

#### DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

# APPLICATION FOR HCAI SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP-0280

#### HCAI Special Seismic Certification Preapproval (OSP)

Type:

X Renewal

#### Manufacturer Information

New

Manufacturer: Siemens Healthcare GmbH

Manufacturer's Technical Representative: Dieter Freitag

Mailing Address: Siemensstr. 3, D-91301 Forchheim, Germany

Telephone: +49 9191 185412

Email: freitag.dieter@siemens-healthineers.com

#### Product Information

Product Name: Fluoroscopy and Radiography Systems

Product Type: NA

Product Model Number: Ysio, Ysio Max, and Multix Fusion X-Ray Systems

Multi-component digital & analog radiographic medical imaging systems. General Description:

Mounting Description: Ceiling, Floor, Wall & floor, and Wall, See Certified Product Tables

Seismic enhancements made to the test units and/or modifications required to address **Tested Seismic Enhancements:** anomalies during the tests shall be incorporated into the production units.

.0280

#### Applicant Information

Applicant Company Name: W.E. Gundy & Asso	ciates, Inc.
Contact Person: Travis Soppe	BUILDING
Mailing Address: 1199 Shoreline Drive Suite 31	0, Boise, ID 83702
Telephone: (208) 342-5989	Email: tsoppe@wegai.com

Title: SE

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





# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer	Respons	ible for the Enginee	ring and Test Repo	ort(s)
Company Name: W.E. GUNDY & ASOCIATES	S INC.			
Name: Travis Soppe		California Licens	e Number: S6115	
Mailing Address: P.O. Box 9121, Boise, ID 83	707			
Telephone: (208) 342-5989	Email:	tsoppe@wegai.com		
Certification Method				
GR-63-Core X ICC-ES AC1	56	IEEE 344	IEEE 693	NEBS 3
Other (Please Specify):				
	FOR	CODECON		
Testing Laboratory	0			
Company Name: ENVIRONMENTAL TESTIN	G LABORA	TORIES, INC. (ETL)	4	
Contact Person: Brady Richard			2	
Mailing Address: 11034 Indian Trail, Dallas T	( 75229-35 <sup>-</sup>	5P-0280	m	
Telephone: (972) 247-9657	By Email:	brady@etIdallas.com		
	DATE:	11/30/2022	6	
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4				
CALIFOR	ABI	JIDING		
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# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

(Fp/Wp) = See attachments
eration at short period, g) = $2.0$
See attachments
See attachments
See Attachment
1.5
1
See Attachment
See Attachment
ED FOIL
Approval Expires on 11/30/2028
OSP-0280
Title: Supervisor, Health Facilities
ps (g) = 2.0 $z/h = 1$

ROPNIA BU

ING CODE:

Condition of Approval (if applicable):

HCA

TABLE 1

#### SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION YSIO & YSIO MAX COMPONENTS



#### Manufacturer: Siemens Healthcare GmbH

#### System: YSIO & YSIO MAX

	Siemens	Di	mensions	(in)	Weight	Mounting						
System Component <sup>1)</sup>	Part Number	Width	Depth	Height	(lb)	Mounting	UUT					
Ceiling Suspension Ysio X-Ray Tubes												
3D Stand Ysio 3m track-synchronized	7042232	167	119	32 - 103	754	ceiling	UUT <sub>x</sub> -1					
3D Stand Ysio 4m track-synchronized	7042240	167	172	32 - 103	815	ceiling	interpolated					
3D Stand Ysio 3m track-automated	7042216	167 C	D119	32 - 103	846	ceiling	interpolated					
3D Stand Ysio 4m track-automated	7042224	167	172	32 - 103	890	ceiling	UUT <sub>w</sub> -1					
	E	Bucky W	all Star	ıds	1							
Pro Non-Tilting Bucky Wall Stand - Digital Detector	10681650	(30.0P	016.60	82.9	452	floor	UUT <sub>v</sub> -7					
Non-Tilting Bucky Wall Stand - Fixed Detector	11688339	30.0 Voham	18.5 mad Ka	82.9	488	floor	interpolated					
Non-Tilting Bucky Wall Stand - Wifi Dectector	<mark>11</mark> 688339	30.0	18.5	82.9	488	floor	interpolated					
Tilting Bucky Wall Stand Fixed Detector	10681702 A	E <sub>30.0</sub>	48.9	2 85.0	530	floor	UUT <sub>y</sub> -2					
Tilting Bucky Wall Stand Wifi Dectector	10681704	30.0	28.1	82.9	645	floor	UUT <sub>z</sub> -2					
Tilting Bucky Wall Stand Wifi Dectector	10681705	30.0	28.1	82.9	645	floor	interpolated					
Tilting Bucky Wall Stand Wifi Dectector	10656443	30.0	26.9	82.5	660	floor	interpolated					
Tilting Bucky Wall Stand Wifi Dectector	10656442	30.0	26.9	82.5	660	floor	interpolated					
Tilting Bucky Wall Stand Wifi Dectector	10150520	30.0	26.9	82.5	660	floor	interpolated					
Tilting Bucky Wall Stand Wifi Dectector	10150519	30.0	26.9	82.5	660	floor	UUT <sub>w</sub> -4					

<sup>1</sup> All components are manufactured by Siemens Healthcare GmbH unless noted. Part numbers listed uniquely identify type of component, manufacturer, and material of construction for each sub-componenent within the tested units.

