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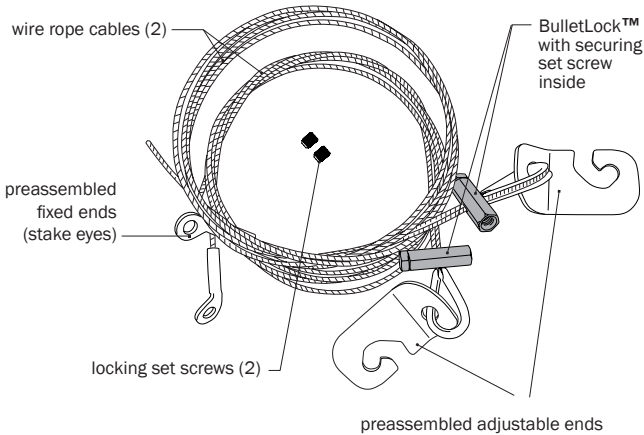
File No.: DS-BBR-006

Date: 13 July 2017

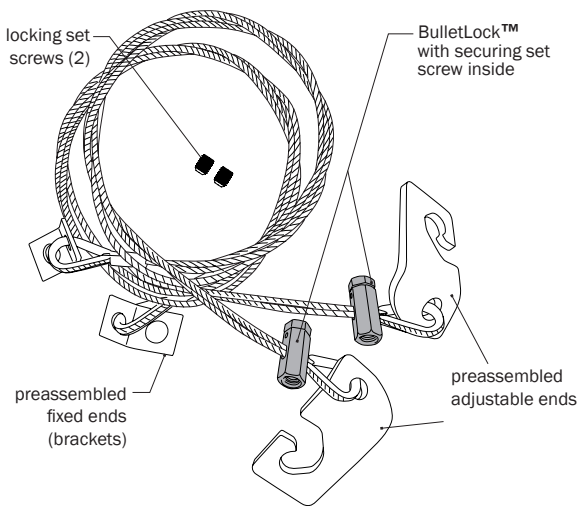
Supersedes: DS-BBR-005

Date: 23 May 2017

BBR-13



BBR-19



NOTES

- Restraint kits can be used as sway bracing to restrain non-structural components, e.g., equipment, ductwork, piping and conduit against seismic, wind, or blast forces. Not meant for gravity loads.
- Cable restraints consist of 7 x 19 galvanized steel wire rope cable in accordance with ASTM A1023 and MIL-83420.
- All hardware is galvanized or zinc plated except alloy steel set screws.
- Restraints have been tested and rated in accordance with ASHRAE 171. Kits supplied with fixed ends pulled tight to adjustable ends and securing set screws finger-tight against cables.

PERFORMANCE

Cable Kit Model	BulletLock™ label color	Rated Tension Load			
		Steel lb kN	6" Concrete lb kN	Metal Deck lb kN	Wood lb kN
BBR-13	Green	1000 4.45	1000 4.45	626 2.78	843 3.75
BBR-19	Red	2000 8.90	1490 6.63	816 3.63	1152 5.12

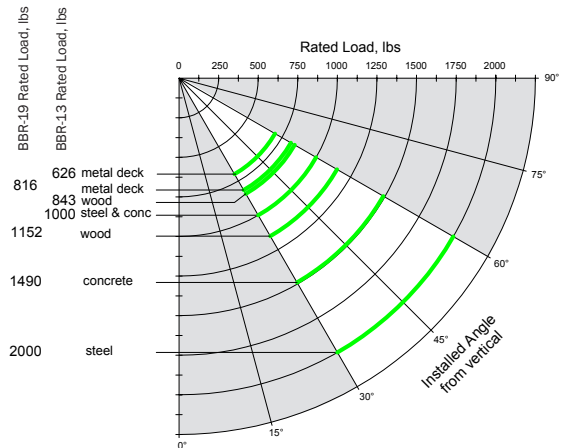
Rated loads based on:

- 30° - 60° installation angle
- 4000 psi concrete
- Hilti KB-TZ anchors
- Type W metal deck with 3.25" concrete cover
- Wood thickness at least 8 x anchor diameter
- Rated loads account for bracket prying
- action at critical angle
- Higher rated tension loads possible by incorporating Type DAB Double Anchor Brackets
- See INS-BB-AL for additional requirements and load ratings for other constructions

DIMENSIONS

Cable Kit Model	Cable Length ft m	Cable Diameter in mm	Fixed End Hole in mm	Adjustable End Slot Diameter in mm	Securing and Locking Set Screw Diameter in mm	Cable Kit Weight †
						lb kg
BBR-13-50	10 3	1/8 3	1/2 13	1/2 13	3/8 8.5	1.5 0.7
BBR-13-63				5/8 16		
BBR-13-88				7/8 22		
BBR-19-63	10 3	3/16 5	5/8 16	5/8 16	1/2 13	2.5 1.1
BBR-19-88				7/8 22		

† weights are approximate



- Cable kits use BulletLock™ securement apparatus (US patent #9,625,003) for associated wire rope size.
- Alternate configurations, materials, and brackets available. Contact Vibro-Acoustics.
- Option: Bulk wire rope and end components available where required lengths exceed standard length.

Project:			1:		6:	
Customer:			2:		7:	
Consultant:			3:		8:	
Dwg No.:	Rev:	Drawn by:	4:		9:	
V-A Project Manager:			5:		10:	
TAG:			QTY of sets required:			
COMMENTS:			EQUIPMENT:			
			DATE:			