



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

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

OFFICE USE ONLY

APPLICATION #: OSP-0679

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Siemens Healthcare GmbH, Diagnostic Imaging, Computed Tomography

Manufacturer's Technical Representative: Markus Nagel

Mailing Address: Siemensstr. 1, Forchheim, Ge 91301

Telephone: (49919) 118-7231

Email: markus.nagel@siemens-healthineers.com

Product Information

Product Name: CT Systems

Product Type: NA

Product Model Number: Somatom CT Systems

General Description: Multiple component system for producing Computed Tomography (CT) medical images for a wide variety of medical diagnostic results.

Mounting Description: Several – See UUT Sheets, See Certified Product Tables

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: WE Gundy & Associates, Inc

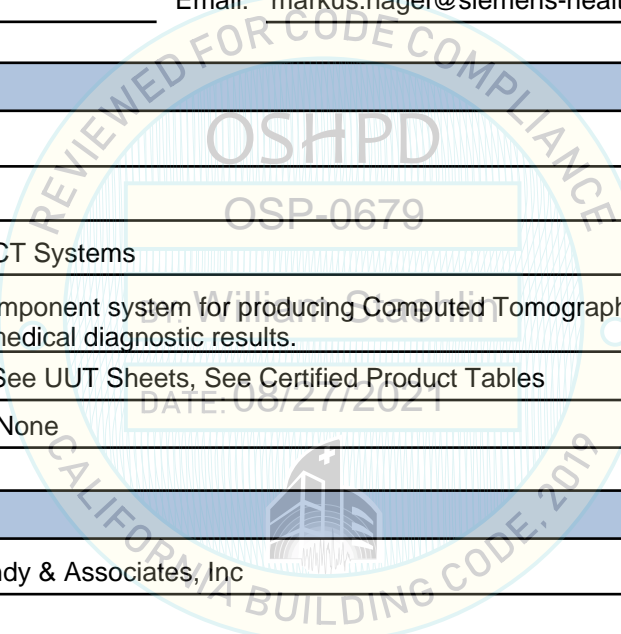
Contact Person: Travis Soppe

Mailing Address: PO Box 9121, Boise, ID 83707

Telephone: (208) 342-5989

Email: tsoppe@wegai.com

Title: President





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

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

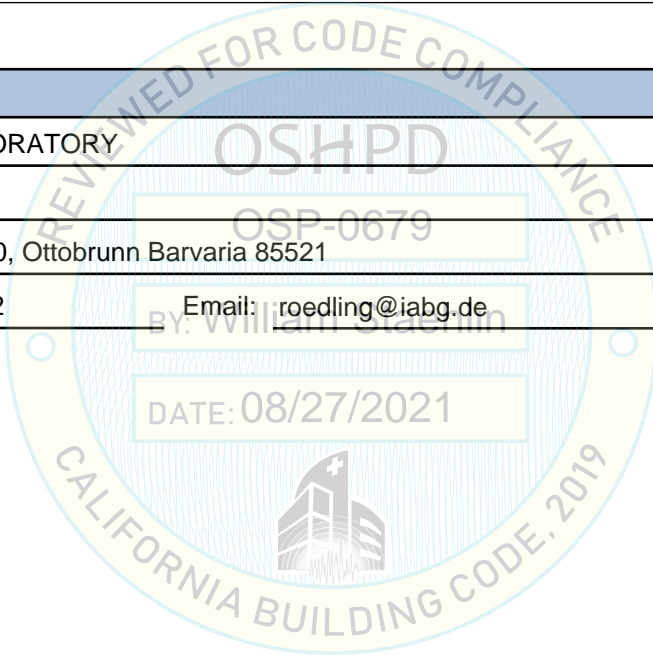
Company Name: W.E. GUNDY & ASSOCIATES INC.
Name: Travis Soppe California License Number: S6115
Mailing Address: P.O. Box 9121, Boise, ID 83707
Telephone: (208) 342-5989 Email: tsoppe@wegai.com

Certification Method

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

Testing Laboratory

Company Name: IABG TEST LABORATORY
Contact Person: Steffen Roedling
Mailing Address: Einsteinstrasse 20, Ottobrunn Barvaria 85521
Telephone: +49 (0) 89 / 6088-2052 Email: roedling@iabg.de