<sup>2</sup> The units were tested at different times and the subscripts on the UUTs reference the following seismic test reports:

v = SQ35-1302-02-r1 $w = SQ35-1204-01-r3$ $x =$	= SSC10-1010-02-r2	y = SQ35-1416-01-r2	z = SQ35-1415-02-r4
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SEISMIC CERTIFICATION LIMITS											
System Component	Code	$S_{DS}(g)$	z / h	I <sub>P</sub>	a <sub>P</sub>	R <sub>P</sub>	Ω <sub>0</sub>	$\mathbf{F}_{\mathbf{P}}$ / $\mathbf{W}_{\mathbf{P}}$			
Ceiling Suspension X-Ray Tubes	CBC 2022	2.0	1.0	1.50	2.5	2.5	2.0	3.60			
Wall Stands	CBC 2022	2.0	1.0	1.50	1.0	1.5	1.5	2.40			

TABLE 1

#### SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION YSIO & YSIO MAX COMPONENTS



Manufacturer: Siemens Healthcare GmbH

#### System: YSIO & YSIO MAX

S	Siemen	IS	Di	mensions	s (in)	Weight	Mounting	UUT	
System Component <sup>1)</sup>	Part Num	nber	Width	Depth	Height	(lb)	Mounting	UUI	
			Patien	t Table	S				
Ysio MAX Patient Table	1027321	10	94.9	31.5	20.3 - 37.6	835 <sup>3)</sup>	floor	UUT <sub>y</sub> -1	
Ysio Patient Table	1028101	13	94.9	31.5	20.3 - 37.5	1015 <sup>3)</sup>	floor	UUT <sub>w</sub> -2	
		E	Imaging	g System	ns				
Flurospot Compact (FLC)	1076248	34	13.4	25.9	21.8	85	floor	UUT <sub>y</sub> -3	
Flurospot Compact (FLC)	1028101	16	13.4	27.0	21.8	116	floor	UUT <sub>w</sub> -6	
	R	G	enerato	or Cabir	nets	m			
Polydoros 80kW	<b>100969</b> 5	-BY:	Vigham	mad.Ka	rim <sub>86.7</sub>	C <sub>835</sub>	floor/wall	UUT <sub>y</sub> -6	
Polydoros R80/R65	<u>10</u> 09698	80AT	31.01/	301/72002	2 86.7	<mark>o 8</mark> 83	floor/wall	UUT <sub>w</sub> -5	
Miscelaneou	us Compoi	nents	Dockir	ng Stati	on and W	ireless A	Access Poin	nt	
Docking Station	1028102	25	20.5	8.0	18.0	33	wall	UUT <sub>w</sub> -3	
SCALANCE W700	Scalance W	V700	B4.9L	$DI_{2.8}$	6.2	6	wall	UUT <sub>y</sub> -4	
All components are manufact f component, manufacturer, a The units were tested at diffe w = SQ35-1204-01-r3 Patient table weight does not	and material of rent times and x = SSC10-1 include simul	f constr l the su 010-02 lated pa	uction for bscripts or -r2 y = tient weig	each sub- n the UUT = SQ35-14 hts of 440	componenen s reference tl 16-01-r2	t within the he followin z = SQ35 for UUT <sub>y</sub> .	e tested units. ng seismic test -1415-02-r4	reports:	
System Component		b <sub>DS</sub> (g)	z/h	Ір	а <sub>Р</sub>	Rp	Ω₀	F <sub>P</sub> / W <sub>P</sub>	
Patient Tables	CBC 2022	2.0	1.0	1.50	1.0	1.5	1.5	2.40	
Imaging Systems	CBC 2022	2.0	1.0	1.50	1.0	2.5	2.0	1.44	
Generator Cabinets	CBC 2022	2.0	1.0	1.50	2.5	6.0	2.0	1.50	
Docking Station / Wireless	CBC	2.0			1.0	2.5	2.0		

TABLE 1

#### SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION MULTIX FUSION COMPONENTS



#### Manufacturer: Siemens Healthcare GmbH

System: Multix Fusion

System Component / 1	Siemens	D	imensions	(in)	Weight	Mounting	UUT
System Component <sup>1)</sup>	Part Number	Width	Depth	Height	(lb)		
	Co	eiling Susp	ension X	-Ray Tube	S		
3D V Stand ACCS T 3m track-synchronized	7042166	167	119	32 - 103	750	ceiling	UUT <sub>v</sub> -6
3D V Stand ACCS T 4m track-synchronized	7042174	167	119	32 - 103	815	ceiling	interpolated
3D Stand Ysio 4m track-automated	7042224	167R	$O_{172}E$	32 - 103	890	ceiling	UUT <sub>w</sub> -1
	N.	W	all Stand	ls			
Top Tilting Wall Stand	10681670	30.0	28.1	82.9	490	floor	UUT <sub>v</sub> -8
Pro Non-Tilting Wall Stand	10 <mark>68165</mark> 0	30.0	16.6	82.9	452	floor	UUT <sub>v</sub> -7
		BY: Mehat	ient Tab	les			
Multix Fusion Patient Table	102 <mark>732</mark> 04	DA948: 1	1/305/20	220.3 - 37.6	<b>886</b> <sup>2)</sup>	floor	UUT <sub>v</sub> -9
<sup>4</sup> All wall stands exclude t <sup>4</sup> Wall stands were modificonditions of this listing.			SQ35-1202-	-02 Rev. 1, the	se enhance	ments are requ	
<sup>5</sup> The units were tested at v v = SQ35-1302-02-		l the subscripts -1204-01-r3	s on the UU	ITs reference tl	ne followin	g seismic test	
	r1 w = SQ35	-1204-01-r3		Ts reference th		g seismic test	
v = SQ35-1302-02- System Component	r1 w = SQ35 SE Code S <sub>DS</sub> (§	-1204-01-r3				g seismic test Ω <sub>0</sub>	
v = SQ35-1302-02-	r1 $W = SQ35$ SE Code $S_{DS}$ (g CBC 2022 2.0	-1204-01-r3	TIFICAT	TON LIMIT	S		reports:
v = SQ35-1302-02- System Component Ceiling Suspension	r1 $w = SQ35$ SE Code $S_{DS}$ (§ CBC 2.0	-1204-01-r3 ISMIC CER 3) z / h	TIFICAT Ip	TON LIMIT	S R <sub>P</sub>	Ω₀	reports: F <sub>P</sub> / W <sub>P</sub>

