



MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

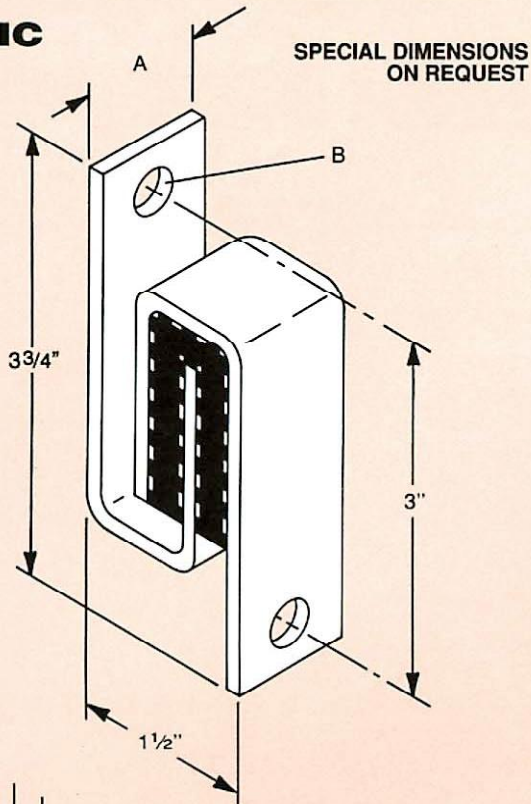
350 Rabro Drive 708 N. Valley St. Suite K
Hauppauge, NY 11788 Anaheim, CA 92801
516/348-0282 714/535-2727
FAX 516/348-0279 FAX 714/535-5738
Info@Mason-Ind.com Info@MasonAnaheim.com

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

TYPE
WIC

DATA SHEET DS-402 B

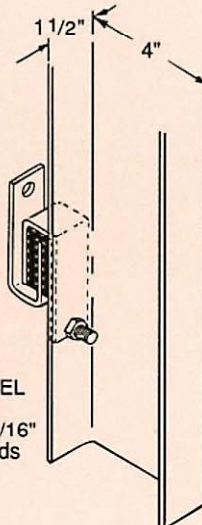
WIC



COMMON WALL WEIGHTS

Thickness (inches)	Material	lbs/ft ²
4	Brick	35
8		75
12		115
4	Heavy Aggregate Hollow Concrete Block	35
6		50
8		58
12		90
4	Poured Concrete Masonry	48
6		72
8		96
12		144

Thickness (inches)	Material	lbs/ft ²
4	Steel Studding Alone	1.5
2 x 4	Wood Studding Alone	2.0
1/2	Gypsum Board	2.1
5/8		2.7
3/4		3.2
1	Cement Plaster	10.0
1	Gypsum Plaster	5.0
-	Metal Lathe	0.5
-	Gypsum Lathing Board	2.0



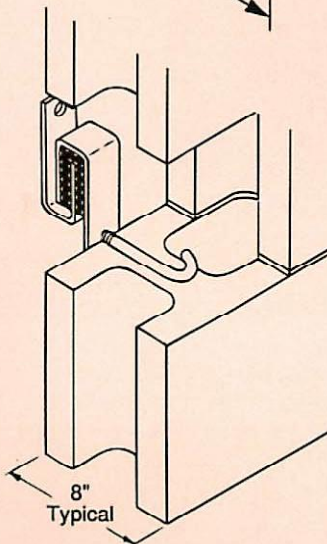
STANDARD STEEL
STUDDING END
WIC Brace with 5/16"
Bolt for Metal Studs
(Bolt by Others)

MATERIAL:

Standard 40 Durometer
5/16" Neoprene Waffle Pad

TYPE WIC DIMENSIONS (inches)

WIC Size	A	B Hole Diameter
1	1	3/8
2	2	3/8



STANDARD
CONCRETE
BLOCK END
WIC Brace with 5/16"
Diameter Rod with 2"
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	Minimum Assigned Weight to Establish 15 Hz
	Load (lbs)	Defl (in)		
WIC-1	90	0.05	250 lbs	50 lbs
WIC-2	260	0.05	500 lbs	100 lbs

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

Assigned Weight = $16 \times 7.9 = 126$ lbs.

WIC-1 Selection (Maximum 250 lbs)

Frequency = $15 \text{ Hz} \times \sqrt{126/250} = 10.65 \text{ Hz}$