THE VMC GROUP
The Power of Together™

NOTIFIER® by Honeywell

CERTIFICATE OF COMPLIANCE

SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certification No.

VMA-45894-01C (REVISION 3)

Expiration Date: 11/30/2019

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 2003, IBC 2006, IBC 2009, IBC 2012, IBC 2015

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

NOTIFIER Fire Alarm Control Panels

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 successful seismic shake table testing at the nationally recognized University of California Berkley Pacific Earthquake Engineering Research Center under the witness of the ISO Accredited Product Certification Agency, The VMC Group.

Certified Seismic Design Levels

Certified **IBC**	**Importance $I_P \le 1.5$** Soil Classes A-E Risk Categories I-IV Design Categories A-F	**$S_{DS} \le 2.500$ g**	**$S_{DS} \le 2.000$ g**
		z/h = 0.0	**z/h ≤ 1.0**
		Horizontal Design[5] $\frac{F_p}{W_p} = 0.4 S_{DS} I_p \frac{a_p}{R_p}\left(1 + 2\frac{z}{h}\right) \le$ **1.500 g**	
Test Datum **AC156**	ISO 17025 Laboratory Pre/Post-Shake Functionality Tri-axial, 5% Damping SRS	$A_{FLEX-H} \le 3.200$ g	$A_{FLEX-V} \le 1.667$ g
		$A_{RIG-H} \le 2.400$ g	$A_{RIG-V} \le 0.667$ g
		$ZPA_H \le 2.160$ g	$ZPA_V \le 0.600$ g

Certified Seismic Installation Methods

Directly to rigid wall

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Certified Product Table:

Model Number	Description
NFS2-3030	NFS2-3030 Intelligent Fire Alarm Control Panel
NFS2-640	NFS2-640 Intelligent Fire Alarm Control Panel
NFS-320	NFS-320 Intelligent Fire Alarm Control Panel
NFS-320SYS	NFS-320SYS Intelligent Fire Alarm Control Panel
NCA-2	Network Control Annunciator
FirstVision	Interactive Firefighter Display
DVC Series	Digital Voice Command Products
XP Series	Transponder Module
ACPS-610	Addressable Charger Power Supply
AMPS-24	Addressable Charger Power Supply
CHG-120	Charger Power Supply
APS2-6R	Auxiliary Power Supply
BB-17/BB-26/BB-100/BB-200	Back Up Battery Box
BB-25	Auxiliary Equipment Box
NFS-LBB	Back Up Battery Box
RP-2001	Deluge/Preaction control Panel
RP-2002	Agent Release Control Panel
NFC-50/100	First Command – Emergency Command Center Panel
NFC-FFT	First Command – Firefighter Telephone Panel
NFC-LOC	First Command – Emergency Command Center Panel - LOC
NFC-RPU	First Command Remote Paging Unit
NFC-RM	First Command Remote Microphone
NFW2-100	Fire Warden – 198-Point Addressable Fire Alarm Control Panel
NFW-50	Fire Warden – 50-Point Addressable Fire Alarm Control Panel
SFP-5UD	5-Zone Fire Alarm Control Panel
SFP-10UD	10-Zone Fire Alarm Control Panel
SFP-2402	2-Zone Fire Alarm Control Panel
SFP-2404	4-Zone Fire Alarm Control Panel
FCPS-24S6	6-amp Remote Power Supply
FCPS-24S8	8-amp remote Power Supply

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Notes and 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 units cited in this certification 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 AC-156
   IBC 2012 – referencing ASCE7-10 and ICC AC-156
   IBC 2009 – referencing ASCE7-05 and ICC AC-156
   IBC 2006 – referencing ASCE7-05 and ICC AC-156
   IBC 2003 – referencing ASCE7-02 and ICC AC-156
   IBC 2000 – referencing ASCE7-98 and ICC 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) are specified on the installation drawings. 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 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, 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 does not guarantee the equipment will remain compliant to UL or NEMA standards after a seismic event.

6. This certificate applies to units manufactured at:

   Honeywell, 12 Clintonville Rd, Northford, CT 06472

7. This project follows The VMC Group’s ISO-17065 Scheme for Product Certification of Nonstructural Components.

John P. Giuliano, PE
President, The VMC Group

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