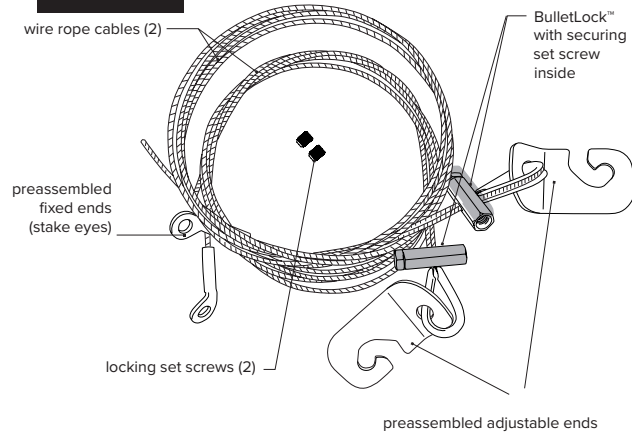


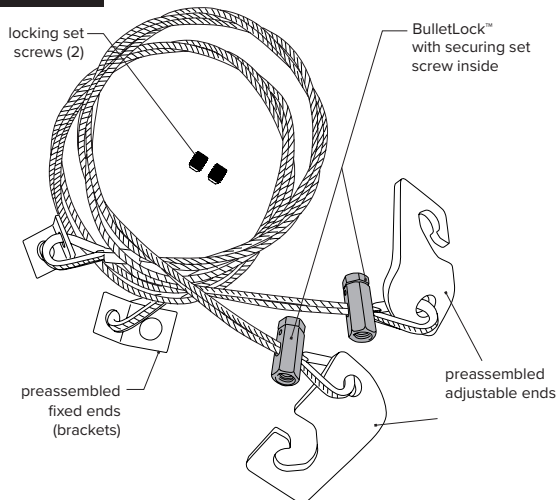
tel: 416-291-7371 1-800-565-8401  
fax: 416-291-8049 1-888-811-2264

web: www.vibro-acoustics.com  
eml: info@vibro-acoustics.com

## 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 7×19 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.

## BulletBrace™ Retrofit Preassembled Adjustable Cable Restraint Kits

# BBR

File No.: DS-BBR-006

Date: 27 April 2022

Supersedes: DS-BBR-005

Date: 23 May 2017

### PERFORMANCE

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

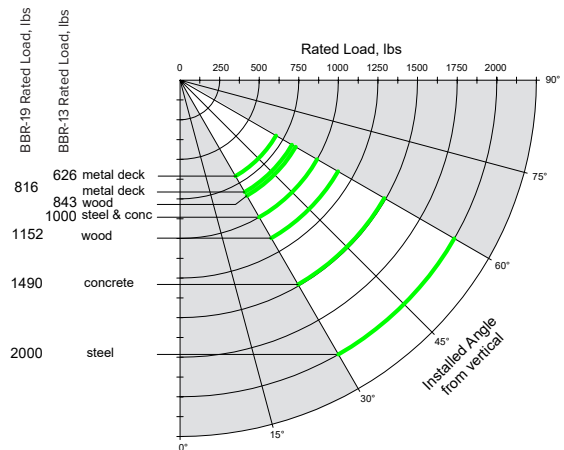
Rated loads based on:

- 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 × 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	Cable Diameter	Fixed End Hole	Adjustable End Slot Diameter	Securing and Locking Set Screw Diameter	Cable Kit Weight †
						lb kg
BBR-13-50				½ 13		
BBR-13-63	10 3	⅜ 3	½ 13	⅝ 16	⅜ 8.5	1.5 0.7
BBR-13-88				⅞ 22		
BBR-19-63	10 3	⅜ 5	⅝ 16	⅝ 16	½ 13	2.5 1.1
BBR-19-88				⅞ 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:			Plan view of mount locations:				1.	6.				
Customer:							2.	7.				
Consultant:							3.	8.				
Dwg No.:	Rev:	Drawn by:					4.	9.				
V-A Project Manager:							5.	10.				
TAG:							EQUIPMENT:				QTY of sets required:	
COMMENTS:											DATE:	