96.0	39.6	78.4	4000	Floor [7]	Same
Discovery 590 RT Gantry [5]	2374681-12	96.0	39.6	78.4	4000	Floor [7]	Same
Discovery 590 RT Gantry [5]	2374681-13	96.0	39.6	78.4	4000	Floor [7]	Same
Discovery RT Gantry [5]	2374681-17	96.0	39.6	78.4	4000	Floor [7]	Same
Discovery RT Gantry [5]	2374681-18	96.0	39.6	78.4	4000	Floor [7]	Same
PATIENT TABLES		OB C	ODE			L	
GT1700V	5122080-11	25.6	93.3	19.2 / 41.3	1059 ^[2]	Floor	UUT-A2
GT1700 N9	5122080-3	25.6	93.3	19.2 / 41.2	1047	Floor	INT
GT1700 N9 ED3	5122080-4	25.6	93.3	19.2 / 41.2	1047	Floor	INT
GT2000	5121647-3	25.6	114.5	19.2 / 41.3	1146 ^[8]	Floor	UUT-A4
High Capacity Patient Table	5272966-3	(26) - ()	115.6/210.9	20.6 / 41.7	1136.5 ^[3]	Floor	UUT1
High Capacity Patient Table	5272966-2	26	115.6 / 210.9	20.6 / 41.7	1136.5 ^[3]	Floor	Same
POWER DISTRIBUTION UNITS			z T Dila			<u>l</u>	
NGPDU-60	2326492-60	27.6	21.7	41.8	818	Floor	Same
NGPDU-61	2326492-61	27.6	21.7	41.8	818	Floor	UUT2
CONSOLES	D.	ATE: 01/0	03/2019	7 ~			
NIO Console	5411378-23	18.5	29.1	25.8	161	Floor	UUT-A3
NIO Console	5411378-25	18.5	29.1	25.8	161	Floor	Same
NIO Console	5411378-11	18.5	29.1	25.8	159	Floor	INT
NIO Console	5411378-22	18.5	29.1	25.8	159	Floor	INT
NIO Console	5411378-24	18.5	29.1	25.8	159	Floor	INT
NIO Console	5411378-31	18.5	D 29.1	25.8	159	Floor	INT
NIO Console	5411378-42	18.5	29.1	25.8	159	Floor	INT
NIO Console	5411378	18.5	29.1	25.8	182	Floor	INT
RIO Console	5577708-102	18.5	29.1	25.8	182	Floor	UUT-A5
Open Console 16 (TangE)	5941604-10	15.7	26.4	22.7	133	Floor	1806-5
RT Open Console with Z840	5941604-11	15.7	26.4	22.7	133	Floor	SAME
RT Open Console with Z840	5941604-20	15.7	26.4	22.7	133	Floor	SAME
OTHER EQUIPMENT		1	T			,	
Freedom Workspace (FWS) – Large tabletop w/ (2) – Eizo LCD Monitors on table-mounted articulated arms	5168666-2	53.1	29.2	26.9 / 35.9	167 ^[4]	Floor ^[6]	UUT-A1

Table continues next page



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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MANUFACTURER	GE HEALTHCARE
SYSTEM	OPTIMA CT580 / DISCOVERY CT 590 RT / DISCOVERY RT
NOTES	 BASIS: UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program. INT (Interpolate or extrapolate): indicates a model that was not specifically tested, and by which seismic qualification was established through evaluation of testing of other, similar models in the product line. SAME: Model is physically, mechanically & electrically the same as test specimen. Differences are limited to color, software, GE manufacturing location and/or labeling. Patient Table (GT1700V) weight does not include 350 lb. patient load present during testing. Patient Table (High Capacity Table) weight does not include 650 lb. patient load present during testing. FWS weight includes 2 LCD monitors. Seismic qualification limited to gantries manufactured after July 15, 2013 which include RT Integrated Bearing Bracket Part# 5480661 and Main Bearing Part #5134357 or 5112551-2 as included in the test specimens. The GE Healthcare seismic bracket model "5394347" used in this testing program shall be installed. The 1" OD x 11/16 ID x 2.5" cylindrical spacers present in the test specimen leveling feet as part of the anchorage assembly shall be installed. Patient Table (GT2000) weight does not include 550 lb. patient load present during testing

