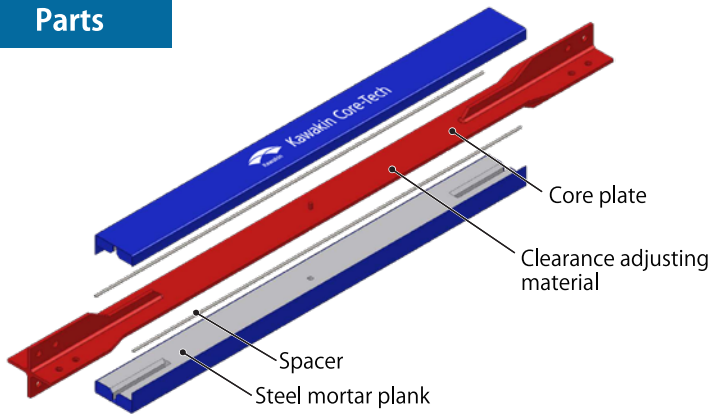


# K-BRB

Kawakin Buckling  
Restrained Brace



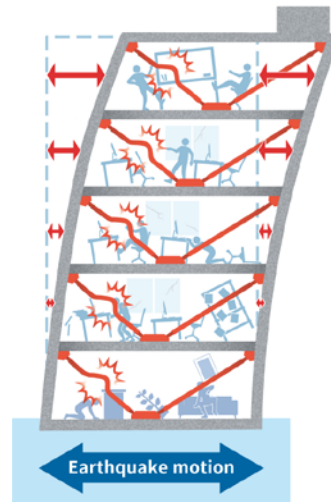
## Parts



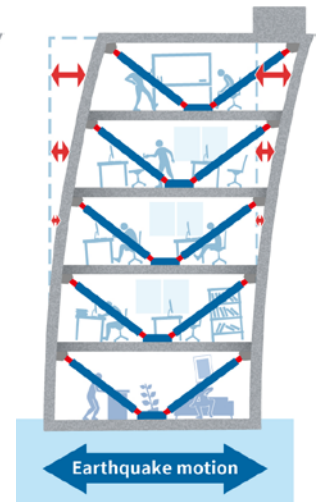
## Assembled



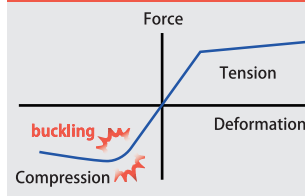
## Conventional Brace



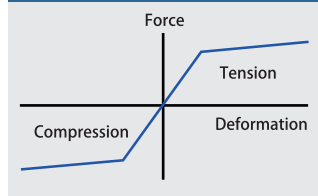
## K-BRB



## Conventional Brace Performance



## K-BRB Performance



1

The Kawakin Buckling Restrained Brace (K-BRB) is characterized by meticulous manufacturing control over the gap between the core material and the buckling restraint material. This parameter significantly influences the device's performance. Japan's stringent quality control measures ensure stable ductility of the core material, resulting in reliable hysteresis properties for both axial tension and compression.

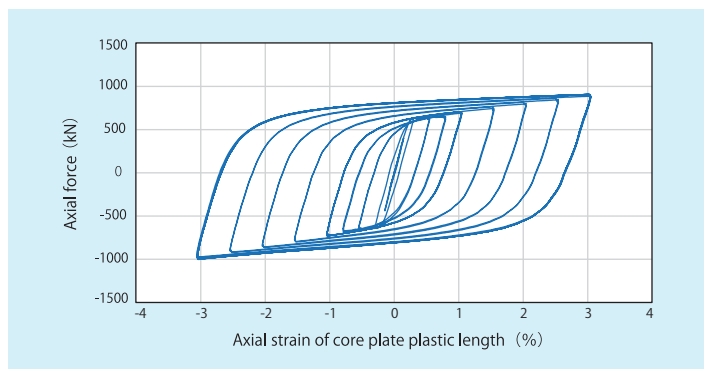
2

Through stringent control of the gap and the application of evaluation formulas in its design, the Kawakin Buckling-Restrained Brace can achieve a slim cross-section. This slim design leads to material optimization and cost benefits.