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

Seismic Parameters

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

SDS (Design spectral response acceleration at short period, g) = 2.0

a_p (Amplification factor) = See Attachment

R_p (Response modification factor) = See Attachment

Ω_0 (System overstrength factor) = See Attachment

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

OSHPD Approval (For Office Use Only) - Approval Expires on 12/31/2025

Date: 8/27/2021

Name: William Staehlin Title: Senior Structural Engineer

Special Seismic Certification Valid Up to: SDS (g) = 2.0 z/h = 1

Condition of Approval (if applicable): DATE: 08/27/2021

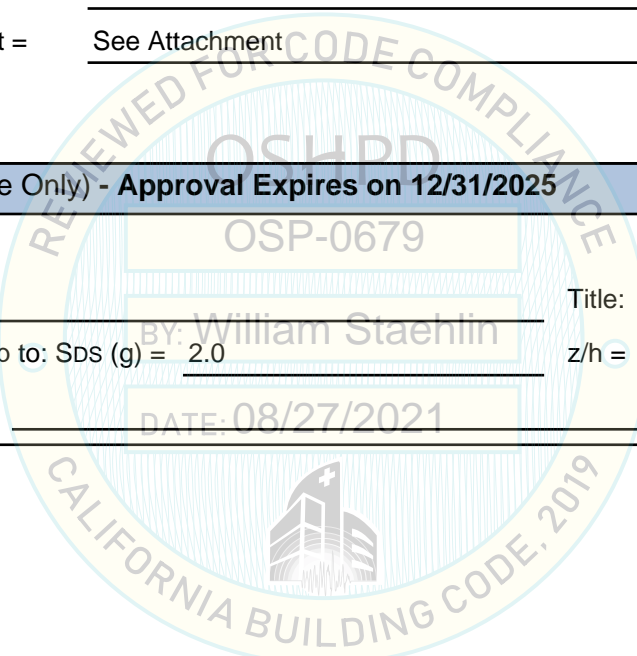


TABLE 1

**SIEMENS HEALTHCARE GmbH
SPECIAL SEISMIC CERTIFICATION
CERTIFIED SYSTEM AND COMPONENTS**



Manufacturer: Siemens Healthcare GmbH

System: SOMATOM CT Systems

System Component ¹	Siemens Part Number	Dimensions (in)			Weight (lb)	Mounting	UUT ²
		Width	Depth	Height			
Gantries							
Confidence	10590100	93.7	36.8	78.0	4523	floor	UUT _w -1
Definition AS	8098027	92.9	36.7	78.0	4554	floor	UUT _y -2
Definition AS Open	8098027	92.9	36.7	78.0	4554	floor	UUT _y -3
Edge Plus	10267000	93.7	36.8	78.0	4607	floor	UUT _z -1
Definition Edge	10590000	93.7	36.8	78.0	4851	floor	interpolated
Definition Flash	10430603	91.1	47.4	78.0	5614	floor	UUT _y -1
Drive	10431700	94.5	48.0	78.4	5672	floor	UUT _v -1
Force	10742326	94.5	46.5	78.3	5900	floor	UUT _z -2
Power Distribution Cabinets (PDC)							
PDC-A	10662877	35.4	27.2	76.8	1162	floor / wall	UUT _v -4
PDC-B	10662878	35.4	27.2	76.8	814	floor / wall	UUT _v -5
PDC	10757110	47.2	29.5	75.2	2027	floor / wall	UUT _u -4

Notes:

¹ 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-component within the tested units.

² The units were tested at different times and the subscripts on the UUT's reference the following lab test reports:
 u - SQ35-1423-01 / v - TAF4-PB-16-226-V1 / w - TAF4-PB-16-370-V1 / x - TAF4-PB-17-033-V1 /
 y - TAF4-PB-16-310-V2 / z - TAF4-PB-18-059-V2

³ The two identification numbers listed for a single gantry are both used within the Siemens system to identify the same gantry that was tested.

⁴ The Definition AS and Definition AS Open are the same gantry with minor differences in the cover bore diameter, software, license key, and tub collimator. Both are identified by Siemens using the same primary model number and the differences are defined within the options of that main model number.

TABLE 1

**SIEMENS HEALTHCARE GmbH
SPECIAL SEISMIC CERTIFICATION
CERTIFIED SYSTEM AND COMPONENTS**



Manufacturer: Siemens Healthcare GmbH

System: SOMATOM CT Systems

System Component ¹	Siemens Part Number	Dimensions (in)			Weight (lb)	Mounting	UUT ²
		Width	Depth	Height			
Image Reconstruction Systems (IRS)							
IRSmx5a	10590110	8.3	17.7	26.8	53	floor	UUT _z -5
IRSmx5b	10590111	8.3	17.7	26.8	62	floor	UUT _z -6
IRSmx5c	10590112	8.3	17.7	26.8	60	floor	interpolated
IRSmx5d	10590113	8.3	17.7	26.8	60	floor	interpolated
IRSmx5e	10590114	8.3	17.7	26.8	60	floor	interpolated
IRSmx4a	10742951	12.2	27.0	19.7	86	floor	UUT _u -6
IRSmx4b	10890634	30.3	10.1	20.0	58	floor	UUT _x -4
IRSmx4c	10890635	30.3	10.1	20.0	53	floor	UUT _x -5
IRSmx4d	10890636	26.2	10.0	20.1	61	floor	UUT _x -3
Image Control System (ICS)							
ICS Tower 13E	11062028	7.3	18.9	16.9	25	floor	UUT _x -1
ICS Tower 12E	10864203	9.8	24.4	19.7	34	floor	UUT _x -2

Notes:

¹ 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-component within the tested units.

² The units were tested at different times and the subscripts on the UUT's reference the following lab test reports:
 u - SQ35-1423-01 / v - TAF4-PB-16-226-V1 / w - TAF4-PB-16-370-V1 / x - TAF4-PB-17-033-V1 /
 y - TAF4-PB-16-310-V2 / z - TAF4-PB-18-059-V2

TABLE 1

**SIEMENS HEALTHCARE GmbH
SPECIAL SEISMIC CERTIFICATION
CERTIFIED SYSTEM AND COMPONENTS**



Manufacturer: Siemens Healthcare GmbH

System: SOMATOM CT Systems

System Component ¹	Siemens Part Number	Dimensions (in)			Weight (lb)	Mounting	UUT ²
		Width	Depth	Height			
Patient Tables³							
PHS-1b	10643655	29.5	96.3-159.3	19.7-36.2	846	floor	UUT _w -2
PHS-4	8097144	29.5	95.7-158.7	18.9-36.2	933	floor	UUT _y -4
PHS-4n	11268204	29.3	100.5-179.5	24.3-41.7	1060	floor	UUT _z -3
PHS-5	10742323	29.5	100.5-179.5	24.3-41.7	1066	floor	UUT _u -2
MPT-2	8097102	29.5	95.7-174.4	21.6-36.2	1311	floor	UUT _y -5
MPT-2n	11268202	29.5	96.3-175.0	21.6-36.2	1175	floor	UUT _v -3
MPT-4	10742324	27.8	99.6-179.5	23.0-38.6	1258	floor	UUT _z -4

Notes:

¹ 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-component within the tested units.

² The units were tested at different times and the subscripts on the UUT's reference the following lab test reports:
u - SQ35-1423-01 / v - TAF4-PB-16-226-V1 / w - TAF4-PB-16-370-V1 / x - TAF4-PB-17-033-V1 /
y - TAF4-PB-16-310-V2 / z - TAF4-PB-18-059-V2

³ Patient table weights listed do not include simulated patient weight used for test. See UUT summary sheets for simulated patient weights.