TA	BL	Æ	1

#### SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION MULTIX FUSION COMPONENTS



Manufacturer: Siemens Healthcare GmbH

#### System: Multix Fusion Siemens **Dimensions (in)** Weight System Component<sup>1)</sup> Mounting UUT Part Number (lb) Width Depth Height **Imaging Systems** Flurospot Compact 10569621 17.6 27.6 22.8 158 floor $UUT_v-3$ **Generator Cabinets** Polydoros RF 50.0-10606040 22.5 424 $UUT_v-1$ 21.4 floor RAD80 / 65 / 55 **Miscelaneous Components: Power Box** 10847706 12.4 2.3 $UUT_{v}-2$ Power Box 11.0 10 wall All components are manufactured by Siemens Healthcare GmbH unless noted. Part numbers listed uniquely identify type of component, manufacturer, and material of construction for each sub-componenent within the tested units. <sup>2</sup> Patient table weight does not include 660lb simulated patient weight. <sup>3</sup> All wall stands exclude the optional Spacer Box. <sup>4</sup> Wall stands were modified as detailed in the test report, SQ35-1202-02 Rev. 1, these enhancements are required to meet the conditions of this listing. <sup>5</sup> The units were tested at different times and the subscripts on the UUTs reference the following seismic test reports: w = SQ35-1204-01-r3v = SO35-1302-02-r1WIA BUILDING CO SEISMIC CERTIFICATION LIMITS **System Component** Code $S_{DS}(g)$ $F_{P}/W_{P}$ z / h Ip R<sub>P</sub> Ω ap CBC **Imaging Systems** 2.0 2.5 1.44 1.0 1.50 1.0 2.0 2022 CBC Generator Cabinets 2.0 1.0 1.50 2.5 6.0 2.0 1.50 2022

11/30/2022

Power Box

CBC

2022

2.0

1.0

1.50

1.44

2.0

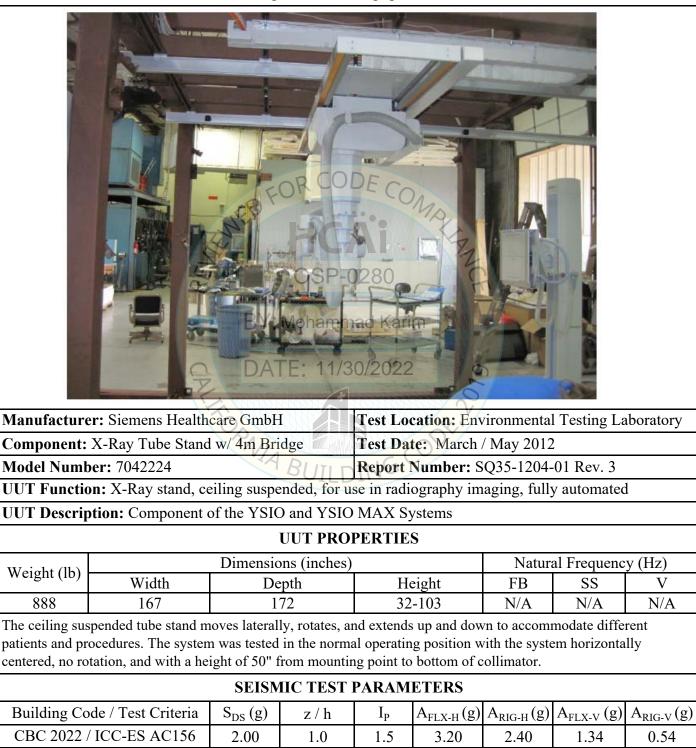
2.5

1.0

UUT<sub>w</sub>-1



**Mounting Details:** Rails and connecting parts of the component bolt with 2 -M10 bolts (20 bolts total) to unistrut grid spaced at 27.0" on center. The unistrut grid consisted of Unistrut P1001 rails anchored with 2 - 3/8" bolts at each intersection to the ceiling fixture framing spaced at 32" on center.



Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.



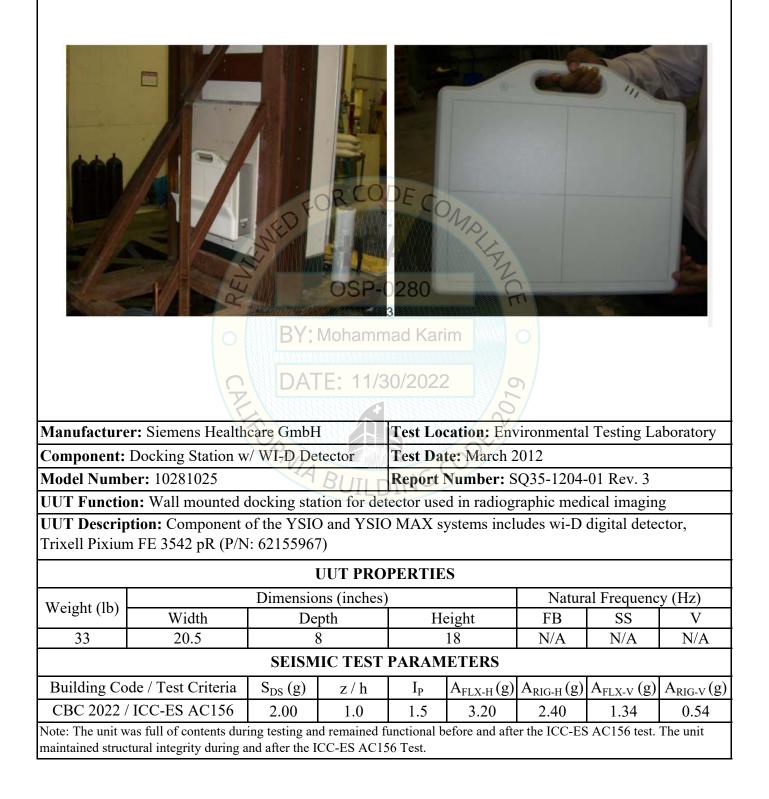
Mounting Details: Rigid floor mounted with 4 - 5/8" bolts

