



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

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

OFFICE USE ONLY

APPLICATION #: OSP-0899

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Siemens Healthineers AG

Manufacturer's Technical Representative: Donal Medlar

Mailing Address: Siemensstr. 3, Forchheim Bayern, Forchheim 91301

Telephone: (49173) 976-4445

Email: don.medlar@siemens-healthineers.com

Product Information

Product Name: External Heat Exchanger

Product Model Number(s): See attachments

Product Category: Chillers

Product Sub-Category: Heat Exchangers

General Description: Heating exchange system for CT Gantries

Mounting Description: Base Mounted Rigid

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

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





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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: Stephen Roedling

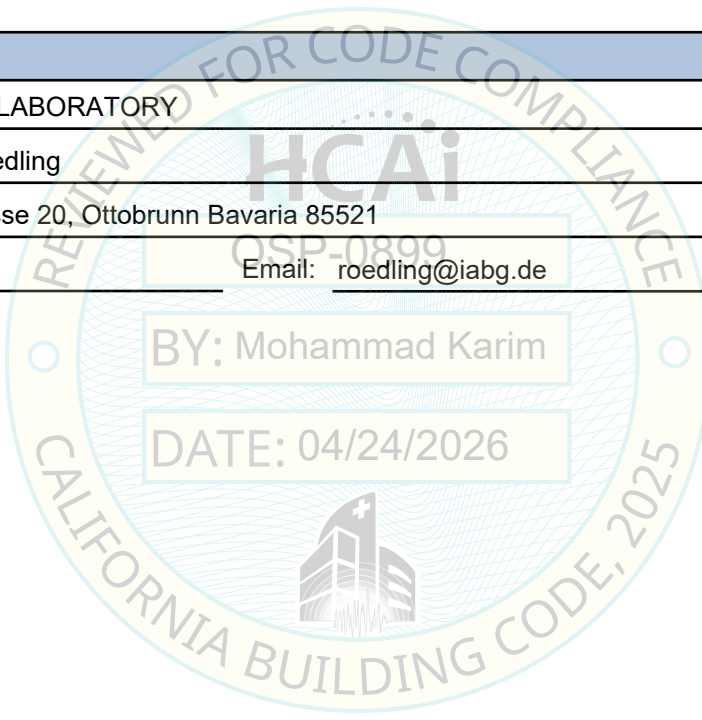
Mailing Address: Einsteinstrasse 20, Ottobrunn Bavaria 85521

Telephone: (49896) 088-2052

Email: roedling@iabg.de

BY: Mohammad Karim

DATE: 04/24/2026





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Seismic Parameters

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal	(A Flx-H), g=	<u>3.20</u>	(A Rig-H), g=	<u>2.15</u>
Vertical	(A Flx-V), g=	<u>1.68</u>	(A Rig-V), g=	<u>0.68</u>

SDS (Design spectral response acceleration at short period, g) = 2.5 @ z/h = 0; 2.0 @ z/h = 1