SEISMIC CERTIFICATION LIMITS

System Component	Code	S _{DS} (g)	z / h	I _P	a _P	R _P	Ω ₀	F _P / W _P
Gantries	CBC 2019	2.0	1.0	1.50	1.0	1.5	2.0	2.40
Power Distribution Cabinets (PDC)	CBC 2019	2.0	1.0	1.50	2.5	6.0	2.0	1.50
Patient Tables	CBC 2019	2.0	1.0	1.50	1.0	1.5	2.0	2.40
Image Reconstruction Systems (IRS)	CBC 2019	2.0	1.0	1.50	1.0	2.5	2.0	1.44
Image Control System (ICS)	CBC 2019	2.0	1.0	1.50	1.0	2.5	2.0	1.44

UUT_{z-1}

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



Mounting Details: Rigid floor mounted with (4) M16 grade 12.9 bolts



Manufacturer: Siemens Healthcare GmbH **Test Location:** IABG mbH, Germany

Component: SOMATOM Edge Plus Gantry **Test Date:** December 2017

Model Number: 10267000 **Report Number:** TAF4-PB-18-059-V2

UUT Function: Continuous rotating x-ray to generate diagnostic imaging

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
4,607	93.7	36.8	78.0	13.1	15.3	> 33.0

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLEX-H} (g)	A _{RIG-H} (g)	A _{FLEX-V} (g)	A _{RIG-V} (g)
CBC 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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_{Z-2}

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



Mounting Details: Rigid floor mounted with (4) M16 grade 12.9 bolts



Manufacturer: Siemens Healthcare GmbH **Test Location:** IABG mbH, Germany

Component: SOMATOM Force Gantry **Test Date:** December 2017

Model Number: 10742326 **Report Number:** TAF4-PB-18-059-V2

UUT Function: Continuous rotating x-ray to generate diagnostic imaging

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
5,900	94.5	46.5	78.3	11.0	23.0	> 33.0

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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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_{Z-3}

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



Mounting Details: Rigid floor mounted with (4) M10 grade 12.9 bolts



Manufacturer: Siemens Healthcare GmbH	Test Location: IABG mbH, Germany
Component: PHS-4n Patient Table	Test Date: December 2017
Model Number: 11268204	Report Number: TAF4-PB-18-059-V2
UUT Function: Motorized patient table for moving patient through CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,475	29.5	100.5 – 179.5	24.3 – 41.7	3.4	2.6	9.7

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal operating position with a horizontal extension of 39.4" (139.8" length), vertical height of 36.2", and a total simulated patient weight of 415lbs.

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLEX-H} (g)	A _{RIG-H} (g)	A _{FLEX-V} (g)	A _{RIG-V} (g)
CBC 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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_z-4

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



Mounting Details: Rigid floor mounted with (4) M10 grade 12.9 bolts



REVIEWED FOR CODE COMPLIANCE
OSHPD
OSP-0679
BY: William Staehlin
DATE: 08/27/2021

Manufacturer: Siemens Healthcare GmbH	Test Location: IABG mbH, Germany
Component: MPT-4 Patient Table	Test Date: December 2017
Model Number: 10742324	Report Number: TAF4-PB-18-059-V2
UUT Function: Motorized patient table for moving patient through CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,818	27.8	99.6 – 179.5	23.0 – 38.6	3.0	> 33.0	14.0

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal operating position with a horizontal extension of 39.4" (139.0" length), vertical height of 36.2", and a total simulated patient weight of 560lbs.

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLEX-H} (g)	A _{RIG-H} (g)	A _{FLEX-V} (g)	A _{RIG-V} (g)
CBC 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

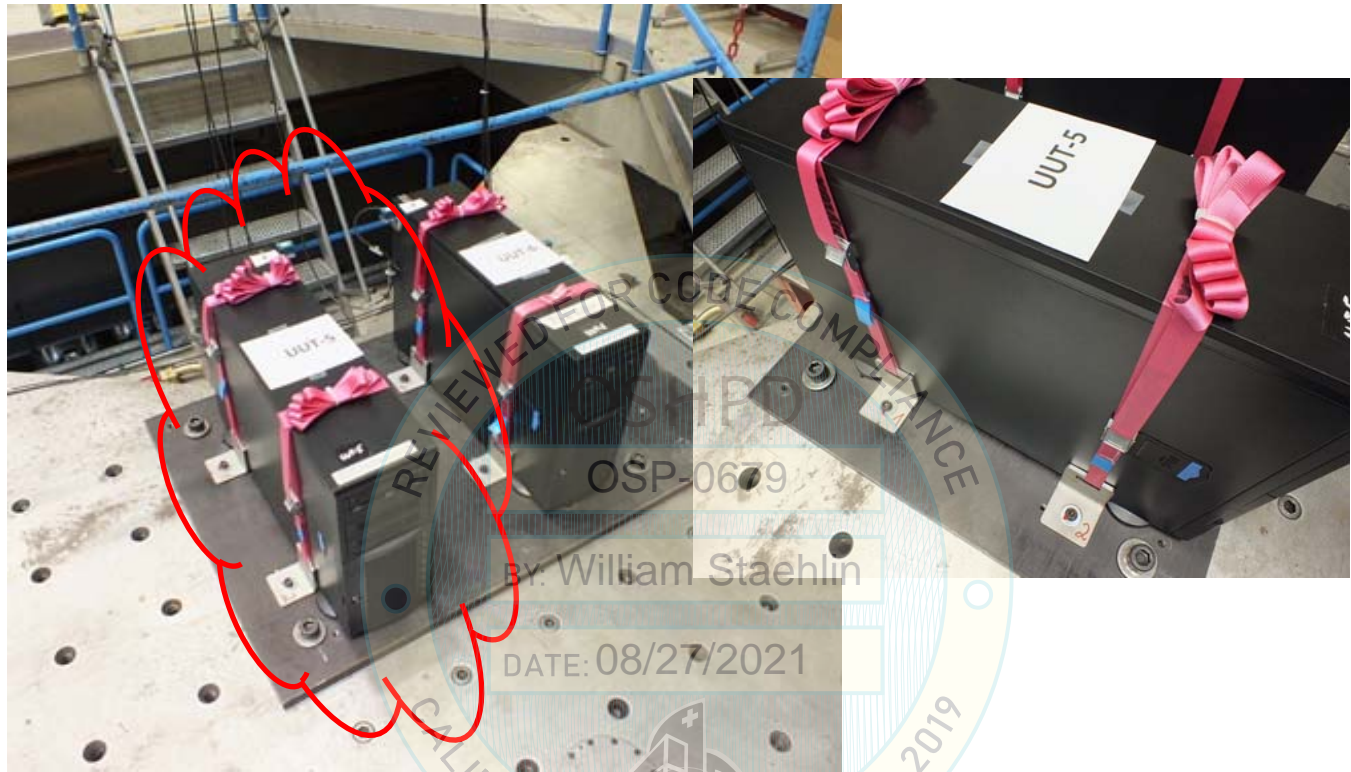
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_{Z-5}

