VMC GROUP
CONTROLLED ENVIRONMENT SOLUTIONS™

i-GARD
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CERTIFICATE OF COMPLIANCE
SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certification No.

VMA-47894-01C (Revision 5)

Expiration Date: 7/31/2026

Certification Parameters:

The nonstructural products (mechanical and/or electrical components) listed on this certificate are CERTIFIED[1] FOR SEISMIC APPLICATIONS in accordance with the following building code[2] releases.

IBC 2015, 2012, 2009, 2006

The following model designations, options, and accessories are included in this certification. Reference report number VMA-47894-01 as issued by The VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

i-Gard; Neutral Grounding Resistors
Various Models; 1-800A

The above referenced equipment is **APPROVED** for seismic application when properly installed[3], used as intended, and contains a Seismic Certification Label referencing this Certificate of Compliance[4]. As limited by the tabulated values, below grade, grade, and roof-level installations, installations in essential facilities, for life safety applications, and/or of equipment containing hazardous contents are permitted and included in this certification with an Equipment Importance Factor assigned as I_p=1.5. The equipment is qualified by successful seismic shake table testing at the nationally recognized University of California Berkeley Pacific Earthquake Engineering Research Center and Dynamic Certification Laboratories under the witness of the ISO Accredited Product Certification Agency, the VMC Group.

Certified Seismic Design Levels[8]			
Certified **IBC**	**Importance $I_p \leq 1.5$** Soil Classes A-E Risk Categories I-IV Design Categories A-F	z/h ≤ 1.0	z/h = 0.0
		$S_{DS} \leq 2.380$ g	$S_{DS} \leq 2.380$ g

The qualified seismic design level stated is the lowest for all series this certificate covers. For more information, see the certified product tables on page 2.

Certified Seismic Installation Methods	
Rigid Mounting From Unit Base To Rigid Structure	External Isolation Mounting From Unit Base To Rigid Structure

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Certified Product Table:

i-Gard Model Number	Current 'XX' [Amperes]	Construction Type	Voltage L/N [Volts]	Config. Type	Max Wegiht [lbs]
277-XX-C/CT	1, 2, 5, [10], (25)	2LV-1, [2LV-2], (KD Knock Down)	277	A, [A], (B)	175
347-XX-C/CT	1, 2, [15-25]	2LV-1, [KD Knock Down]	347	A, [B]	180
347-XX-10S	5, 15	2LV-1		A	40
347-XX-60148	5, [10]	2LV-1, [2LV-2]			
1390-XX-C	5	KD Knock Down	1390	B	350
1390-XX-10S	400				430
2400-XX-C/CT	1-4, 5-10, [25]	KD Knock Down, [HV Welded Frame]	2400	B, [C]	500
2400-XX-62558	100	KD Knock Down		B	580
2400-XX-62562	200, 400				350
2400-XX-62566	100, 300				
2400-XX-10S/CT	5-10, 25, 100-400, 800				430
2400-XX-60S/CT	50, [400]	KD Knock Down, [HV Welded Frame]		C	720
4160-XX-10S	15	KD Knock Down	4160	B	265
4160-XX-60S/CT	100-200	HV Welded Frame		C	720
8000-XX-62721	400		8000		
8000-XX-10S/CT	10-500				590
8000-XX-627[15],(17),|21|	[100], (200), |400|				720
OHMNI-[4],(6)PM-XX	5, 5RM, 10, 10RM	OHMNI	[277], (347)	D	100
14400-xx-10S/CT	50, 100, 200, 300, 400, 500	HV Welded Frame	14400	C	1630

Note: All Neutral Grounding Resistors NEMA (CSA) Rated 3R/4. Please contact Manufacturer for 'Config. Type' Description

Group	Type	Mounting	S_{DS} (z/h=0)	S_{DS} (z/h=1)	A_{Flex-H}	A_{Rig-H}	A_{Flex-V}	A_{Rig-V}	F_p/W_p
Seismic	AC156	Rigid	2.44	2.44	3.90	2.93	1.63	0.65	1.76
		Isolated	2.38	2.38	3.81	2.86	1.59	0.63	5.36

This certification includes the product and factory supplied accessories and options. The product and included accessories and options shall be a catalogue design and factory supplied. The product shall be installed and attached to the building structure per the manufacturer supplied seismic installation instructions. For a list of certified configurations and options please directly contact the manufacturer. This certification excludes all non-factory supplied accessories, including but not limited to enclosures, isolation/restraint devices, remote control panels, mounting brackets, and other electrical/mechanical components.

IBC CERTIFIED
VMC GROUP

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Notes & Comments:

1. All equipment listed herein successfully passed the seismic acceptance criteria for shake testing non-structural components and systems as set forth in the ICC AC-156. The Test Response Spectrum (TRS) enveloped the Required Response Spectrum (RRS) for all units tested. The tested units were representative sample(s) of a contingent of models and all remained captive and structurally sound after the seismic shake simulation. The units also remained functionally operational after the simulation testing as functional testing was completed by the equipment manufacturer before and after the seismic simulations. Although a seismic qualified unit inherently contains some wind resisting capacity, that capacity is undetermined and is excluded from this certification. Snow/Ice loads have been neglected and thus limit the unit to be installed both indoors (covered by an independent protective structure) and out of doors (exposed to accumulating snow/ice) for ground snow loads no greater than 30 psf for all applications.

2. The following building codes are addressed under this certification:
   IBC 2015 referencing ASCE7-10 and ICC-ES AC-156
   IBC 2012 referencing ASCE7-10 and ICC-ES AC-156
   IBC 2009 referencing ASCE7-05 and ICC-ES AC-156
   IBC 2006 referencing ASCE7-05 and ICC-ES AC-156

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, wall design, and attachment to non-building structures must be outlined and approved by the Engineer of Record for the project or building. Structural walls, structural floors, and housekeeping pads 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 ensuring 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, the VMC Group, and meets the seismic design levels claimed by this certificate.

5. Mechanical, Electrical, and Plumbing connections to the equipment 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 makes no statements of compliance in regards to NEMA, IP, UL, CSA, or other relevant standards after a seismic event. For compliance to other relevant standards, please contact the manufacturer.

6. This certificate applies to units manufactured at:
   7686 Bath Rd, Mississauga, ON L4T 1L2, Canada

7. This certification follows the VMC Group's ISO-17065 Scheme.

8. The qualified seismic design level stated is the lowest for all series this certificate covers. For more information, see the certified product tables on page 2.

John P. Giuliano, PE
President, VMC Group

IAS ACCREDITED Product Certification Agency

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