

#### **TEST & MEASUREMENT**



Learn How to Acquire Your VMA Number

# **VMC Group Certification**

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Pre-approval of Special Seismic Certification and Wind Resistant Design Certification is a certification program for equipment manufacturers.

# **VMC Group Certification**



VMA Certification (VMAs) are limited to:

 Components that require Special Seismic Certification in accordance with ICC-ES AC156,

#### OR

 Components that require Special Seismic Certification in accordance with International Building Code (IBC) chapters 16 & 17 for ASCE7 chapter 13,

#### OR

 Components that require Wind Resistant Design Certification in accordance with IBC chapter 16 for ASCE7 section for ASCE7 chapter 29.

# **Certification Definition**



Special Seismic Certification is "A Certificate of Compliance" provided by manufacturers offering assurance that after a design earthquake, the designated seismic system shall maintain:

- O Structural Integrity
- Functionality

Wind Resistant Design Certification is "A Certificate of Compliance" provided by manufacturers offering assurance that after a design wind loading, the designated main wind force resisting system shall maintain:

Structural Integrity

# Minimum Requirements for Certification



For a product line with similar structural configuration VMC Group requires at a minimum:

- Ounit Under Test (UUT) or Unit Under Analysis (UUA) is selected as a representative sample with the least capacity (ICC-ES AC156 4.5.1 or TAS 201,202, 203).
- Group models are selected by "similarity of major structural configuration". Typically 1 UUT/UUA or the largest per group,

#### OR

 Testing or analysis of at least two units (typically the smallest & the largest units).

#### Either rational requires,

 Comparative or analytical verification of similarities for interpolated of extrapolated units.



## **Testing or Analysis of Two Units Required for Each Structural Configuration**

- If the units are to be qualified for different support, mounting, or attachment conditions,
  - With and without vibration isolators (internal and external isolators are NOT equivalent),

#### And

- Different mounting types, such as well mounted vs. floor mounted, etc.
- Testing or analysis is required for,
  - The "worst-case" of each installation configuration,

#### OR

 Testing or analysis of two units will be required for each anchorage or mounting configuration.

## **Testing or Analysis of Units Required for Each Material Construction**



- If the units are made of different material (e.g. carbon steel vs. stainless steel, etc.)
  - UUT/UUA shall be selected with the material providing the least capacity; alternative materials <u>may</u> be certified by comparison rationale,

#### OR

- **Test of two units** shall be required for **each material**.
- At least one test or analysis is required for non-active components or structures for each material.



## Test of Two Units Required for Each Sub-Component Manufacturer

- If sub-components are made by different manufacturers:
  - A shake table test for each manufacturer is required for active components. UUT selected as a representative sample with least seismic capacity (ICC-ES AC156 4.5.1),

#### OR

• Test of two units shall be required for each manufacturer.

Special Seismic Certification pre-approval is valid for components with design, construction, and quality control equivalent to units tested.



## Simultaneous Testing of Multiple Units on the Shake Table is Permitted

Multiple units can be tested on a single shake table simultaneously provided the table is capable of achieving the Required Response Spectra (RRS) with the total payload.



# **Test Facility Requirements**



Testing laboratory shall have ISO-17025 accreditation,
 OR

Testing shall be under the responsible charge of an independent licensed engineer.

# **Test Report Requirements**



Test reports shall be reviewed and accepted by an independent, licensed structural engineer, unless prepared by one.



# An Initial Meeting with VMC Group is Recommended

VMC Group strongly recommends holding an in-person engineering review meeting with the manufacturer's design team in order to define:

Tailored project plan

• Project path

Seismic or Wind design level

• Product scope

Analysis scope

Testing scope

o Mounting/attachment scope

• Roles and responsibilities

Success criteria



# What is the Acceptance Criteria Following Testing?

- Post test acceptance criteria for Special Seismic Certification shall be as required by ICC-ES AC156:
  - Structural integrity of components, supports, and attachments shall be maintained.
  - Functionality of components shall be maintained equivalent to preshake table functionality test.
  - Functionality test shall be similar to the manufacturer's typical pre-shipment performance tests.
- Post test acceptance criteria for Wind Resistant Design Certification shall be as required by TAS 201, 202, and 203:
  - Structural integrity of components, supports, and attachments shall be maintained.
  - Components meet the requirements of Florida Building Code (FBC) Section 1626, 1619, and 1606 respectively.