			DR CO					
Component:	er: Siemens Health Patient Table Patier: 10281013		OSP-0 Mohamm HE: 11/3	nad Kar Test Lo Test Da	im cation: Env te: March 2 Number: S	012		boratory
						_		
	<b>n</b> : Motorized patie							
	otion: Component of n FE 3542 pR (P/N			INAA S	ystems, me	ludes wi-D	Digital Dec	cector -
	u i i 5572 pix (f/i)				-			
			UUT PRO	PERTIE	ES			
Weight w/			ons (inches)	ī.			al Frequenc	
Patient(lb)	Width		pth		eight	FB	SS	V
1,675	94.9		1.5		3-37.5	2.4	23.0	11.7
system was tes	le moves laterally bo ted in the normal ope ulated patient weight	erating posit t of 660lbs.	tion with the	table hor	izontally cen	-	-	
			IIC TEST					
Building Co	de / Test Criteria	$S_{DS}(g)$	z / h	I <sub>P</sub>	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX\text{-}V}\left(g\right)$	$A_{RIG-V}(g)$
	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.34	0.54
	vas full of contents dur				before and afte	er the ICC-ES	AC156 test.	The unit
maintained struc	tural integrity during a	ind after the I	CC-ES ACIS	o rest.				

UUT<sub>w</sub>-3



Mounting Details: Rigid wall mounted with 4 - 1/4" sheet metal screws



UUT<sub>w</sub>-4



Mounting Details: Rigid floor mounted with 4 - 5/8" bolts



UUT Function: Wall stand for radiographic medical imaging

**UUT Description:** Component of the YSIO and YSIO MAX systems includes wi-D Digital Detector, Trixell Pixium FE 3542 pR (P/N: 62155967)

	UUT PROPERTIES										
Weight (lb)     Dimensions (inches)     Natural Frequency (Hz)											
weight (10)	Width Depth Height FB SS					V					
661	30	26	5.9	8	32.5	8.8	8.1	8.8			
		SEISM	IC TEST	PARAM	IETERS						
Building Co	ode / Test Criteria	$S_{DS}(g)$	z / h	I <sub>P</sub>	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$			
CBC 2022 /	CBC 2022 / ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 1.34 0.54										
	vas full of contents dur tural integrity during a	0 0			before and afte	er the ICC-ES	S AC156 test.	The unit			

UUT<sub>w</sub>-5



**Mounting Details:** Rigid wall mounted at top back side of unit with 4 - 1/4" grade 8 bolts and rigid floor mounted with 2 - 3/8" grade 8 bolts. Wall mount brackets constructed of 4" long L4x2.5x0.25 angles that bolt thru the short leg to the UUT with a single 1/2" grade 8 bolt.

