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CATERPILLAR®

CERTIFICATE OF COMPLIANCE

WIND RESISTANT DESIGN CERTIFICATION OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certification No.

VMA-50365-02C (Revision 6)

Expiration Date: 12/31/2024

Certification Parameters:

The nonstructural products listed on this certificate are CERTIFIED FOR WIND APPLICATIONS in accordance with the following building code[1] releases.

IBC 2009, 2012, 2015, 2018

The following model designations, options, and accessories are included in this certification. Reference report number **VMA-50365-02** as issued by VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

CAT C Series Diesel Fuel Generator Set Enclosures

The above referenced equipment is **APPROVED** for wind application when properly installed[2], used as intended, and contains a Wind Certification Label referencing this Certificate of Compliance[3]. As limited by the tabulated values, installations in essential facilities, for life safety applications, and/or of equipment containing hazardous contents are permitted and included in this certification.

Certified Wind Design Levels				
Certified **IBC 2018**	**Importance IP ≤ 1.15** Exposure Categories B-D Risk Categories I-IV	**V ≤ 112 mph** V ≤ 50 m/s		**V ≤ 82 mph** V ≤ 37 m/s
		z ≤ 15 ft z ≤ 5 m		**z ≤ 500 ft** z ≤ 152 m
		Pressure Basis[4]	$\frac{F_h}{A_f} = q_z G C_f =$	**53.03 lbs/ft²** 2.65 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			$\frac{F_h}{A_f}$ [psf]
			ASCE 7-16	ASCE 7-10	ASCE 7-05	ASCE 7-16	ASCE 7-10	ASCE 7-05	
C2.2	Sound Attenuated Level 1	Steel	183 mph	183 mph	240 mph	150 mph	150 mph	197 mph	78.92
C4.4	Weather Protective	Steel							
	Sound Attenuated Level 1	Steel							
	Sound Attenuated Level 2	Steel							
	Sound Attenuated Level 2	Aluminum							
C6.6	Weather Protective	Steel							
	Sound Attenuated Level 1	Steel							
	Sound Attenuated Level 2	Steel							
	Sound Attenuated Level 2	Aluminum							
C7.1	Weather Protective	Steel							
	Sound Attenuated Level 1	Steel							
	Sound Attenuated Level 2	Steel							
	Sound Attenuated Level 2	Aluminum							
C9	Weather Protective	Steel	150 mph	150 mph	197 mph	123 mph	123 mph	161 mph	53.03
	Sound Attenuated Level 1	Steel							
	Sound Attenuated Level 2	Steel							
	Sound Attenuated Level 2	Aluminum							
C13	Weather Protective	Steel							
	Sound Attenuated Level 1	Steel							
	Sound Attenuated Level 1	Aluminum							
	Sound Attenuated Level 2	Steel							
C15	Weather Protective	Steel							
	Sound Attenuated Level 1	Steel							
	Sound Attenuated Level 1	Aluminum							
	Sound Attenuated Level 2	Steel							
C18	Weather Protective	Steel							
	Sound Attenuated Level 1	Steel							
	Sound Attenuated Level 1	Aluminum							
C18 Tier 4F	Sound Attenuated Level 1	Steel							
C18 (650-750kW)	Sound Attenuated Level 1	Steel							
	Sound Attenuated Level 1	Aluminum							
	Cold Weather	Steel							
	Cold Weather	Aluminum							

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Level Comparison Table:

C2.2, C4.4, C6.6 & C7.1 Gensets

IBC		2018			2015, 2012			2009		
ASCE		7-16			7-10			7-05		
Exposure Catergory		B	C	D	B	C	D	B	C	D
Velocity[5] (mph)	z ≤ 15 ft	183	150	136	183	150	136	240	197	179
	z ≤ 500 ft	111	104	100	145	136	132	145	136	132

C9, C13, C15, C18, & C18PD Gensets

IBC		2018			2015, 2012			2009		
ASCE		7-16			7-10			7-05		
Exposure Catergory		B	C	D	B	C	D	B	C	D
Velocity[5] (mph)	z ≤ 15 ft	150	123	112	150	123	112	197	161	146
	z ≤ 500 ft	91	85	82	119	112	108	119	112	108

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Notes and Comments:

1. 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

2. 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.

3. 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.

4. 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, sees the report cited on Page 1. This wind design pressure utilizes LRFD load combinations.

5. Design velocity (highlighted in yellow) was chosen based on the corresponding ASCE 7 wind map. Other velocities were derived from the design pressure resulting from the design velocity.

6. 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.

7. This certificate applies to units manufactured at:
   1720 West Kingsbury Street, Seguin, TX 78155
   Rodovia Luiz de Queiorz-KM 157 CEP 13420-900, Piracicaba/SP-Brazil

John P. Giuliano, PE
President, The VMC Group

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