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



Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1” wide hand-tightened cam buckle strap (560lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) M10 grade 8.8 bolt each.



Manufacturer: Siemens Healthcare GmbH	Test Location: IABG mbH, Germany
Component: PC IRSmx5a Imaging System	Test Date: December 2017
Model Number: 10590110	Report Number: TAF4-PB-18-059-V2
UUT Function: Imaging system PC	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
53	8.3	17.7	26.8	> 33.0	27.4	> 33.0

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLEX-H} (g)	A _{RIG-H} (g)	A _{FLEX-V} (g)	A _{RIG-V} (g)
CBC 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

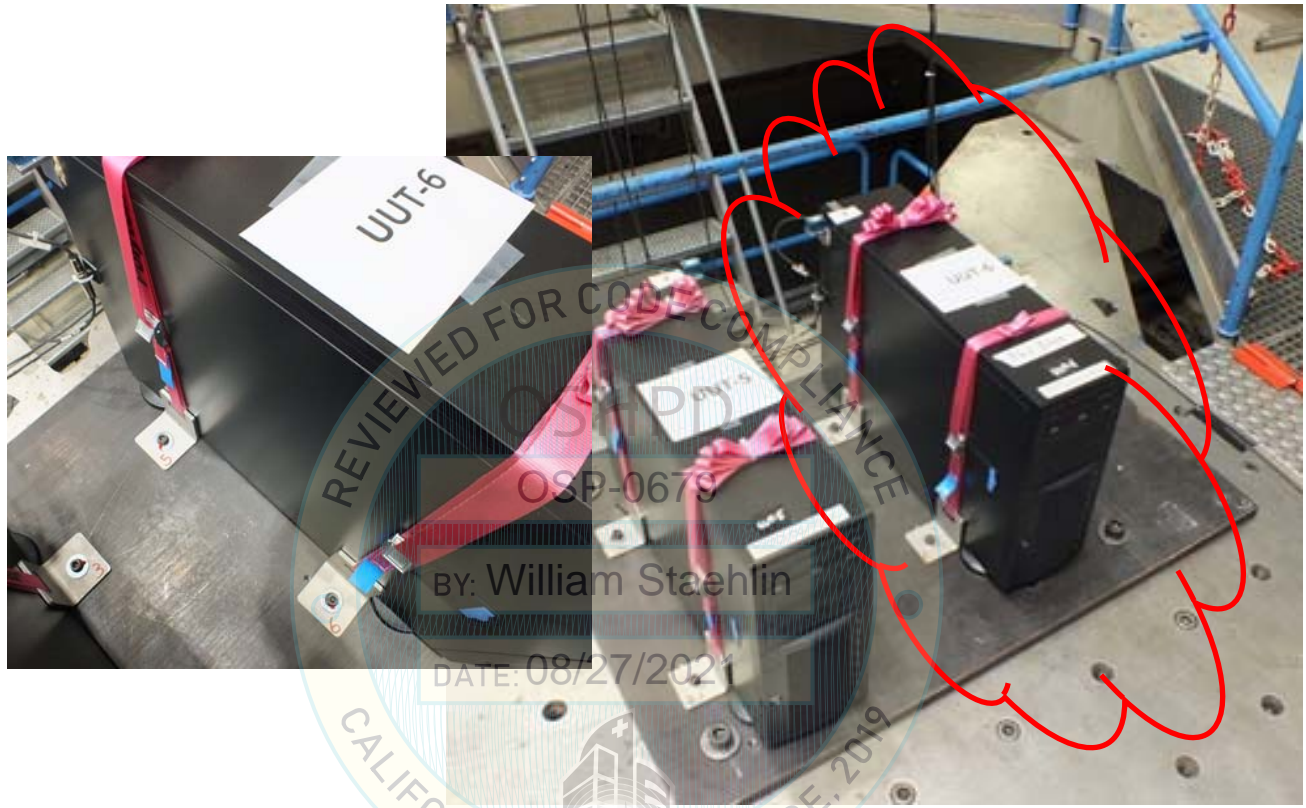
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_{z-6}

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



Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1” wide hand-tightened cam buckle strap (560lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) M10 grade 8.8 bolt each.



Manufacturer: Siemens Healthcare GmbH **Test Location:** IABG mbH, Germany

Component: PC IRSmx5b Imaging System **Test Date:** December 2017

Model Number: 10590111 **Report Number:** TAF4-PB-18-059-V2

UUT Function: Imaging system PC

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	Width	Depth
62	8.3	17.7	26.8	> 33.0	30.3	> 33.0

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	SDS (g)	z / h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

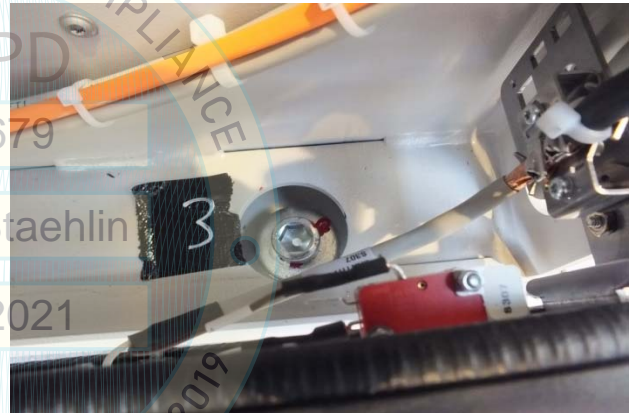
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_y-1

