CERTIFICATE OF COMPLIANCE

SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certification No.

VMA-45894-11C (Revision 7)

Expiration Date: 3/31/2028

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 2024, 2021, 2018, 2015

The following model designations, options, and accessories are included in this certification. Reference report number VMA-45894-01 as issued by VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

TRIGA; Fire Alarm Control Panels
Various Series; Various Ratings

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 similarity to Silent Knight product and Silent Knight product's 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			
Certified **IBC**	**Importance $I_p \leq 1.5$** Soil Classes A-E Risk Categories I-IV Design Categories A-F	$z/h \leq 1.0$	$z/h = 0.0$
		$S_{DS} \leq 2.000$ g	$S_{DS} \leq 2.500$ g

Certified Seismic Installation Methods
Directly To Structural Wall

CERTIFICATE OF COMPLIANCE

SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certified Product Table:

Model	Description
TR-50W[1], TR-125W[1]	ECS 50 Watts Amplifier 220vac 50/60 Hz, 125 Watt High Voltage Amplifier, 220vac 50/60 Hz
TR-R2100R[2], TR-R2100B[2], TR-2100R[2], TR-2100B[2], TR-2100ECSR[2], TR-2100ECSB[2]	2100 Point Addressable Fire Panel, 2100 Point Integrated Fire Alarm & Emergency Communication System
TR-RPS1[2]	High Voltage (240V) Intelligent Distributed Power Module
TR-75B[2], TR-75R[2], TR300UR[2], TR-300UB[2], TR-1100U[2], TR-1100UB[2]	Intelligent Fire Control Panel
TR-300UECSR[2], TR-300ECSB[2], TR-1100UECS[2], TR-1100UECSB[2]	Scalable Analog/Addressable Fire alarm Control System

Required Seismic Kits: [1]SEISKIT-MULTI-1, [2]SK-SCK

Group	Type	S_{DS} (z/h=0)	S_{DS} (z/h=1)	A_{Flex-H}	A_{Rig-H}	A_{Flex-V}	A_{Rig-V}	(ASCE7-16) F_p/W_p	(ASCE7-22) F_p/W_p	Installation Methods
Seismic	AC156	2.5	2	3.2	2.4	1.67	0.67	1.5	2.26	Directly to Structural Wall

This certification includes the unit and factory supplied accessories and options. The unit and included accessories and options shall be a catalogue design and factory supplies. The unit shall be installed and attached to the building structure per the manufacturer supplied seismic installation instructions. This certification excludes all non-factory supplied accessories, including but not limited to mounting brackets and the integrity of the wall or other supporting structure to which the unit is being attached.

VMA-45894-11C (Revision 7)
Issue Date: March 26, 2021
Revision Date: February 19, 2026
Expiration Date: March 31, 2028

CERTIFICATE OF COMPLIANCE
SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

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 2024 referencing ASCE7-22 and ICC-ES AC-156
   IBC 2021 referencing ASCE7-16 and ICC-ES AC-156
   IBC 2018 referencing ASCE7-16 and ICC-ES AC-156
   IBC 2015 referencing ASCE7-10 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:
   12 Clintonville Road, Northford, CT 06472

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

John P. Giuliano, PE
President, VMC Group

VMA-45894-11C (Revision 7)
Issue Date: March 26, 2021
Revision Date: February 19, 2026
Expiration Date: March 31, 2028