TABLE 2: ASCE 7-10 DESIGN BASIS FOR EQUIPMENT

COMPONENT	MODEL NO.	SDS	z/h	F _P / W _P	аР	R _P	Ω_0
Gantry	2374681-14 2374681-15 2374681-12 OSP-0 2374681-13 2374681-17 2374681-18	2.6	PACE	2.40 1.17	1	1 ½	1 ½
Patient Table	5122080-11 5122080-3 5122080-4 5121647-3 TE: 01/ 5272966-3 5272966-2	y o. Filano	2070	2.40 1.17	1	1 ½	1 ½
Console	5411378-23 5411378-25 5411378-11 5411378-22 5411378-24 5411378-31 5411378 5577708-102	DING 2.0 2.6	1 0	1.50 1.17	2 ½	6	2
Console	5941604-10 5941604-11 5941604-20	2.0 2.5	1 0	1.44 1.13	1	2 ½	2
Power Distribution Unit	2326492-60 2326492-61	2.0 2.6	1 0	1.44 1.17	1	2 ½	2
Freedom Workspace	5168666-2	2.0 2.6	1 0	1.44 1.17	1	2 ½	2

Phone (909) 606-7622 | OSP@EaseCo.com 01/03/2019 OSP-0354-10 Page 5 of 11

ATTACHMENT 2: TEST SPECIMENS

ATTACHMENT PAGE | 1 OF 5

UUT- 1	High Capacity Table
MANUFACTURER:	GE Hangwei Medical Systems CO., LTD
IDENTIFICATION:	Model No.: 5272966-3
	S/N: 320342HM9
DESCRIPTION:	System component of the Optima CT580 System. 650lb simulated patient load.
MOUNTING:	FLOOR MOUNTED (Rigid Base) w/ (4) – 5/8" dia. Bolts



PROPERTIES:								
	DIMENSIONS (in.)			LOWEST	RESONANT	FREQUENCY	′ (Hz.)	
Width	Depth	Height		Weight (lb.)	X-Axis	Y-A	xis	Z-Axis
26	115.6 - 210.9	20.6 / 41.	7	1136.5	3.4	>50		5.3
SHAKE TABLE TI	EST PARAMETERS	7.7	OSP-0	0354-10	1			
CODE	TEST CRITERIA	S _{DS}	z/h	l _P	A _{FLX-H}	A_{RIG-H}	A _{FLX-V}	A_{RIG-V}
CBC 2016	ICC-ES AC156	2.0 2.6 BY	:Ti0.0ot]	ny J1.5Pil	and 3.20	2.40	1.74	0.70
Unit maintained st	tructural integrity and fu	inctionality after	the ICC-ES	AC 156 test			•	•

UUT- 2	NGPDU-61
MANUFACTURER:	GE Hangwei Medical Systems CO., LTD
IDENTIFICATION:	Model No.: 2326492-61
	Serial No.: : 322132HM2
DESCRIPTION:	System component of the Optima CT580 System
MOUNTING:	FLOOR MOUNTED (Rigid Base) w/ (4) - 3/8" dia. Bolts



PROPERTIES:								
	DIMENSIONS (in.)				LOWE	ST RESONANT	FREQUE	NCY (Hz.)
Width	Depth	Height Weight (lb.)		X-Axis Y-		xis	Z-Axis	
27.6	21.7	41.8		818	15.7	19	19.9 45	
SHAKE TABLE TEST PARAMETERS								
CODE	TEST CRITERIA	S_{DS}	z/h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX} -	V A _{RIG-V}
CBC 2016	ICC-ES AC156	2.0 2.6	1.0 0.0	1.5	3.20	2.40	1.74	0.70
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test								

ATTACHMENT 2: TEST SPECIMENS

Optima CT580 Gantry

UUT- 4

ATTACHMENT PAGE | 2 OF 5

UUT- 3	Optima CT58	Optima CT580 Gantry								
MANUFACTURER:	GE Hangwei Medic	GE Hangwei Medical Systems CO., LTD								
IDENTIFICATION:	Model No.: 237468	1-14								
	Serial No.: 331950h	HM6			. 7					
DESCRIPTION:	Features which vary	of the Optima CT580 y from current product earing Bracket: Part N art No. 5134357;								
MOUNTING:	NOTE: The 1" OD x		drical spacers as				7/9/201			
PROPERTIES:		40	R CODE	7						
	DIMENSIONS (in.)			LOWEST	T RESONANT	FREQUENCY	′ (Hz.)			
Width	Depth	Height	Weight (lb.)	X-Axis	Y-A	xis	Z-Axis			
96	39.6	78.4	4000	5.9	34	.1	8.1			
SHAKE TABLE T	EST PARAMETERS	05	SP-0354-10							
CODE	TEST CRITERIA	S _{DS} z	z/h	A _{FLX-H}	A_{RIG-H}	A _{FLX-V}	A_{RIG-V}			
CBC 2016	ICC-ES AC156	2.0 2.6 BY: Ti	.0 Mothy J1.5Pil	and 3.20	2.40	1.74	0.70			
Unit maintained s	tructural integrity and fu	inctionality after the IC	CC-ES AC 156 test							

