



VMC GROUP
THE POWER OF TOGETHER™



CERTIFICATE OF COMPLIANCE
WIND DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS



Certification No.

VMA-50633-01 C (REVISION 02)

Expiration Date: 4/30/2023

Certification Parameters:

The nonstructural products listed on this certificate are CERTIFIED FOR Wind APPLICATIONS in accordance with the following building code¹ releases.

IBC 2009, IBC 2012, IBC 2015, IBC 2018

The following model designations, options, and accessories are included in this certification. Reference report number **VMA-50633-01** as issued by VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

CAT® DG Series Gas Gensets

The above referenced equipment is **APPROVED** for wind application when properly installed², used as intended, and contains a Wind Certification Label referencing this Certificate of Compliance³. 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 $I_p=1.15$.

Certified Wind Design Levels

Certified IBC 2018	Importance $I_p \leq 1.15$ Exposure Categories A-D Risk Categories I-IV	V ≤ 123 mph		V ≤ 109 mph	
		V ≤ 55 m/s		V ≤ 49 m/s	
		z ≤ 15 ft		z ≤ 500 ft	
		z ≤ 5 m		z ≤ 152 m	
		Pressure Basis ⁴	$\frac{F_h}{A_f} = q_z G C_f =$	64.0 lbs/ft² 3.20 kPa	

Certified Wind Installation Methods

Rigid mounting from unit base to rigid structure



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Certified Product Table:

Model	Type	Material	Wind Velocity z ≤ 15 ft. Exposure B			Wind Velocity z ≤ 15 ft. Exposure C		
			ASCE 7-16	ASCE 7-10	ASCE 7-05	ASCE 7-16	ASCE 7-10	ASCE 7-05
DG30	Weather Protective with and without Window	Steel	165 mph	165 mph	116 mph	135 mph	135 mph	95 mph
	Sound Attenuated Level 1	Steel						
	Sound Attenuated Level 2	Steel						
DG50 / DG60 / DG80	Weather Protective with and without Window	Steel	183 mph	183 mph	147 mph	150 mph	150 mph	120 mph
	Sound Attenuated Level 1	Steel						
	Sound Attenuated Level 2	Steel						
DG100 / DG125 / DG150	Weather Protective with and without Window	Steel	183 mph	183 mph	147 mph	150 mph	150 mph	120 mph
	Sound Attenuated Level 1	Steel						
	Sound Attenuated Level 2	Steel						

Level Comparison Table:

DG30 Enclosure

IBC		2018			2015, 2012			2009, 2006		
ASCE		7-16			7-10			7-05		
Exposure Category		B	C	D	B	C	D	B	C	D
Velocity ⁵ (mph)	z ≤ 15 ft	165	135	123	165	135	123	116	95	86
	z ≤ 500 ft	131	117	109	131	117	109	96	90	86

DG50 / DG60 / DG80 Enclosure and DG100 / DG125 / DG150 Enclosure

IBC		2018			2015, 2012			2009, 2006		
ASCE		7-16			7-10			7-05		
Exposure Category		B	C	D	B	C	D	B	C	D
Velocity ⁵ (mph)	z ≤ 15 ft	183	150	136	183	150	136	147	120	109
	z ≤ 500 ft	145	130	121	145	130	121	122	115	109



VMA-50633-01C (Revision 2)
Issue Date: May 13, 2016
Revisions Date: April 29, 2020
Expiration Date: April 30, 2023



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CERTIFICATE OF COMPLIANCE WIND DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Notes and Comments:

- The following building codes are addressed under this certification:
 - ASCE 7-05 - Minimum Design Loads for Buildings and Other Structures
 - ASCE 7-10 - Minimum Design Loads for Buildings and Other Structures
 - ASCE 7-16 - Minimum Design Loads for Buildings and Other Structures
 - IBC 2009 – referencing ASCE 7-05
 - IBC 2012 – referencing ASCE 7-10
 - IBC 2015 – referencing ASCE 7-10
 - IBC 2018 – referencing ASCE 7-16
- Refer to the manufacturer supplied installation drawings for anchor requirements and mounting considerations for wind 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 sufficiently designed and approved by the project or building Structural Engineer of Record to withstand the wind anchor loads as defined on the installation drawings. The installing contractor is responsible for observing the installation detailed in the wind installation drawings and the proper installation of all anchors and mounting hardware.
- For this certificate to remain valid, it must correspond to the “Wind Certification Label” found affixed to the unit by the factory. The label ensures the manufacturer built the unit in conformance to the IBC wind design criteria set forth by the Product Certification Agency, The VMC Group, and meets the wind design levels claimed by this certificate.
- The qualified wind design pressure stated is for the horizontal wind pressure for applications utilizing ASCE 7-10, for more detailed ranges of qualified wind design levels, see the report cited on Page 1.
- Velocities were derived from the design pressure resulting from the design velocity (highlighted in yellow).
- 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 wind action.
- This certificate applies to units manufactured at 1720 West Kingsbury Street, Seguin, TX 78155

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VMA-50633-01C (Revision 2)
Issue Date: May 26, 2016
Revisions Date: April 29, 2020
Expiration Date: April 30, 2023