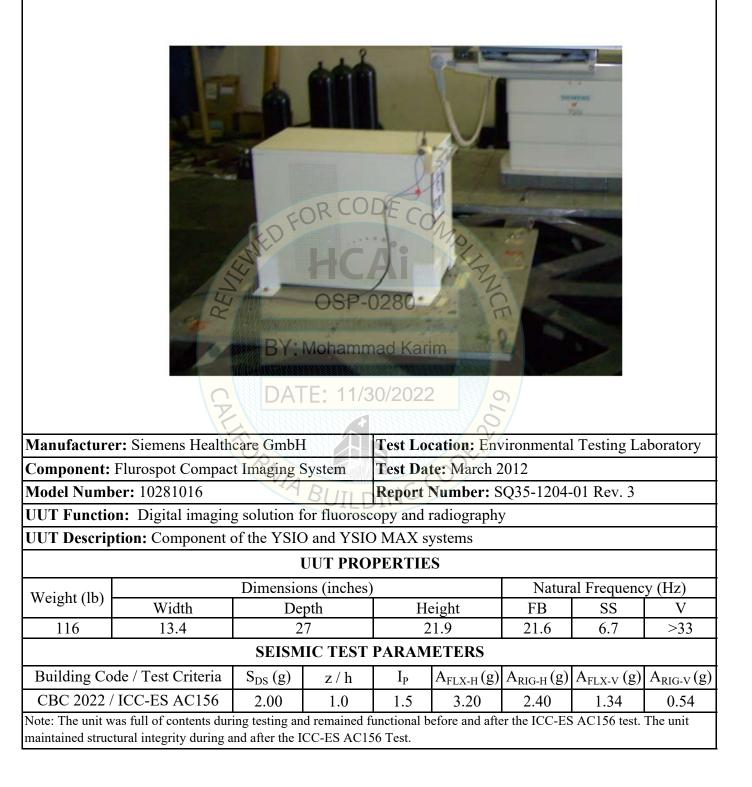


		TA	LAN TO MILLAN					
Manufacture	r: Siemens Health	care GmbH	RUTE	Test Lo	est Location: Environmental Testing Laboratory			
Component:	Polydoros R80 Ge	nerator Cal	oinet	Test Date: March 2012				
Model Numb	er: 10096980			Report Number: SQ35-1204-01 Rev. 3				
<b>UUT Functio</b>	n: Generator for ra	adiography	and fluor	scopy sys	stems			
<b>UUT Descrip</b>	tion: Component of	of the YSIC	) and YSI	O MAX s	ystems			
		ا	UUT PRO	PERTIE	S			
Weight (lb)		Dimensio	ns (inches	)		Natura	al Frequenc	y (Hz)
weight (10)	Width	De	pth	H	eight	FB	SS	V
883	31	1	7	8	36.8	N/A	N/A	N/A
		SEISM	IC TEST	PARAM	ETERS			
Building Coo	le / Test Criteria	$S_{DS}(g)$	z / h	I <sub>P</sub>	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 /	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.34	0.54
	as full of contents dur ural integrity during a				efore and afte	er the ICC-ES	AC156 test.	The unit

UUT<sub>w</sub>-6



Mounting Details: Rigid floor mounted with 4 - 3/8" cap screws with washers





Mounting Details: Rigid floor mounted using 4 - 5/8" grade 8 bolts with washers



BY: Mohammad Karim

Manufacturer: Siemens Healthcare GmbH	Test Location: Environmental Testing Laboratory
Component: YSIO MAX Patient Table	Test Date: October 2014
Model Number: 10273210	Report Number: SQ35-1416-01 Rev. 2

UUT Function: Motorized patient table for support and positioning for image acquisition

**UUT Description:** Component of YSIO and YSIO MAX systems, includes MAX wi-D wireless mobile digital detector - Trixell Pixium 3543EZh (P/N: 10762402)

#### **UUT PROPERTIES**

Weight w/		Dimensions (inches)	Natura	al Frequenc	y (Hz)	
Patient(lb)	Width	Depth	Height	FB	SS	V
1,275	94.9	31.5	20.3 - 37.6	25.2	>33	11.6

The patient table moves laterally both ways and vertically to accommodate different patients and procedures. The system was tested in the normal operating position with the table horizontally centered, a table top height of 30", and a total simulated patient weight of 440lbs.

SEISMIC TEST PARAMETERS							
$\begin{array}{c c c c c c c c c c c c c c c c c c c $							
CBC 2022 / ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 1.34 0.54							
Note: The unit was full of contents dur	ing testing an	d remained f	unctional b	efore and afte	er the ICC-ES	S AC156 test.	The unit

maintained structural integrity during and after the ICC-ES AC156 Test.



Mounting Details: Rigid floor mounted with 4 - 5/8" grade 8 bolts



Component. Bucky wan Stand w/ MAA Static	Test Date. October 2014
Model Number: 10681702	Report Number: SQ35-1416-01 Rev. 2

UUT Function: Radiographic wall stand for X-ray exposures

**UUT Description:** Component of YSIO and YSIO MAX systems includes Trixell MAX Static fixed plate detector (P/N: 10762401)

	<b>UUT PROPERTIES</b>							
Weight (lb)	Weight (Ib)Dimensions (inches)Natural Frequency (Hz)							
weight (10)	Weight (lb)WidthDepthHeightFBSSV							
528 30 48.9					85	8.6	7.7	8.7
		SEISM	IC TEST	PARAN	IETERS			
Building Co	de / Test Criteria	$S_{DS}(g)$	z / h	I <sub>P</sub>	$A_{FLX-H}(g)$	$A_{\text{RIG-H}}(g)$	$A_{FLX\text{-}V}\left(g\right)$	$A_{RIG-V}(g)$
CBC 2022 /	CBC 2022 / ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 1.34 0.54						0.54	
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.								



Mounting Details: Rigid floor mounted with 4 - 3/8" bolts

			CO COSP-C Mohamm	had Kari				
Manufacture	r: Siemens Health	care GmbH					l Testing La	boratory
_	Fluorospot Compa	ct (FLC)		NULL	te: October			
Model Numb		N.	BUILD		Number: S		-01 Rev. 2	
	<b>n:</b> Digital imaging							
UUT Descrip	tion: Component of							
		1	UUT PRO	PERTIE	S			
Weight (lb)		Dimensio	ns (inches)			Natur	al Frequenc	y (Hz)
	Width	De			eight	FB	SS	V
85	13.4		6		21.7	20.7	12.7	26.3
		SEISM	IC TEST	PARAM	ETERS			
Building Co	de / Test Criteria	$S_{DS}(g)$	z / h	I <sub>P</sub>	$A_{FLX-H}(g)$	$A_{\text{RIG-H}}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 /	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.34	0.54
	as full of contents dur tural integrity during a				before and afte	er the ICC-ES	S AC156 test.	The unit

UUT<sub>y</sub>-4



Mounting Details: Rigid wall mounted with 4 - 1/4" screws





Manufacturer: Siemens Healthcare GmbH	Test Location: Environmental Testing Laboratory
Component: Wireless access point	Test Date: October 2014
Model Number: Scalance W700	Report Number: SQ35-1416-01 Rev. 2

UUT Function: Wireless access point

UUT Description: Component of the YSIO and YSIO MAX systems

#### **UUT PROPERTIES**

Weight (1b)	Dimensions (inches) Natural Frequency (Hz)						
Weight (lb)	Width Depth Height FB SS					V	
6 7.9 2.8 6.2 N/A N/A N/A					N/A		
SEISMIC TEST PARAMETERS							
Building Code / Test Criteria $S_{DS}(g)$ $z / h$ $I_P$ $A_{FLX-H}(g) A_{RIG-H}(g) A_{FLX-V}(g) A_{RIG-V}(g)$							
CBC 2022 / ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 1.34 0.54							
	Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.						