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



Mounting Details: Rigid floor mounted with (4) M16 grade 12.9 bolts



Manufacturer: Siemens Healthcare GmbH	Test Location: IABG mbH, Germany
Component: SOMATOM Definition Flash Gantry	Test Date: August 2016
Primary Model Number: 10430610	Report Number: TAF4-PB-16-310-V2
Secondary Model Number: 10430603	

UUT Function: Continuous rotating x-ray to generate diagnostic imaging

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
5,614	91.1	47.4	78.0	13.1	24.2	> 33.0

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLEX-H} (g)	A _{RIG-H} (g)	A _{FLEX-V} (g)	A _{RIG-V} (g)
CBC 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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_y-2

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



Mounting Details: Rigid floor mounted with (4) M16 grade 12.9 bolts



REVIEWED FOR CODE COMPLIANCE
BY: William Staehlin
DATE: 08/27/2021
CALIFORNIA BUILDING CODE 2019

Manufacturer: Siemens Healthcare GmbH	Test Location: IABG mbH, Germany
Component: SOMATOM Definition AS Gantry	Test Date: August 2016
Primary Model Number: 8098555	Report Number: TAF4-PB-16-310-V2
Secondary Model Number: 8098027	

UUT Function: Continuous rotating x-ray to generate diagnostic imaging

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
4,554	92.9	36.7	78.0	12.3	15.6	> 33.0

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLEX-H} (g)	A _{RIG-H} (g)	A _{FLEX-V} (g)	A _{RIG-V} (g)
CBC 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

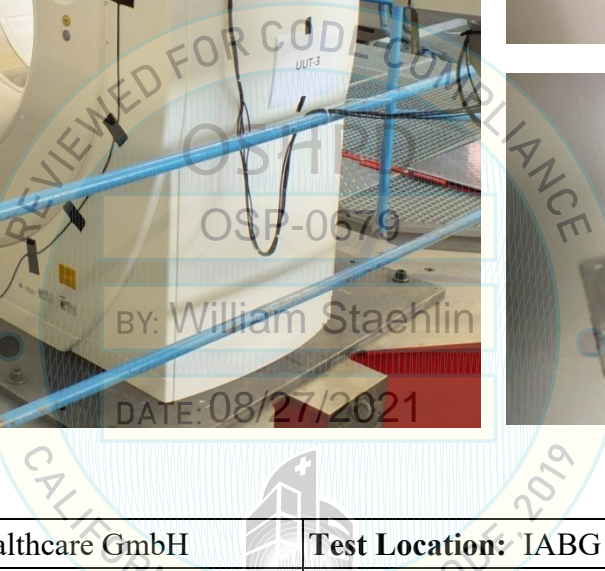
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_y-3

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



Mounting Details: Rigid floor mounted with (4) M16 grade 12.9 bolts



Manufacturer: Siemens Healthcare GmbH	Test Location: IABG mbH, Germany
Component: SOMATOM Definition AS Open	Test Date: August 2016
Primary Model Number: 8098555	Report Number: TAF4-PB-16-310-V2
Secondary Model Number: 8098027	
UUT Function: Continuous rotating x-ray to generate diagnostic imaging	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
4,554	92.9	36.7	78.0	12.0	15.1	> 33.0

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S _{DS} (g)	z / h	I _p	A _{AFLX-H} (g)	A _{ARIG-H} (g)	A _{AFLX-V} (g)	A _{ARIG-V} (g)
CBC 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

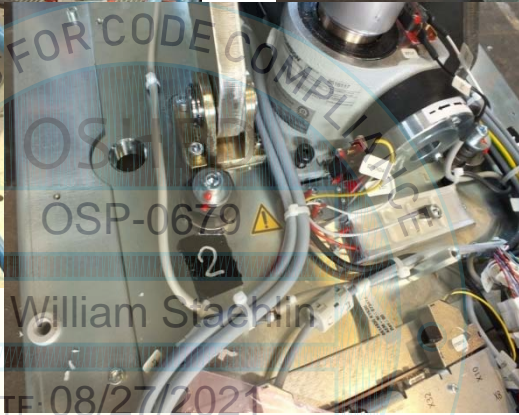
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_y-4

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



Mounting Details: Rigid floor mounted with (4) M10 bolts



Manufacturer: Siemens Healthcare GmbH	Test Location: IABG mbH, Germany
Component: PHS-4 Patient Table	Test Date: August 2016
Model Number: 8097144	Report Number: TAF4-PB-16-310-V2
UUT Function: Motorized patient table for moving patient through CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,241	29.5	95.7 – 158.7	18.9 – 36.2	3.3	13.2	12.2

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal operating position with a horizontal extension of 39.4" (135.1" length), vertical height of 36.2", and a total simulated patient weight of 308lbs.

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	SDS (g)	z / h	I _p	AFLX-H (g)	ARIG-H (g)	AFLX-V (g)	ARIG-V (g)
CBC 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

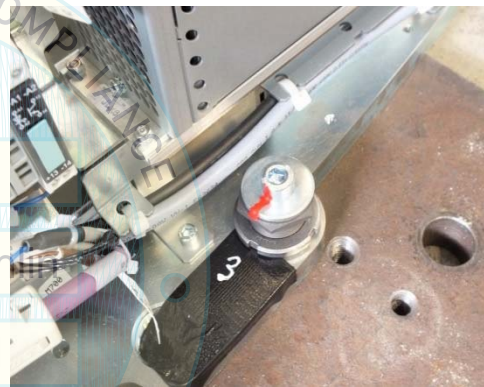
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_y-5

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



Mounting Details: Rigid floor mounted with (4) M10 bolts



Manufacturer: Siemens Healthcare GmbH	Test Location: IABG mbH, Germany
Component: MPT-2 Patient Table	Test Date: August 2016
Model Number: 8097102	Report Number: TAF4-PB-16-310-V2
UUT Function: Motorized patient table for moving patient through CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,619	29.5	95.7 – 174.4	21.6 – 36.2	4.7	22.6	14.6

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal operating position with a horizontal extension of 39.4" (135.1" length), vertical height of 36.2", and a total simulated patient weight of 308lbs.

