



CERTIFICATE OF COMPLIANCE

SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS



Certification No.

VMA-53955-01C (Revision 01)

Expiration Date: 04/30/2027

Certification Parameters:

The nonstructural products listed on this certificate are CERTIFIED¹ FOR SEISMIC APPLICATIONS in accordance with the following building code³ releases.

IBC 2018, 2015

The following model designations, options, and accessories are included in this certification. Reference report number **VMA-53955-01** as issued by The VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

DIVERSITECH; QUICK SLING SUPERSTANDS Model: QSS Series

The above referenced equipment is **APPROVED** for seismic application when properly installed⁴, used as intended, and references this Certificate of Compliance. Approval is limited by the tabulated values and for below grade, grade, and roof-level installations as shown in the chart below. Equipment Importance Factor assigned is $I_p=1.0$. The equipment is qualified by finite element analysis of worst-case representative sample of certified product, by the VMC Group.

Certified Seismic Design Levels				
Certified IBC	Importance $I_p \leq 1.0$ Soil Classes A-E Risk Categories I-IV Design Categories A-F	12" & 18" Stands	$z/h = 1.0$	$z/h \leq 0.0$
			$S_{DS} \leq 2.3 \text{ g}$	$S_{DS} \leq 2.3 \text{ g}$
Certified IBC	Importance $I_p \leq 1.0$ Soil Classes A-E Risk Categories I-IV Design Categories A-F	24" Stands	$z/h = 1.0$	$z/h \leq 0.0$
			$S_{DS} \leq 1.76 \text{ g}$	$S_{DS} \leq 1.76 \text{ g}$

Certified Seismic Installation Methods

Rigid mounting from unit base to rigid structure

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Certified Product Table:

Model	Max. Length [in.]	Max. Height [in.]	Max. Width [in.]	Max. Weight [lbs]	Max. Supported Equip. Weight [lbs]
QSSB48	48	27	56	102	3056
QSSB48				102	
QSSB74	74			117	
QSSB48+QSSB48EXT	96			209	
QSSB48+QSSB74EXT	122			185	
QSSB48+QSSB48EXT	96			209	
QSSB48+QSSB74EXT	122			185	
QSSB74+QSSB74EXT	148			200	
QSSB74+(2)QSSB48EXT	170			330	
QSSB74+(2)QSSB48EXT				330	
QSSB48+(2)QSSB74EXT	196			267	
QSSB48+(2)QSSB74EXT				267	
QSSB74+(2)QSSB74EXT	222			282	
QSSB48+(2)QSSB48EXT	144			315	
QSSB48+(2)QSSB48EXT				315	
QSSB48+(2)QSSB48EXT	62			110	
QSSB62				110	
QSSB62+QSSB62EXT	124			186	
QSSB62+(2)QSSB62EXT	186			261	
QSSB48+QSSB48EXT	96			209	
QSSB48+(2)QSSB48EXT	144			315	
QSSB48+QSSB62EXT	110			178	
QSSB48+(2)QSSB62EXT	172			253	
QSSB62+(2)QSSB48EXT	158			323	
QSSB48+QSSB48EXT+(2)QSSB62EXT	220			359	
QSSB62+(2)QSSB48EXT	158			315	
QSSB74+QSSB62EXT+QSSB48EXT	184			299	
QSSB48+QSSB62EXT	110	178			
QSSB74+(2)QSSB48EXT	170	330			

Maximum width is listed as outside to outside at the foot of the stand.
Maximum height is listed as shown on product drawings.



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Notes and Comments:

1. Worst case representative sample from all Super Stands listed herein was selected for FEA analysis. It was analyzed using seismic loading criteria for non-structural components as set forth in the ASCE 7 chapter 13. The analyzed Super Stand cited in this certification was a representative sample(s) of a contingent of models and based on the analysis of selected Super Stand, all other listed Super Stand sizes are deemed structurally sound to resist mentioned seismic criteria. Although a seismically qualified Super Stand 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 Super stand 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. Equipment mounted on top of certified Super Stands are not covered under this certification. Weight of equipment supported on Super Stands should not exceed weight listed in the certified product table.
3. The following building codes are addressed under this certification:
IBC 2018 – referencing ASCE7-16
IBC 2015 – referencing ASCE7-10
4. 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 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.
5. Where applicable, Mechanical, Electrical, and Plumbing connections to the equipment supported on Super Stands 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 Super Stand will remain compliant to NEMA, IP, UL, or CSA standards after a seismic event.
6. This certificate applies to Super Stands manufactured at:
391 W Water St., Taunton, MA 02780

John P. Giuliano, PE
President, The VMC Group

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