UUT<sub>y</sub>-6



**Mounting Details:** Rigid wall mounted at top back side of unit with 4 - 1/4" grade 8 bolts and rigid floor mounted with 2 - 5/8" grade 8 bolts. Wall mount brackets constructed of 4" long L4x2.5x0.25 angles that bolt thru the short leg to the UUT with a single 1/2" grade 8 bolt.



		TA.						
Manufacture	r: Siemens Health	care GmbH	RUTE	Test Location: Environmental Testing Laboratory				
Component:	Polydoros Generat	or Cabinet	POIL	Test Da	te: October	2014		
Model Number: 10096950			Report	Number: S	Q35-1416-	01 Rev. 2		
<b>UUT Functio</b>	n: Generator for ra	adiography	and fluore	scopy sys	stems			
<b>UUT Descrip</b>	tion: Component	of the YSIC	) and YSI	O MAX s	ystems			
			UUT PRO	PERTIE	S			
Weight (lb)		Dimensio	ns (inches	Natural Frequency (Hz)				
weight (10)	Width	De	pth	Η	eight	FB	SS	V
835	31.5	17	.1	8	36.7	N/A	N/A	N/A
		SEISM	IC TEST	PARAM	IETERS			
Building Co	de / Test Criteria	$S_{DS}(g)$	z / h	IP	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 1.34 0.54							0.54	
	as full of contents dur tural integrity during a				before and afte	er the ICC-ES	AC156 test.	The unit

UUT<sub>x</sub>-1



**Mounting Details:** Rails and connecting parts of the component bolt with 2 -M10 bolts (20 bolts total) to unistrut grid spaced at 26.0" on center. The unistrut grid consisted of Unistrut P1001 rails anchored with 2 - 3/8" bolts at each intersection to the ceiling fixture framing spaced at 20" on center.

Manufacture	r: Siemens Health		Mohamm	0/2022		ironmenta	1 Testing La	iboratory
Component:	X-Ray Tube Stand	w/ 3m Bri	dge	Test Dat	te: April 20	10		
Model Numb	er: 7042232	Os UN		Report 1	Number: S	SC10-1010	0-2 Rev. 2	
<b>UUT Functio</b>	n: X-Ray stand, ce	eiling suspe	nded, for u	se in radi	<mark>ography</mark> im	aging, full	y synchroni	zed
<b>UUT Descrip</b>	tion: Component of	of the Lumi	inos dRF S	ystem				
			UUT PRO	PERTIE	S			
$W_{a} = 1 \pm (11)$		Dimensio	ons (inches)			Natur	al Frequenc	y (Hz)
Weight (lb)	Width	De	pth	He	eight	FB	SS	V
754	120		26		106	N/A	N/A	N/A
patients and pro	pended tube stand m peedures. The system ration, and with a he	n was tested ight of 50" f	in the norm	al operatin 1g point to	ng position w bottom of c	ith the syste		
Building Co.	de / Test Criteria	$S_{DS}(g)$	z / h	IP		A <sub>RIG-H</sub> (g)	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.34	0.54
Note: The unit w	as full of contents dur tural integrity during a	ing testing an	d remained fu	inctional be				

UUT<sub>z</sub>-2

### UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - 5/8" Gr. 8 bolts





Mounting Details: Rigid floor mounted with 4 - 3/8" bolts





Mounting Details: Rigid wall mounted with 4 - 1/4" sheet metal screws

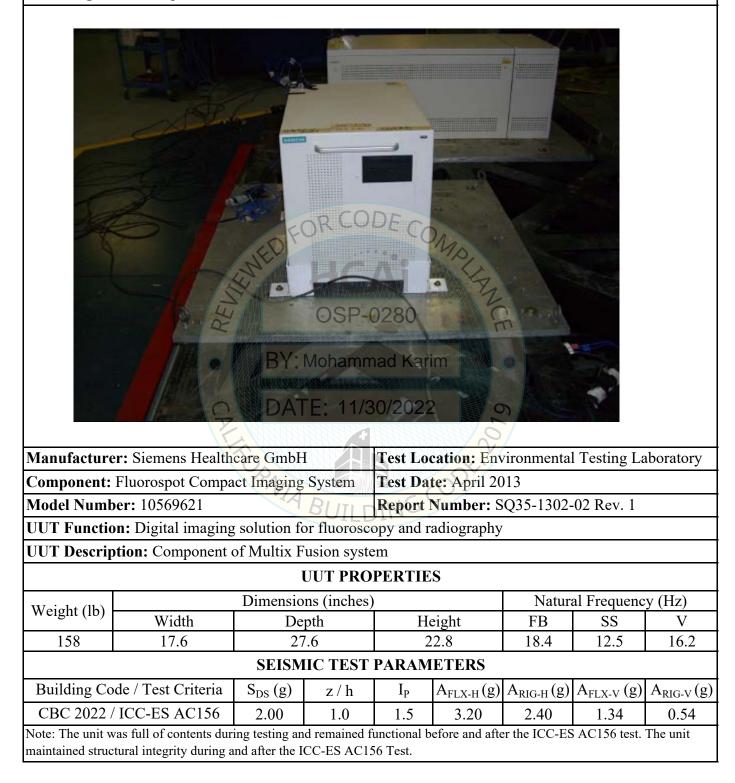


UUT<sub>v</sub>-3

# UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - 3/8" bolts



UUT<sub>v</sub>-6



Mounting Details: Rails and connecting parts of the component bolt with 2 -M10 bolts (20 bolts total) to unistrut grid spaced at 26.0" on center. The unistrut grid consisted of Unistrut P1001 rails anchored with 2 -3/8" bolts at each intersection to the ceiling fixture framing spaced at 20" on center.