# Inspections, Material Change, and Maintaining Certification

- VMA Approval is maintained based on all the following:
  - Production availability of the approved product design is current.
  - The continued use of the accepted quality assurance procedures.
  - Compliance with the terms stipulated in the approval agreement.
  - Successful re-examination of production samples to ensure conformity to approval requirements.
  - Satisfactory completion of engineering and quality assurance inspections.

# VMA Numbers are Nullified When:



- VMA approval is deemed nullified or invalid if any of the following occurs:
  - Design, construction, or quality control/quality assurance methods are materially altered as defined in the VMA 1826 and VMA 1825.
  - Strength, stiffness, size, weight, materials, support, orientation or manufacturer are changed/altered so the product attributes are no longer equivalent to what was approved in the VMA
  - Inappropriate usage of approved VMA approval certification marks.
  - When a certificate expires and is non renewed.
  - Failure to complete the required engineering and quality assurance inspections.

# **VMC Submittal Requirements**



Completed application with signature attached.

- Website listing fee of \$5,000 (per VMA#) payable to "VMC Group":
   Application review, website listing fees, and renewal fees are non-refundable.
- Onsite Inspection:
  - Travel expenses for hotel, airfare, meals, transportation, etc. to and from each manufacturing facility to conduct inspection are at an additional cost.
- Completed test reports in electronic format that satisfy the requirements of ICC-ES AC156, TAS 201, TAS 202, or TAS 203 where required
- Verification of similarities for interpolated/extrapolated units in the form of manufacturer's catalog and/or schematic cut sheets

All documents shall be received electronically by VMC Group.

# **Contacting VMC Group**



Please contact VMC Group for more information about obtaining a VMA number at <u>info@ibcapproval.com</u>.



## Can active mechanical and electrical equipment get a VMA by analysis?

#### No.

- Active and energized equipment/components shall be certified exclusively on the basis of shake table testing.
- Only connecting elements, attachments, and supports can be justified by supporting analysis.

# **Can I get a VMA number by analysis or experience data?**



- Yes, if the VMA Number is for Wind Resistant Design Certification.
  - For Wind Resistant Design Certification, a VMA numbers is issued based on successful analysis.
- **No,** if the VMA Number is for Special Seismic Certification.
  - For Special Seismic Certification, a VMA Number is issued based on successful shake testing.



### **Can I get a VMA number by using shake test data from another organization?**

Yes.

- Testing done by others shall be submitted for review and acceptance by VMC Group engineering department.
- Additional fees may apply.



# What R<sub>P</sub> value can be used for Special Seismic Certification?

- $R_P/I_P = 1.0$  for Special Seismic Certification by testing in accordance with the ICC-ES AC156.
- R<sub>P</sub> = 1.0 & I<sub>P</sub> = 1.5 shall be used for analysis part of the component if Special Seismic Certification, since functionality can't be verified by analysis.
- ASCE7 does not provide R<sub>P</sub> and a<sub>P</sub> values for Special Seismic Certification.
- •R<sub>P</sub> and a<sub>P</sub> values in ASCE7 can be used for design of supports and attachments.



# What test protocol should be used for shake table testing?

- ICC-ES AC156; Acceptance criteria for seismic certification by shake table testing of non-structural components (effective October 2010 and editorially revised May 2015).
- Where normal operating conditions of equipment involve variation of contents (e.g. empty and full of operating fluid, etc.) or configuration, each operating condition or configuration shall be simulated during the tests.
- If uni-axial or bi-axial tests are used for certification, a test at 45- degrees to two horizontal orthogonal directions shall be required, in addition to tests in two horizontal and vertical directions.

#### Can a test component with rigid and isolate supports justify installation with intermediate support conditions?



Yes, provided mounting configurations (e.g. installation is wall mounted, etc.) are similar and the only difference is attachments.



### Are tests in accordance with ICC-ES AC156 by non-US testing facilities acceptable?

**Yes**, provided:

- o Test facility is ISO 17025 accredited
- Test report is available in English
- Test report is prepared under the responsible charge of a US licensed structural engineer

# What systems/components require certification for buildings?



# What components are exempt from certification for buildings?



- Equipment and components weighing no more than 20 lbs. supported directly on structures ( and not mounted on other equipment or components).
- Moveable (mobile) and temporary equipment / components, which are not anchored to a structure or permanently attached to the building utility services; such as electricity, gas, or water.
- Pipes, ducts, conduits, and cable trays, excluding inline equipment and components.
- Underground tanks.
- Electrical motors and pumps no more than 10hp that are rigidly supported directly on a structure.