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S _{DS} (g)	z / h	I _p	A _{AFLX-H} (g)	A _{ARIG-H} (g)	A _{AFLX-V} (g)	A _{ARIG-V} (g)
CBC 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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_{x-1}

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



Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1” wide hand-tightened cam buckle strap (560lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) M10 grade 8.8 bolt each.



Manufacturer: Siemens Healthcare GmbH **Test Location:** IABG mbH, Germany

Component: ICS Tower 13E **Test Date:** January 2017

Model Number: 11062028 **Report Number:** TAF4-PB-17-033-V1

UUT Function: Imaging control system

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
25	7.3	18.9	16.9	> 33.0	30.9	> 33.0

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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

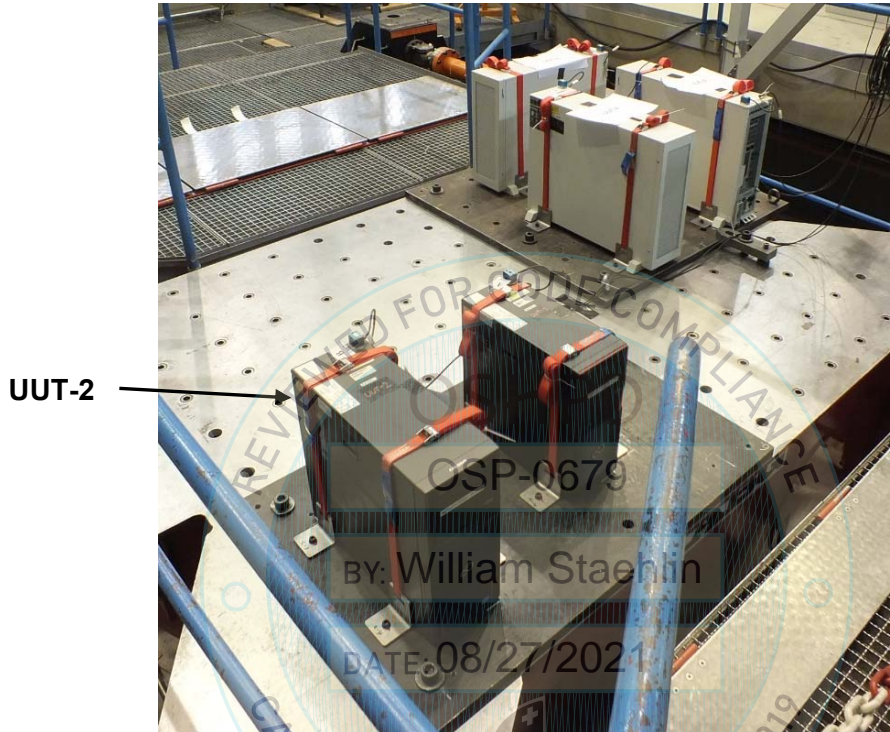
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_{x-2}

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



Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1” wide hand-tightened cam buckle strap (200lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) 3/8 grade 8 bolt each.



Manufacturer: Siemens Healthcare GmbH	Test Location: Environmental Test Laboratory
Component: Image control system	Test Date: January 2017
Model Number: 10864203	Report Number: TAF4-PB-17-033-V1

UUT Function: Imaging control system

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
34	9.8	24.4	19.7	> 33.0	20.3	> 33.0

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	SDS (g)	z / h	Ip	AFLX-H (g)	ARIG-H (g)	AFLX-V (g)	ARIG-V (g)
CBC 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

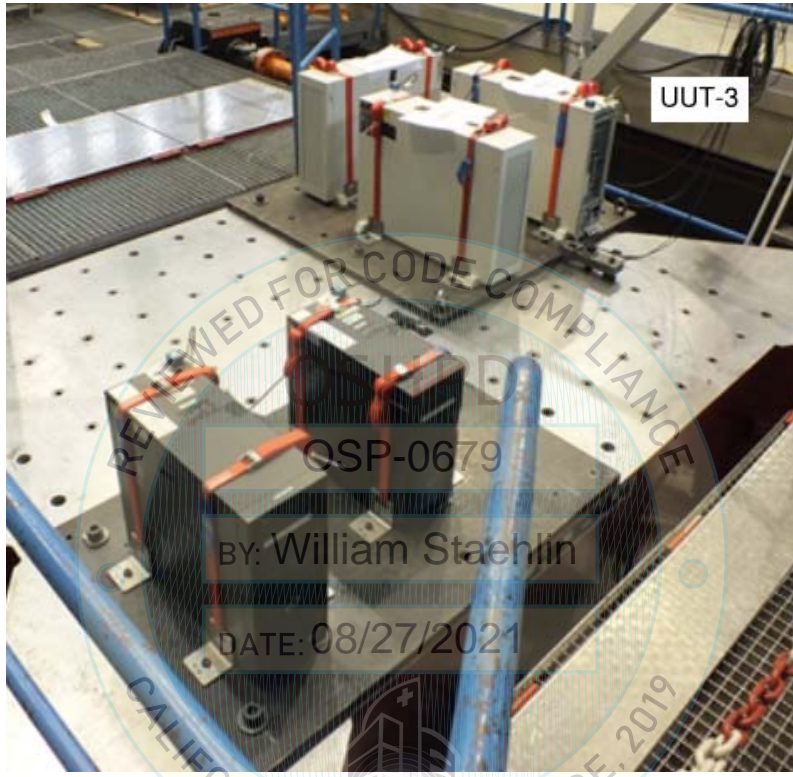
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_{x-3}

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



Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1” wide hand-tightened cam buckle strap (560lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) M10 grade 8.8 bolt each.