Test Date: April 2013Model Number:10746666 / 7042166Report Number:SQ35-1302-02 Rev. 1UUT Function: X-Ray stand, ceiling suspended, for use in radiography imaging, fully synchronizedUUT Description: Component of Multix Fusion systemUUT PROPERTIESWeight w/Dimensions (inches)Natural Frequency (Hz)Rails (lb)WidthDepthHeightFBSSV75016711933-104N/AN/AN/ASEISMIC TEST PARAMETERSBuilding Code / Test CriteriaSg (g) $z / h$ IpA <sub>FLX-H</sub> (g)A <sub>FLX-V</sub> (g)A <sub>RIG-V</sub> (g)CEISMIC TEST PARAMETERSBuilding Code / Test CriteriaS_D (g) $z / h$ IpA <sub>FLX-H</sub> (g)A <sub>FLX-V</sub> (g)A <sub>RIG-V</sub> (g)Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.	Manufacture	r: Siemens Health		OSP-0 Mohamma	)/2022	cation: Env	vironmental	I Testing La	iboratory
UUT Function: X-Ray stand, ceiling suspended, for use in radiography imaging, fully synchronized         UUT Description: Component of Multix Fusion system         UUT PROPERTIES         Weight w/       Dimensions (inches)       Natural Frequency (Hz)         Rails (lb)       Width       Depth       Height       FB       SS       V         750       167       119       33-104       N/A       N/A       N/A         The ceiling suspended tube stand moves laterally, rotates, and extends up and down to accommodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with a height of 72" from mounting point to bottom of collimator.       SEISMIC TEST PARAMETERS         Building Code / Test Criteria       S <sub>DS</sub> (g) $Z / h$ Ip $A_{FLX-H}(g)$ $A_{FLX-V}(g)$ $A_{RIG-V}(g)$ CBC 2022 / ICC-ES AC156       2.00       1.0       1.5       3.20       2.40       1.34       0.54         Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit       The unit	<b>Component:</b>	X-Ray Tube Stand	w/ 3m Bri	dge	Test Dat	te: April 20	)13		
UUT Description: Component of Multix Fusion system         UUT PROPERTIES         Weight w/       Dimensions (inches)       Natural Frequency (Hz)         Rails (lb)       Width       Depth       Height       FB       SS       V         750       167       119       33-104       N/A       N/A       N/A         The ceiling suspended tube stand moves laterally, rotates, and extends up and down to accommodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with a height of 72" from mounting point to bottom of collimator.         SEISMIC TEST PARAMETERS         Building Code / Test Criteria       SDS (g)       Z / h       IP       A <sub>FLX-H</sub> (g)       A <sub>FLX-V</sub> (g)       A <sub>RIG-V</sub> (g)         CBC 2022 / ICC-ES AC156       2.00       1.0       1.5       3.20       2.40       1.34       0.54         Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit       The unit	Model Numb	er: 10746666 / 704	42166		Report 1	Number: S	Q35-1302-	02 Rev. 1	
UUT PROPERTIESWeight w/ Rails (lb)Dimensions (inches)Natural Frequency (Hz)Rails (lb)WidthDepthHeightFBSSV75016711933-104N/AN/AN/AThe ceiling suspended tube stand moves laterally, rotates, and extends up and down to accommodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with a height of 72" from mounting point to bottom of collimator.SEISMIC TEST PARAMETERSBuilding Code / Test CriteriaSDS (g) $Z / h$ IPAFLX-H (g)AFLX-V (g)ARIG-V (g)CBC 2022 / ICC-ES AC1562.001.01.53.202.401.340.54Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit	<b>UUT Functio</b>	on: X-Ray stand, ce	eiling suspe	ended, for us	e in radic	ography ima	aging, fully	synchroniz	zed
Weight w/ Rails (lb)Dimensions (inches)Natural Frequency (Hz)Rails (lb)WidthDepthHeightFBSSV75016711933-104N/AN/AN/AThe ceiling suspended tube stand moves laterally, rotates, and extends up and down to accommodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with a height of 72" from mounting point to bottom of collimator.SEISMIC TEST PARAMETERSBuilding Code / Test CriteriaSDS (g)z / hIPAFLX-H (g)AFLX-V (g)AFIG-V (g)CBC 2022 / ICC-ES AC1562.001.01.53.202.401.340.54Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit	<b>UUT Descrip</b>	tion: Component of	of Multix F	usion system	ING				
Rails (lb)WidthDepthHeightFBSSV75016711933-104N/AN/AN/AThe ceiling suspended tube stand moves laterally, rotates, and extends up and down to accommodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with a height of 72" from mounting point to bottom of collimator.SEISMIC TEST PARAMETERSBuilding Code / Test CriteriaSDS (g) $z / h$ IPA <sub>FLX-H</sub> (g)A <sub>FLX-V</sub> (g)A <sub>RIG-V</sub> (g)CBC 2022 / ICC-ES AC1562.001.01.53.202.401.340.54Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit			1	UUT PROP	ERTIES				
75016711933-104N/AN/AN/AThe ceiling suspended tube stand moves laterally, rotates, and extends up and down to accommodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with a height of 72" from mounting point to bottom of collimator.SEISMIC TEST PARAMETERSBuilding Code / Test CriteriaSDS (g)Z / hIPAFLX-H (g)AFLX-V (g)ARIG-V (g)CBC 2022 / ICC-ES AC1562.001.01.53.202.401.340.54Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit	Weight w/		Dimensio	ons (inches)			Natura	l Frequency	y (Hz)
The ceiling suspended tube stand moves laterally, rotates, and extends up and down to accommodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with a height of 72" from mounting point to bottom of collimator. <b>SEISMIC TEST PARAMETERS</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 2022 / ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 1.34 0.54 Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit	Rails (lb)	Width	De	epth	He	eight	FB	SS	V
patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with a height of 72" from mounting point to bottom of collimator. <b>SEISWIC TEST PARAMETERS</b> Building Code / Test Criteria $S_{DS}(g)$ $z / h$ $I_P$ $A_{FLX-H}(g)$ $A_{RIG-H}(g)$ $A_{FLX-V}(g)$ $A_{RIG-V}(g)$ CBC 2022 / ICC-ES AC156 2.00 1.0 1.5 3.20 2.40 1.34 0.54 Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit	750	167	1	19	33	-104	N/A	N/A	N/A
Building Code / Test Criteria $S_{DS}(g)$ $z / h$ $I_P$ $A_{FLX-H}(g)$ $A_{RIG-H}(g)$ $A_{FLX-V}(g)$ $A_{RIG-V}(g)$ CBC 2022 / ICC-ES AC1562.001.01.53.202.401.340.54Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit	patients and pro	ocedures. The system	n was tested ight of 72" f	in the norma	l operating g point to	g position wi bottom of co	ith the syste		
CBC 2022 / ICC-ES AC156       2.00       1.0       1.5       3.20       2.40       1.34       0.54         Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit       0.54	Building Co	de / Test Criteria					$\Delta_{\rm resc} = (\alpha)$	$\Delta = \dots = (\alpha)$	$\Delta = = (\alpha)$
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit									
	Note: The unit w	vas full of contents duri	ing testing an	d remained fur	nctional bef				