#### Does a small amount of hazardous content in a component trigger certification requirements for buildings?

#### No.

 Special Seismic Certification is required for components when the maximum allowable quantity of hazardous materials per control area as specified in the IBC 2018 Section 414 are exceeded.



# Do redundant or optional equipment require certification?

#### Yes.

- All active/energized components require Special Seismic Certification even if they are considered redundant or optional.
- Redundancy and options provided only because they are considered necessary/required. Optional equipment may also have an effect on the functionality of the basic equipment.
- Consequential damage due to failure or redundant or optional components may cause failure of essential components.

# Can the supports and attachment be substituted for equipment with a VMA number?



- Similar installation configurations (e.g. support mounting, attachment, orientation, etc.).
- Equivalent strength and stiffness to those tested & approved.
- Been tested to obtain quoted allowables.



# What does the PCA inspector verify for certification?

Inspector shall verify:

o Label conformance with the certificate of compliance.

 Anchorage or mounting for conformance with the certificate of compliance and construction documents.



# Can a single product be certified by one test or analysis only?

### **Yes**, provided:

- The manufacturing process is ISO 9001 certified.
- A single product (and not a product line with more than one product with variations) is certified.
- Variations, if any, are limited to software and color/branding.

# How much change can be made before the VMA becomes invalid?



- Changes that will nullify the VMA:
  - Materially altering design, construction, or quality control/quality assurance methods.
  - Change/alteration to the strength, stiffness, size, weight, materials, supports, orientation, or manufacturer rendering the product no longer equivalent to what was approved in the VMA.



# Where do I find a VMA Application Form?

The VMC application form is available at www.ibcapproval.com.



### Can multiple products be submitted through a single VMA Application?

No

• Each VMA number is for a single family of products.

# Will VMC Group distribute approved VMA numbers?



#### Yes.

 All approved VMAs will be posted on the publically available listing at <u>www.ibcapproval.com</u>



### Sample Certificate of Compliance for Components with VMAs per VMA 1826

SEISMIC DI	C GROUP ower of together CERTIFICATE OF COM ESIGN OF NONSTRUCTURAL COM fication No. VMA-50100-01C	YOUR LOGO HERE	YOUR LOGO HERE
Vet CRCUP  Certification Parameters: The nonstructural products (mech accordance with the following bui The following model designations by The VMC Group for a complete The above referenced equipment (certification Label referencing thi installations in essential facilities, this certification with an Equipment	hanical and/or electrical components) listed on this of liding code <sup>3</sup> releases. IBC 2012, 2015 s, options, and accessories are included in this certifi- list of certified models, included accessories/option Kohler; Diesel Gensets BrandPower; 2MW-4MW is APPROVED for seismic application when properly a certificate of compliance <sup>4</sup> . As limited by the tabut, for life astey applications, and/or of equipment co at Importance Factor assigned as (=1.5. The equip).	Expiration Date: 5/1/2019 certificate are CERTIFIED <sup>1</sup> FOR SEISMIC APPLICATIONS in installed <sup>1</sup> , used as intended, and contains a Seismic tativalee <sup>1</sup> , used as intended, and contains a Seismic tativalee <sup>1</sup> , used as intended, and contains a Seismic tativalee <sup>1</sup> , used as intended, and contains a distance mating used by successful examic shake table testing	Seismic Certification Label International Building Code Reference Certificate of Compliance: VMA-########C Product Type: Model Number:
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	Contified Colomia Installation	Matheda	
Direct	tly To Floor	Directly To Non-Structural Wall/Enclosure	
HEADQUARTERS 113 Main Street Bloomingdale, NJ 07403 Phone, 973 858 90 Tol, Free 8005858 90 Tol, Free 800582400 Fax, 973 492 8430	CALIFORNIA 180 Promerude Circle 5uite 300 Socramento, CA 95834 Phone: 916.654.7771 Fax: 713.486.3551	Park Drive HI SOOS	



### Sample Certificate of Compliance for Components with VMAs per VMA 1825

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Certification Parameters		0	
The nonstructural products list releases.	ed on this certificate are CERTIFIED FOR WIND APPLICAT	TONS in accordance with the fo	billowing building code <sup>1</sup>
	IBC 2012, 2015		
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