



MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

350 Rabro Drive
Hauppauge, NY 11788
631/348-0282
FAX 631/348-0279
Info@Mason-Ind.com
www.Mason-Ind.com

2101 W. Crescent Ave., Suite D
Anaheim, CA 92801
714/535-2727
FAX 714/535-5738
Info@MasonAnaheim.com
www.MasonAnaheim.com

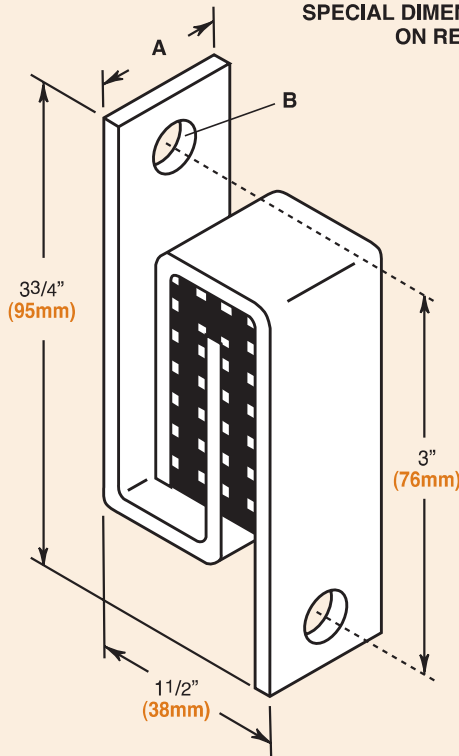
SPACE SAVING TYPE W NEOPRENE PAD INTERLOCKING CLIP (SWAY BRACE)

TYPE

WIC

DATA SHEET DS-402-1.1 B

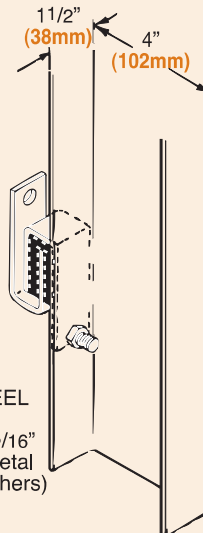
SPECIAL DIMENSIONS ON REQUEST



COMMON WALL WEIGHTS

Thickness (in)(mm)	Material	(lbs/ft ²)	(kg/m ²)
4 102	Brick	35	175
8 203		75	365
12 305		115	560
4 102	Heavy Aggregate	35	175
6 152		50	245
8 203		58	285
12 305	Concrete Block	90	440
4 102	Poured Concrete Masonry	48	235
6 152		72	350
8 203		96	470
12 305		144	705

Thickness (in)(mm)	Material	(lbs/ft ²)	(kg/m ²)
4 102	Steel Studding Alone	1.5	7.5
2x4 51x102	Wood Studding Alone	2.0	10
1/2 13	Gypsum Board	2.1	10
5/8 16		2.7	13
3/4 19		3.2	16
1 25	Cement Plaster	10.0	50
1 25	Gypsum Plaster	5.0	25
-	Metal Lathe	0.5	2.5
-	Gypsum Lathing Board	2.0	10



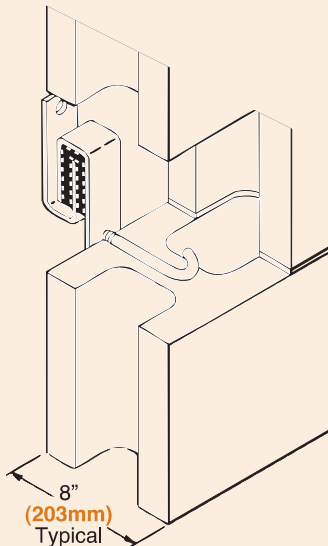
STANDARD STEEL
STUDDING END
WIC Brace with 5/16"
(8mm) Bolt for Metal
Studs (Bolt by Others)

MATERIAL:

Standard 40 Durometer
5/16"(8mm) Neoprene Waffle Pad

TYPE WIC DIMENSIONS (in mm)

Type & Size	A	B Hole Diameter
WIC-1	1 25	3/8 10
WIC-2	2 51	3/8 10



STANDARD
CONCRETE
BLOCK END
WIC Brace with 5/16"
(8mm) Diameter
Rod with 2" (51mm)
I.D. Hooked End for
Masonry Walls
(Hook by Others)

TYPE WIC LOAD RATINGS

Type & Size	Rated Horizontal Restraint & Deflection if Stressed		Maximum Assigned Wall Weight (lb)(kg)	Minimum Assigned Weight to Establish 15Hz (lb)(kg)
	Load (lb)(kg)	Defl (in)(mm)		
WIC-1	90 41	0.05 1.3	250 113	50 23
WIC-2	260 118	0.05 1.3	500 227	100 45

1. Sway braces prevent buckling or overturning of tall or long walls.
2. Buckling forces are extremely small when braces are reasonably spaced both horizontally and vertically as the brace spacing maintains a very low l/r column ratio.
3. Our general recommendation is spacing on four foot centers both horizontally and vertically.
4. The maximum axial restraint rating is approximately 33% of the maximum assigned wall weight and extremely conservative.
5. Vertical resistance information is provided for checking embedment requirements in walls and shear or pullout forces on both ends of the sway braces. Sway braces are not to be used for vertical supports.

6. Response frequency is a function of the attached mass and the dynamic stiffness in the direction of vibration. The 15 Hz response is normally lower and more desirable than what is usually specified. Heavier weight assignments than the specified minimum will lower the response frequency by the square root of the ratio of the minimum weight to the assigned value multiplied by 15 Hz. Lighter loads will increase the frequency by the same proportion.

EXAMPLE: Steel stud wall with 2 layers of 3/4 inch gypsum board weighing 7.9 lbs. per sq.ft. Sway braces on 4 foot centers both ways.

Assigned Weight = 16 x 7.9 = 126 lbs.
WIC-1 Selection (Maximum 250 lbs)
Frequency = 15Hz x $\sqrt{126/250}$ = 10.65 Hz