

MASON INDUSTRIES, Inc. Manufacturers of Vibration Control Products

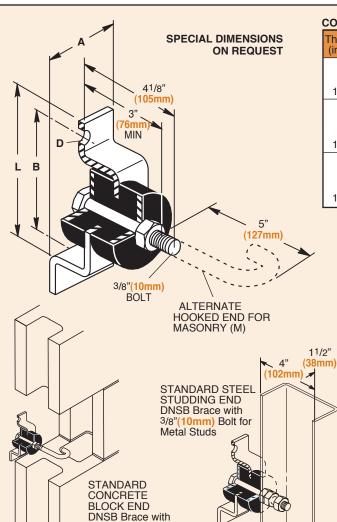
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DOUBLE DEFLECTION SWAY BRACE FOR MASONRY OR DRY WALL CONSTRUCTION

TYPE

DATA SHEET DS-402-1.1 A



COMMON WALL WEIGHTS

Thickness (in)(mm)	^S Material	(lbs/ft²) (kg/m²)
4 102 8 203 12 305	Brick	35 175 75 365 115 560
4 102 6 152 8 203 12 305	Heavy Aggregate Hollow Concrete Block	35 175 50 245 58 285 90 440
4 102 6 152 8 203 12 305	Poured Concrete Masonry	48 235 72 350 96 470 144 705

Thickness (in)(mm)	Material	(lbs/ft²) (kg/m²)
4 102 2x4 51x102	Steel Studding Alone Wood Studding Alone	1.5 7.5 2.0 10
1/2 13 5/8 16 3/4 19	Gypsum Board	2.1 10 2.7 13 3.2 16
1 25 1 25	Cement Plaster Gypsum Plaster	10.0 50 5.0 25
-	Metal Lathe Gypsum Lathing Board	0.5 2.5 2.0 10

PHYSICAL PROPERTIES OF BRIDGE BEARING **NEOPRENE ELEMENTS**

60
60±5
2500
350
acteristics
+15
e ±15
-40
No Cracks
25

TYPE DNSB DIMENSIONS (in mm)

Type & Size		Α	В	D Hole Diameter	П
DNSB-A DNSB-AM*	2	51	33/4 95	1/2 13	43/4 121
DNSB-B DNSB-BM*	21	/2 <mark>64</mark>	41/4 108	1/2 13	51/4 133

TYPE DNSB LOAD RATINGS

		ated Axial Deflection			Maximum Minimum Assigned Assigned Wall Weight to		Resistance to Vertical Motion Created by Wall Pad or Floating Floor Deflection							
Type & Size	Load (lb)(kg)	Defl (in)(mm)	Load (lb)(kg)	Defl (in)(mm)	Weight (lb)(kg)	Establish	Load (lb)(kg	Defl (in)(mm)	Load (lb)(kg)	Defl (in)(mm)	Load (lb)(kg)	Defl (in)(mm)	Load (lb)(kg)	Defl (in)(mm)
DNSB-A DNSB-AM*	56 25	0.10 2.5	84 38	0.15 3.8	250 113	50 23	6 3	0.05 1.3	12 50	0.10 2.5	18 8	0.15 3.8	24 11	0.20 5.1
DNSB-B DNSB-BM*	260 118	0.10 2.5	390 177	0.15 3.8	1200 544	400 181	39 18	0.05 1.3	78 35	0.10 2.5	117 53	0.15 3.8	156 71	0.20 5.1

*"M" designates Hooked End for Masonry

1. Sway braces prevent buckling or overturning of tall or long walls.

3/8"(10mm) Diameter Rod with 2"(51mm) I.D. Hooked End for Masonry 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.
- The maximum axial restraint rating is approximately 33% of the maximum assigned wall weight and extremely conservative.
- 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 10 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 10 Hz. Lighter loads will increase the frequency by the same proportion.

EXAMPLE: 8" Concrete Block Wall weighing 55 lbs. per sq/ft. Sway braces on 4 foot centers both ways.

Assigned Weight = 16 x 55 = 880 lbs. Selection DSNB-B (Maximum 1200 lbs) Frequency = $10 \text{Hz} \times \sqrt{400/880} = 6.74 \text{ Hz}$



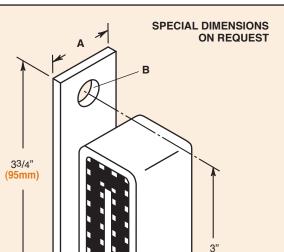
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SPACE SAVING TYPE W NEOPRENE PAD INTERLOCKING CLIP (SWAY BRACE)

DATA SHEET DS-402-1.1 B



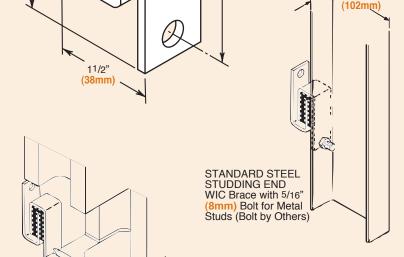
COMMON WALL WEIGHTS

Thickness (in)(mm)	^S Material	(lbs/ft²) (kg/m²)
4 102 8 203 12 305	Brick	35 175 75 365 115 560
4 102 6 152 8 203 12 305	Heavy Aggregate Hollow Concrete Block	35 175 50 245 58 285 90 440
4 102 6 152 8 203 12 305	Poured Concrete Masonry	48 235 72 350 96 470 144 705

4"

11/2" (38mm)

Thickness (in)(mm)	Material	(lbs/ft²) (kg/m²)
	Steel Studding Alone Wood Studding Alone	1.5 7.5 2.0 10
1/2 13 5/8 16 3/4 19	Gypsum Board	2.1 10 2.7 13 3.2 16
1 25 1 25	Cement Plaster Gypsum Plaster	10.0 50 5.0 25
	Metal Lathe Gypsum Lathing Board	0.5 2.5 2.0 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)

(76mm)

MATERIAL:

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

TYPE WIC DIMENSIONS (in mm)

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

TYPE WIC LOAD DATINGS

TYPE WIC LOAD RATINGS								
		ontal Restraint n if Stressed	Maximum Assigned Wall	Minimum Assigned Weight to				
Type & Size	Load (lb)(kg)	Defl (in)(mm)	Weight (lb)(kg)	Establish 15Hz(lb)(kg)				
WIC-1 WIC-2	90 41 260 118	0.05 1.3 0.05 1.3	250 113 500 227	50 <mark>23</mark> 100 45				

1. Sway braces prevent buckling or overturning of tall or long walls.

8

Typical

- 2. Buckling forces are extremely small when braces are reasonably spaced both horizontally and vertically as the brace spacing maintains a very low I/r column ratio.
- 3. Our general recommendation is spacing on four foot centers both horizontally and vertically.
- The maximum axial restraint rating is approximately 33% of the maximum assigned wall weight and extremely conservative.
- 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 $\times\sqrt{126/250}$ = 10.65 Hz