

MASON INDUSTRIES, Inc.

Manufacturers of

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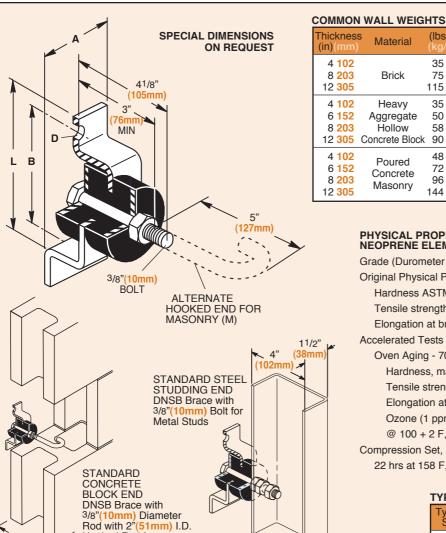
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DOUBLE DEFLECTION **SWAY BRACE FOR MASONRY OR DRY** WALL CONSTRUCTION

+15

25

DATA SHEET DS-402-1.1 A



Material 4 102 35 175 8 203 Brick 75 365 12 305 115 **560** 4 102 35 175 Heavy 6 152 Aggregate 50 245

Hollow 58 **285** 8 203 Concrete Block 12 305 90 440 4 102 48 **235** Poured 6 152 72 **350** Concrete 8 203 96 470 Masonry 12 305 144 705

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 <mark>50</mark> 5.0 25
-	Metal Lathe Gypsum Lathing Board	0.5 2.5 2.0 10

PHYSICAL PROPERTIES OF BRIDGE BEARING **NEOPRENE ELEMENTS**

Grade (Durometer A) 60 Original Physical Properties Hardness ASTM-D676 60±5 Tensile strength, minimum psi ASTM-D412 2500 Elongation at break, minimum percentage 350 Accelerated Tests to Determine Long-term Aging Characteristics Oven Aging - 70 hrs @ 212 F, ASTM-D573

Hardness, maximum change of points

Tensile strength, maximum percentage of change ±15 Elongation at break, minimum percentage -40

Ozone (1 ppm in air by volume @ 20% strain

@ 100 + 2 F, ASTM-D1149, 100 hrs No Cracks

Compression Set, ASTM-D395 - Method B,

22 hrs at 158 F, maximum percentage of change

TYPE DNSB DIMENSIONS (in mm)

Type & Size	А		В	D Hole Diameter	L	
DNSB-A DNSB-AM*	2	51	33/4 95	1/2 13	43/4 121	
DNSB-B DNSB-BM*	21,	/2 64	41/4 108	1/2 13	51/4 133	

TYPE DNSR I OAD RATINGS

8"(203mm Typical

THE BROD LOAD HATINGS														
	Rated Axial Restraint & Deflection if Stressed			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 10Hz(lb)(kg)	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 <mark>71</mark>	0.20 5.1

*"M" designates Hooked End for Masonry

Hooked End for

Masonry Walls

- 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.
- 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 = 10Hz x $\sqrt{400/880}$ = 6.74 Hz