UUT<sub>v</sub>-7

## UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - 5/8" bolts



Manufacturer: Siemens Healthcare GmbH	Test Location: Environmental Testing Laboratory
Component: Pro Non-Tilt Wall Stand	Test Date: August 2013
Model Number: 10681650	Report Number: SQ35-1302-02 Rev. 1

UUT Function: Wall stand for radiographic medical imaging

**UUT Description:** Component of Multix Fusion system, included Varian Medical Systems portable digital detector (P/N: 10847569) installed in cassette tray during test. Cassette tray was modified to prevent detector from ejecting during testing.

#### **UUT PROPERTIES**

Weight (lb)		Natural Frequency (Hz)								
weight (10)	Width	Depth		Height		FB	SS	V		
452	30 16.6			8	32.9	12.8	14.5	13.6		
SEISMIC TEST PARAMETERS										
Building Code / Test Criteria $S_{DS}(g)$ $Z / h$ $I_P$ $A_{FLX-H}(g)$					$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$			
CBC 2022 / ICC-ES AC156 2.00 1.0 1.5 3.20					2.40	1.34	0.54			
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit										
maintained structural integrity during and after the ICC-ES AC156 Test.										



Mounting Details: Rigid floor mounted with 4 - 5/8" bolts



#### DATE: 11/30/2022

Manufacturer: Siemens Healthcare GmbH	Test Location: Environmental Testing Laboratory
Component: Top Tilting Wall Stand	Test Date: August 2013
Model Number: 10681670	Report Number: SQ35-1302-02 Rev. 1

UUT Function: Wall stand for radiographic medical imaging

**UUT Description:** Component of Multix Fusion system, included Varian Medical Systems portable digital detector (P/N: 10847569) installed in cassette tray during test. Cassette tray was modified to prevent detector from ejecting during testing.

#### **UUT PROPERTIES**

Waight (1h)		Natural Frequency (Hz)								
Weight (lb)	Width	Depth		Height		FB	SS	V		
490	30	2	8.1	8	32.9	8.4	9.1	9.3		
SEISMIC TEST PARAMETERS										
Building Code / Test Criteria $S_{DS}(g) = z / h$					$A_{FLX-H}(g)$	$A_{\text{RIG-H}}(g)$	$A_{FLX\text{-}V}\left(g\right)$	$A_{RIG-V}(g)$		
CBC 2022 / ICC-ES AC156 2.00 1.0					3.20	2.40	1.34	0.54		
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit										
maintained structural integrity during and after the ICC-ES AC156 Test.										



Mounting Details: Rigid floor mounted with 4 - 5/8" bolts



BY: Mohammad Karim

Test Location: Environmental Testing Laborate				
Test Date: August 2013				
Report Number: SQ35-1302-02 Rev. 1				

UUT Function: Motorized patient table for support and positioning for image acquisition

**UUT Description:** Component of Multix Fusion system, included Varian Medical Systems portable digital detector (P/N: 10847569) installed in cassette tray during test. Cassette tray was modified to prevent detector from ejecting during testing.

#### **UUT PROPERTIES**

Weight (lb)	Dimensions (inches)				Natural Frequency (Hz)			
with Patient	Width	Depth	Height	FB	SS	V		
1,546	31.5	94.8	20.3-37.6	2.4	27.4	7.4		

The patient table moves laterally both ways and vertically to accommodate different patients and procedures. The system was tested in the normal operating position with the table horizontally centered, a table top height of 32", and a total simulated patient weight of 660lbs.

SEISMIC TEST PARAMETERS							
Building Code / Test Criteria	$S_{DS}(g)$	z / h	I <sub>P</sub>	$A_{FLX-H}(g)$	$A_{\text{RIG-H}}(g)$	$A_{FLX-V}\left(g\right)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.34	0.54
		1 1 1 0		0 1 0	1 100 50		

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.