



## CERTIFICATE OF COMPLIANCE

### SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS



Certification No.

# VMA-49934-01C (Revision 02)

Expiration Date: 12/31/2028

**Certification Parameters:**

The nonstructural products containing only non-active components, listed on this certificate are **CERTIFIED<sup>1</sup>** FOR SEISMIC APPLICATIONS in accordance with the following building code<sup>2</sup> releases.

**IBC 2012, 2009, 2006**

The following model designations, options, and accessories are included in this certification. Reference report number **VMA-49934-01** as issued by VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

**iGard; Grounding Resistors  
Standard HRG & Smart HRG**

The above referenced non-active components are **APPROVED** for seismic application when properly installed<sup>3</sup>, used as intended, and contains a Seismic Certification Label referencing this Certificate of Compliance<sup>4</sup>. Approval is limited by the tabulated values, grade, and roof-level installations as shown in the chart below. Equipment Importance Factor assigned is  $I_p=1.5$ . The equipment is qualified by ISO Accredited Product Certification Agency, VMC Group via structural analysis of worst-case representative sample of certified product.

<b>Certified Seismic Design Levels</b>			
<b>Certified IBC</b>	<b>Importance <math>I_p \leq 1.5</math> Soil Classes A-E Risk Categories I-IV Design Categories A-F</b>	<b><math>z/h = 1.0</math></b>	<b><math>z/h \leq 0.0</math></b>
		<b><math>S_{DS} \leq 2.50^* g</math></b>	<b><math>S_{DS} \leq 2.50^* g</math></b>

\*Per section 13.2.5 of ASCE7-10; by testing the horizontal accelerations to an  $S_{DS}=2.00g$  at  $z/h=1.0$  and testing the vertical accelerations to an  $S_{DS}=2.50g$ , all applications are acceptable for roof and grade installation where  $S_{DS} \leq 2.50g$ .

<b>Certified Seismic Installation Methods</b>	
<b>Directly to Rigid Wall</b>	<b>Directly to Non-Structural Wall</b>

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**Certified Product Table:**

Product Line	Model Number	Dimensions [ in ]			Weight [ lb ]
		Depth	Width	Height	
Standard HRG	PS-XXX-Y	9.25	20	24	80
	PS-XXX-Y-RM			34	120
	GS-XXX-Y			24	80
	GS-XXX-Y-RM			34	120
	GS/PS-XXX-Y			24	80
	GS/PS-XXX-Y-RM			34	120
	SL-XXX-Y			24	80
Smart HRG	SN4-X		30	32	135
	SN4-X		36		150
	SN6-X		30		135
	SN6-X		36		150

Group	Type	S <sub>DS</sub> (z/h=0)	S <sub>DS</sub> (z/h=1)	A <sub>Flex-H</sub>	A <sub>Rig-H</sub>	A <sub>Flex-V</sub>	A <sub>Rig-V</sub>	F <sub>p</sub> /W <sub>p</sub>
Seismic	AC156	2.0	2.5	3.2	2.4	1.67	0.67	5.63



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### Notes and Comments:

1. Worst case representative samples exhibiting least seismic capacity from all units listed herein was selected for structural analysis. Units were analyzed using seismic loading criteria for non-structural components as set forth in the ASCE 7 chapter 13. The analyzed units cited in this certification are a representative sample(s) of a contingent of models and based on the analysis of selected units. All other listed unit sizes are deemed structurally sound to resist mentioned seismic criteria. Although a seismically qualified unit inherently contains some wind resisting capacity, that capacity is undetermined and is excluded from this certification. Snow/Ice loads were not considered for this analysis.
2. The following building codes are addressed under this certification:
  - IBC 2012 – referencing ASCE7-10
  - IBC 2009 – referencing ASCE7-05
  - IBC 2006 – referencing ASCE7-05
3. Refer to the manufacturer supplied installation drawings for anchor requirements and mounting considerations for seismic applications. Required anchor locations, size, style, and load capacities (tension and shear) may be specified on the installation drawings or specified by a 3rd party. Mounting requirement details such as anchor brand, type, embedment depth, edge spacing, anchor-to-anchor spacing, concrete strength, special inspection, ceiling design, and attachment to non-building structures must be outlined and approved by the Engineer of Record for the project or building. Structural supports must also be seismically designed and approved by the project or building Structural Engineer of Record to withstand the seismic anchor loads as defined on the installation drawings. The installing contractor is responsible for observing the installation detailed in the seismic installation drawings and the proper installation of all anchors and mounting hardware.
4. For this certificate and certification to remain valid, this certificate must correspond to the "Seismic Certification Label" found affixed to the unit by the factory. The label ensures the manufacturer built the unit in conformance to the IBC seismic design criteria set forth by the Certified Seismic Qualification Agency, VMC Group, and meets the seismic design levels claimed by this certificate.
5. Where applicable, Mechanical, Electrical, and Plumbing connections to the equipment supported to units must be flexibly attached as to not transfer load through the connection. The structural integrity of any conduit, cable trays, piping, ductwork and/or flexible connections is the responsibility of others. This certification does not guarantee the unit will remain compliant to NEMA, IP, UL, or CSA standards after a seismic event.
6. This certificate applies to units manufactured at:  
7686 Bath Road, Mississauga, Ontario L4T 1L2
7. This project follows VMC Group's ISO-17065 Scheme for Product Certification of Nonstructural Components.

John P. Giuliano, PE  
President, The VMC Group



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