Hf (Force amplification height factor) = 1 @ z/h = 0; 3.5 @ z/h = 1

Ru (Structure ductility reduction factor) = 1 @ z/h = 0; 1.3 @ z/h = 1

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 0 and 1

HCAI Approval (For Office Use Only) - Approval Expires on 04/26/2032

Date: 4/24/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

Condition of Approval (if applicable): OSP-0899

BY: Mohammad Karim

DATE: 04/24/2026

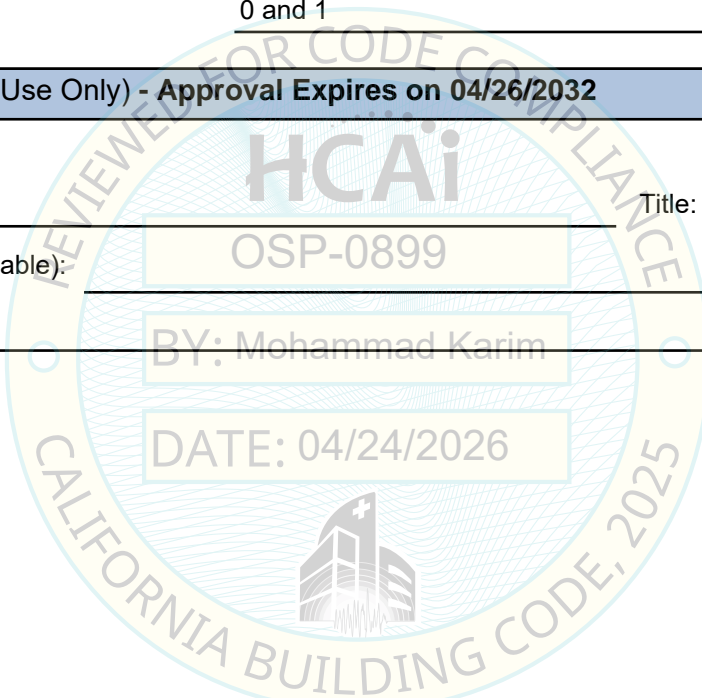


TABLE 1	SIEMENS HEALTHINEERS AG SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS	 WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING
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Manufacturer: Siemens Healthineers AG / Glen Dimplex Deutschland GmbH

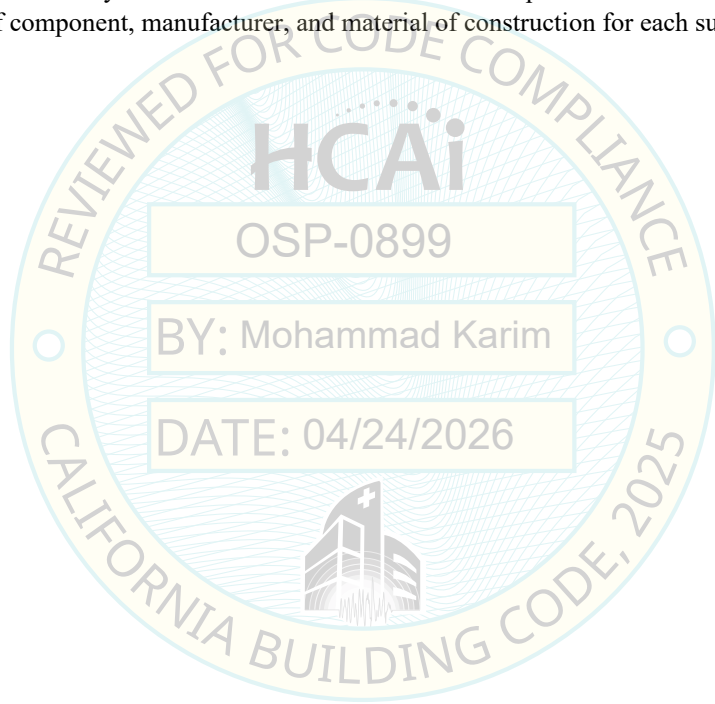
System Component	¹ Siemens Part Number	Dimensions (in)			Weight (lb)	Mounting	UUT
		Width	Depth	Height			

CT SYSTEM EXTERNAL HEAT EXCHANGER

Forerun Heat Exchanger Ext.	11771047	32.4	20.6	39.5	278	floor	UUT-2
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Notes:

¹ The heat exchanger is manufactured by Siemens Healthineers AG / Glen Dimplex Deutschland GmbH. The part number listed uniquely identifies the type of component, manufacturer, and material of construction for each sub-component within the tested units.



SEISMIC CERTIFICATION LIMITS

CODE	I _p	S _{DS} (g)	z / h	H _f	R _μ	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2025	1.5	2.0	1.0	3.5	1.3	3.20	2.15	1.34	0.54
		2.5	0	1.0	1.0	2.50	1.00	1.68	0.68

UUT-2

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



Mounting Details: Rigid floor mounted with (4) 1/2" grade 5 bolts



Manufacturer: Siemens Healthineers AG Glen Dimplex Deutschland GmbH	Test Location: IABG mbH, Germany
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Component: Forerun Heat Exchanger Ext.	Test Date: December 9, 2025
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Model Number: 11771047	Report Number: TA-B-007773_V1
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UUT Function: Cooling and heating system for CT gantries.

UUT Description: External heat exchanger for Siemens Healthcare CT systems.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
278	32.4	20.6	39.5	> 33	> 33	> 33

SEISMIC TEST PARAMETERS – ICC-ES AC 156-24

CODE	S _{DS} (g)	z / h	H _f	R _μ	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	2.0	1.0	3.5	1.3	1.5	3.20	2.15	-	-
	2.5	0	1.0	1.0	1.5	-	-	1.68	0.68

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.