MANUFACTURER:	GE Hangwei Medica	l Systems Co.	, LTD.			14				
IDENTIFICATION:	ENTIFICATION: Model No.: 2374681-14					0				
	Serial No.: 338839H	M4	4		- COY					
DESCRIPTION:	SCRIPTION: System component of the Optima CT580 System Features which vary from current production units: RT Integrated Bearing Bracket: Part No. 5480661 Main Bearing: Part No. 5112551-2									
MOUNTING:	NOTE: The 1" OD x present in the test sp part of the anchorag necessary condition and recommendation	11/16: ID x 2.5 pecimen levelir e assembly sh of the conclus	o" cylindrical and feet as all be installed	spacers				7/11/2013		
PROPERTIES:										
	DIMENSIONS (in.)				LOWE	ST RESONANT	FREQUENCY	′ (Hz.)		
Width	Depth	Height		Weight (lb.)	X-Axis	Y-A	xis	Z-Axis		
96	39.6	78.4		3993.6	5.6	35	.9	14.5		
SHAKE TABLE T	EST PARAMETERS				•		•			
CODE	TEST CRITERIA	S_{DS}	z/h	l _P	A _{FLX-H}	A_{RIG-H}	$A_{\text{FLX-V}}$	A_{RIG-V}		
CBC 2016	ICC-ES AC156	2.0 2.6	1.0 0.0	1.5	3.20	2.40	1.74	0.70		
Unit maintained st	tructural integrity and fur	nctionality afte	r the ICC-ES	AC 156 test	•		•	•		

ATTACHMENT 2: TEST SPECIMENS

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UUT-A1	Freedom Workspace – Large w/ 2 LCD mo	onitors
MANUFACTURER:	GE Healthcare	
IDENTIFICATION:	Model No. 5168666-2	
DESCRIPTION:	System component of the Discovery 610 PET/CT System Larger variant of the Freedom Workspace table w/ (2)-EIZO LCD Monitors mounted to articulated arms	
MOUNTING:	Rigid Base (Floor) mounted using GE Healthcare seismic bracket Model No. 5394347 w/ (4) – 3/8" Dia Cap bolts to aluminum interface plate.	



PROPERTIES:			OR	CODE	2				
	DIMENSIONS (in.)		LOWEST RESONANT FREQUENCY (Hz.)						
Width	Width Depth Height			eight (lb.)	X-Axis	Y-Axis		Z-Axis	
53.1	29.2	35		167	6.1	3.9		3.9	
SHAKE TABLE TI	EST PARAMETERS	5	OSD_0	354_10	NZ \				
CODE	TEST CRITERIA	S _{DS}	z/h	I _P	A _{FLX-H}	A_{RIG-H}	$A_{\text{FLX-V}}$	A_{RIG-V}	
CBC 2016	ICC-ES AC156	2.0 2.6 BY:	1.0 T 0.0 0th	y J ^{1.5} Pi	and 3.20	2.40	1.74	0.70	
Unit maintained st	ructural integrity and fu	<mark>incti</mark> onality after th	e ICC-ES	AC 156 test					

UUT- A2	GT1700V Table
MANUFACTURER:	GE Hangwei Medical Systems Co., LTD
IDENTIFICATION:	Model No.: 5122080-11
DESCRIPTION:	System component of the Optima CT660 System 350 lb. simulated patient load.
MOUNTING:	Rigid Base (Floor) mounted using $(4) - 5/8$ " dia. hex head bolts to interface plate.



PROPERTIES:											
DIMENSIONS (in.)						LOWEST RESONANT FREQUENCY (Hz.)					(Hz.)
Width	Depth	Height		Weight (lb.)	Transverse-Axis		Longitudinal-Axis		'	Vertical-Axis
25.6	93.3	19.2 / 41	.2	1059		3.9		15.2		14.2	
SHAKE TABLE TEST PARAMETERS											
CODE	TEST CRITERIA	S _{DS}	z/h l _P		l _P	A_{FLX-H}	AR	rIG-H	$A_{\text{FLX-V}}$		A_{RIG-V}
CBC 2016	ICC-ES AC156	2.0 2.6	1.0 0.0	1 5		3.20	2.	40	1.74		0.70
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test											

ATTACHMENT 2: TEST SPECIMENS

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UUT- A3	NIO Console
MANUFACTURER:	GE Hangwei Medical Systems Co., LTD
IDENTIFICATION:	Model No.: 5411378-11 (on label)
	Model No.: 5411378-23 (as configured w/ GPU card)
DESCRIPTION:	System component of the Optima CT580 System Manufactured unit was Model No. 5411378-11. Prior to testing a GPU card added to the test specimen, transforming it to Model No. 5411378-23.
MOUNTING:	Rigid Base (Floor) Mounted using (4) - 3/8" dia. grade 8 Allen head cap screw to aluminum interface plate.