Manufacturer: Siemens Healthcare GmbH	Test Location: IABG mbH, Germany
Component: PC IRSmx4d Imaging System	Test Date: January 2017
Model Number: 10890636	Report Number: TAF4-PB-17-033-V1

UUT Function: Imaging system PC

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
61	26.2	10.0	20.1	> 33.0	26.0	> 33.0

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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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_{x-4}

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



Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1” wide hand-tightened cam buckle strap (560lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) M10 grade 8.8 bolt each.



Manufacturer: Siemens Healthcare GmbH	Test Location: IABG mbH, Germany
Component: PC IRSmx4b Imaging System	Test Date: January 2017
Model Number: 10890634	Report Number: TAF4-PB-17-033-V1

UUT Function: Imaging system PC

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
58	30.3	10.1	20.0	> 33.0	23.6	> 33.0

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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

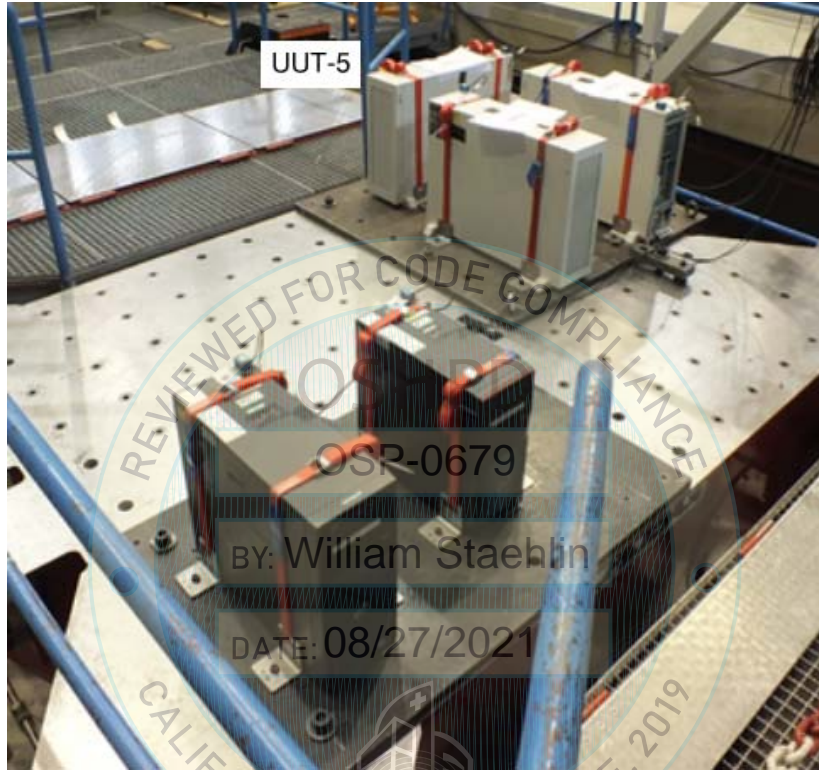
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_{x-5}

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



Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1” wide hand-tightened cam buckle strap (560lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) M10 grade 8.8 bolt each.



Manufacturer: Siemens Healthcare GmbH **Test Location:** IABG mbH, Germany

Component: PC IRSmx4c Imaging System **Test Date:** January 2017

Model Number: 10890635 **Report Number:** TAF4-PB-17-033-V1

UUT Function: Imaging system PC

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
53	30.3	10.1	20.0	29.5	> 33.0	> 33.0

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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

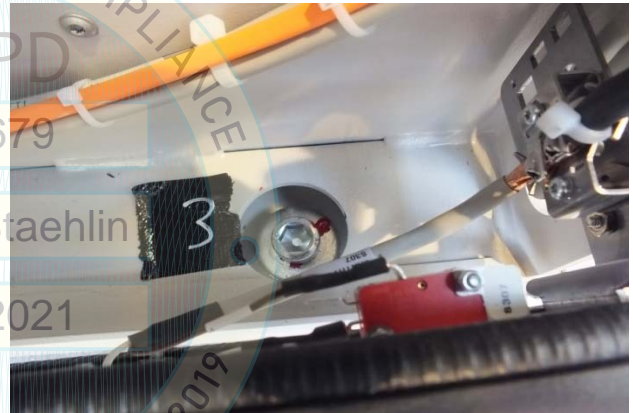
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_{w-1}

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



Mounting Details: Rigid floor mounted with (4) M16 bolts



Manufacturer: Siemens Healthcare GmbH	Test Location: IABG mbH, Germany
Component: SOMATOM Confidence Gantry	Test Date: October 2016
Model Number: 10590100	Report Number: TAF4-PB-16-370-V1
UUT Function: Continuous rotating x-ray to generate diagnostic imaging	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
4,523	93.7	36.8	78.0	11.7	15.0	> 33.0

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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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_{w-2}

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



Mounting Details: Rigid floor mounted with (4) M10 bolts



REVIEWED FOR CODE COMPLIANCE
OSP-0679
BY William Staehlin
DATE: 08/27/2021

Manufacturer: Siemens Healthcare GmbH	Test Location: IABG mbH, Germany
Component: PHS 1b Patient Table	Test Date: October 2016
Model Number: 10643655	Report Number: TAF4-PB-16-370-V1
UUT Function: Motorized patient table for moving patient through CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,220	29.5	96.3 – 159.3	19.7 – 36.2	11.6	5.8	11.5

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal operating position with a horizontal extension of 39.4" (135.7" length), vertical height of 36.2", and a total simulated patient weight of 374lbs.