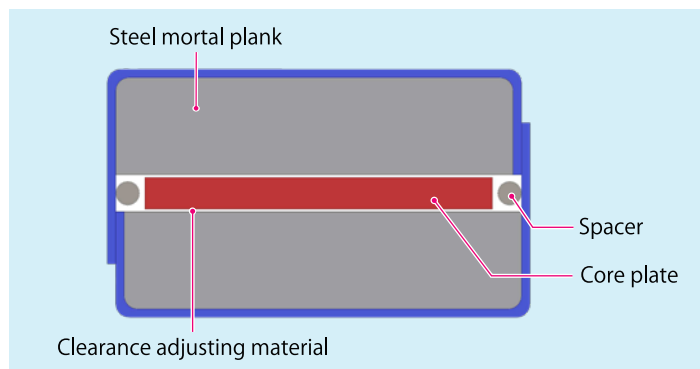
3

The evaluation methods for various yield strengths and toughness values have been assessed for their validity by a Japanese performance evaluation organization.

## Standard specifications



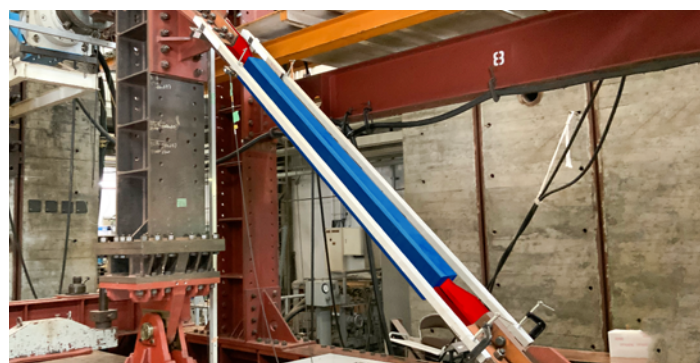
Hysteresis curve ( - : compression, + : tension)



K-BRB cross section

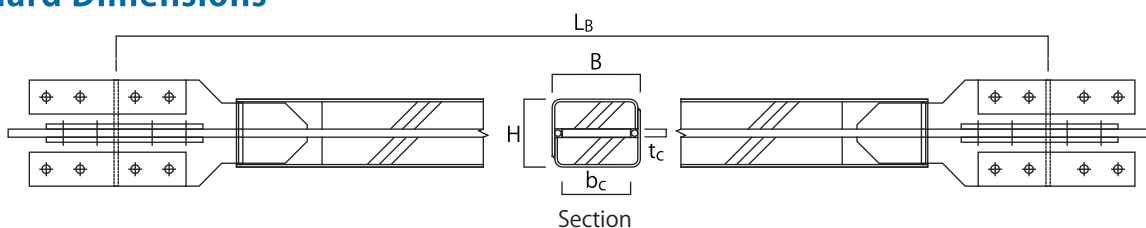


K-BRB manufacturing (Length 12m)



K-BRB performance test at Kanagawa University(Japan)

### ► Standard Dimensions



### ► Standard Product Lineup

Yield Strength (kN)	Core plate		Maximum Brace Length(mm)	Brace Cross Section		
	Material	Width(mm)		Thickness(mm)	Width (mm)	Height(mm)
		$b_c$	$t_c$	$L_B$	B	H
250	SN400	90	12	4000	130	128
500		115	19	4000	160	158
1000	SN490	165	19	5000	215	202
1500		185	25	5000	250	223
2000		250	25	5000	315	231
2500		245	32	5000	315	254
3000		290	32	5000	360	259
3500		300	36	6000	375	314
4000		345	36	6000	420	318

For products with materials and lengths other than those listed in the table, please contact us.

2024-04



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