PROPERTIES:			OR	CODE						
	DIMENSIONS (in.)	DIMENSIONS (in.) LOWEST RESONANT FREQUENCY (Hz.)								
Width	Depth	Height		Veight (lb.)	Side-Axis	Fron	t-Axis	Vertical-Axis		
18.5	29.1	25.8	U 3	161	12.2	16	6.8	9.9		
SHAKE TABLE T	EST PARAMETERS	2		0 = 4 = 1 0	7					
CODE	TEST CRITERIA	S _{DS}	z/h	354-LU	A _{FLX-H}	A_{RIG-H}	$A_{\text{FLX-V}}$	A_{RIG-V}		
CBC 2016	ICC-ES AC156	2.0 2.6 BY	1.0 : Ti0.0 th	1.5 J. Pil	3.20 and	2.40	1.74	0.70		
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test										

UUT- A4	GT2000 Patient Table
MANUFACTURER:	GE Hangwei Medical Systems CO. LTD.
IDENTIFICATION:	Model No.: 5121647-3
DESCRIPTION:	System Component of the LightSpeed VCT System GT2000 N9 Patient Table 550 lb. simulated patient load. Seismic Kit
MOUNTING:	Floor: (4) – 5/8" dia GR 8 hex head bolts (torqued to 60 lb-ft) w/ GEHC supplied patient table foot assembly.



PROPERTIES:											
DIMENSIONS (in.)						LOWEST RESONANT FREQUENCY (Hz.)					(Hz.)
Width	Depth	Height			eight (lb.)	Transverse-Axis		Longitudinal-Axis		Vertical-Axis	
25.6	114.5	19.2 / 41.3			1146	2.7		7.1		5.7	
SHAKE TABLE T	SHAKE TABLE TEST PARAMETERS										
CODE	TEST CRITERIA	S_{DS}	z/ł	1	I _P	A _{FLX-H}		A _{RIG-H}	$A_{\text{FLX-V}}$		A_{RIG-V}
CBC 2016	ICC-ES AC156	2.0 2.5	1.0 0.0		1.5	3.2		2.4	1.68		0.68
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test											



ATTACHMENT 2: TEST SPECIMENS

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UUT- A5	RIO Console										
MANUFACTURER:	GE Medical System	ns, LLC		O graduan							
IDENTIFICATION:	Model No.: 557770	8-102		F							
	S/N: 424057CN8										
DESCRIPTION:	System component	of the Optima CT	660 System								
MOUNTING:	Rigid Base (Floor) I bolts to aluminum ir	Mounted using (4) nterface plate.	- 3/8" dia. socket head		3	Front					
PROPERTIES:			OR CODE								
	DIMENSIONS (in.)	F		LOWE	ST RESONA	NT FREQUEN	ICY (Hz.)				
Width	Depth	Height	Weight (lb.)	Front-Axis	Side	-Axis	Vertical-Axis				
18.5	29	25.8	UD 175.5 U	21.8 13.5			13.6				
SHAKE TABLE T	EST PARAMETERS			12	\						
CODE	TEST CRITERIA	A SDS	0.5P - 0.354 - 10	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A_{RIG-V}				
CBC 2016	ICC-ES AC156	2.0 2.6 BV	1.0 1.5 1.5 1.5 Pi	3.2	2.4	1.74	0.70				





ATTACHMENT 2: TEST SPECIMENS

ATTACHMENT PAGE | 1 OF 1

1806-5	Optima CT54	0 Open Console				
MANUFACTURER:	GE Healthcare				14	
IDENTIFICATION:	NTIFICATION: Model No.: 5941604-10					X **
DESCRIPTION:	Component of the "Open" console sty	Optima CT 540 system. le				
MOUNTING:	 Bracket (P/N 535 (2) – M6 x 16 10.9 (P/N 2262896-30) (2) – Flat washers 	r mounting assembly (3 57148-8) each w/ 9 Class bolts (Torque =	7.9 N-m)			
	DIMENSIONS (ii	n.)		LOWEST	RESONANT FREQUI	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
15.7	26.4	22.7	132.5	14.4	32.2	>50
ICC-ES AC156 SH	AKE TABLE TEST PA	ARAMETERS		17	•	CODE: 2016 CBC
S _{DS} (G)	z/h	/FI IP OF	SP = 0.354 = 10 A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0 2.5	1 0	1.5 RV · Ti	3.2	2.4	1.68	0.68
Unit satisfied AC15	6 requirements for str	uctural integrity and mai	nufacturer requiremen	ts for functionality after	er AC156 test.	
	•				•	