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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

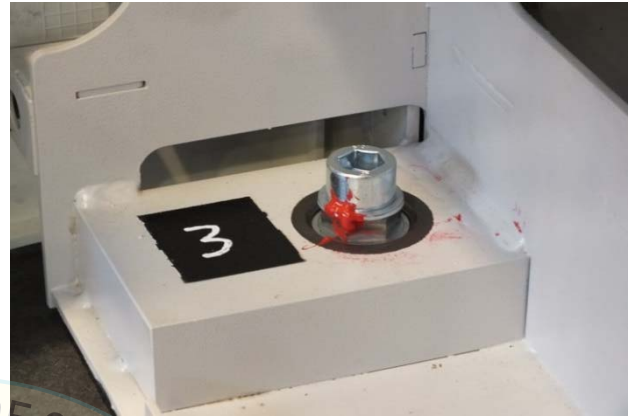
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_v-1

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



Mounting Details: Rigid floor mounted with (4) M16 bolts



Manufacturer: Siemens Healthcare GmbH

Test Location: IABG mbH, Germany

Component: SOMATOM Drive Gantry

Test Date: May 2016

Primary Model Number: 10430610

Report Number: TAF4-PB-16-266-V1

Secondary Model Number: 10431700

UUT Function: Continuous rotating x-ray to generate diagnostic imaging

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
5,672	94.5	48.0	78.4	11.5	23.7	> 33.0

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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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_v-3

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



Mounting Details: Rigid floor mounted with (4) M10 bolts



Manufacturer: Siemens Healthcare GmbH	Test Location: IABG mbH, Germany
Component: MPT-2n	Test Date: May 2016
Model Number: 11268202	Report Number: TAF4-PB-16-266-V1
UUT Function: Motorized patient table for moving patient through CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,483	29.5	96.3 – 175.0	21.6 – 36.2	11.6	4.0	15.7

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal operating position with a horizontal extension of 39.4" (135.7" length), vertical height of 36.2", and a total simulated patient weight of 308lbs.

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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

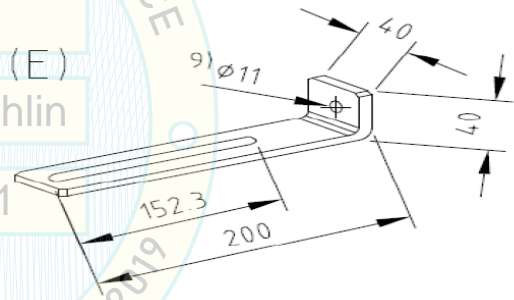
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_v-4

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



Mounting Details: Rigid wall mounted at top back side of unit with (2) M8 grade 8 bolts and rigid floor mounted with (4) M10 grade 8 bolts. Siemens wall mount brackets, shown below, bolt thru the long leg, at the beginning of the slot, to the UUT with a single M12 grade 8.8 bolt torqued at 50 ft-lbs.



Manufacturer: Siemens Healthcare GmbH	Test Location: IABG mbH, Germany
Component: Power Distribution Cabinet (PDC-A)	Test Date: May 2016
Model Number: 10662877	Report Number: TAF4-PB-16-266-V1

UUT Function: Power distribution to CT system

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,162	35.4	27.2	76.8	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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

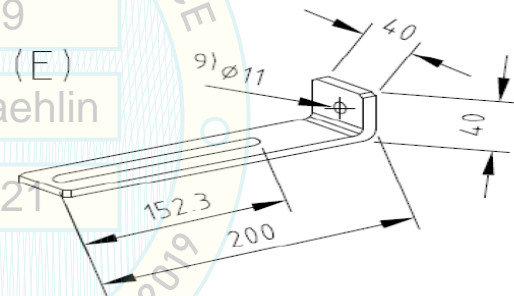
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT_v-5

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



Mounting Details: Rigid wall mounted at top back side of unit with (2) M8 grade 8 bolts and rigid floor mounted with (4) M10 grade 8 bolts. Siemens wall mount brackets, shown below, bolt thru the long leg, at the beginning of the slot, to the UUT with a single M12 grade 8.8 bolt torqued at 50 ft-lbs.



Manufacturer: Siemens Healthcare GmbH | **Test Location:** IABG mbH, Germany

Component: Power Distribution Cabinet (PDC-B) | **Test Date:** May 2016

Model Number: 10662878 | **Report Number:** TAF4-PB-16-266-V1

UUT Function: Power distribution to CT system

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
814	35.4	27.2	76.8	N/A	N/A	N/A

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S _{DS} (g)	z / h	I _p	A _{FLEX-H} (g)	A _{RIG-H} (g)	A _{FLEX-V} (g)	A _{RIG-V} (g)
CBC 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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_u-2

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



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



Manufacturer: Siemens Healthcare GmbH	Test Location: Environmental Test Laboratory
Component: PHS-5 Patient Table	Test Date: November 2014
Model Number: 10742323	Report Number: SQ35-1423-01
UUT Function: Motorized patient table for moving patient through CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,506	29.5	100.5 – 179.5	24.3 – 41.7	2.9	2.6	10.7

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal operating position with the table top extended, and a total simulated patient weight of 440lbs.

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 2019 / 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_u-4

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



Mounting Details: Rigid floor/wall mounted with (4) 5/16" bolts to wall fixture and (2) 1/2" bolts to floor
Rigid wall mounted at top back side of unit with (4) 5/16" grade 8 bolts to wall fixture and rigid floor mounted with 2 - 1/2" 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.



REVIEWED FOR CODE COMPLIANCE
OSP-0679
BY: William Staehlin
DATE: 08/27/2021
CALIFORNIA BUILDING CODE, 2019

Manufacturer: Siemens Healthcare GmbH **Test Location:** Environmental Test Laboratory

Component: Power Distribution Cabinet **Test Date:** November 2014

Model Number: 10757110 **Report Number:** SQ35-1423-01

UUT Function: Power distribution to CT system

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
2,027	47.2	29.5	75.2	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 _{RIX-H} (g)	A _{FLX-V} (g)	A _{RIX-V} (g)
CBC 2019 / 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_u-6

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



Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1” wide hand-tightened cam buckle strap (200lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) 3/8 grade 8 bolt each.



Manufacturer: Siemens Healthcare GmbH	Test Location: Environmental Test Laboratory
Component: PC IRSmx4a Imaging System	Test Date: November 2014
Model Number: 10742951	Report Number: SQ35-1423-01

UUT Function: Imaging system PC

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
86	12.2	27.0	19.7	17.5	14.6	> 33.0

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	SDS (g)	z / h	I _p	AFLX-H (g)	ARIG-H (g)	AFLX-V (g)	ARIG-V (g)
CBC 2019 / 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.