



MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

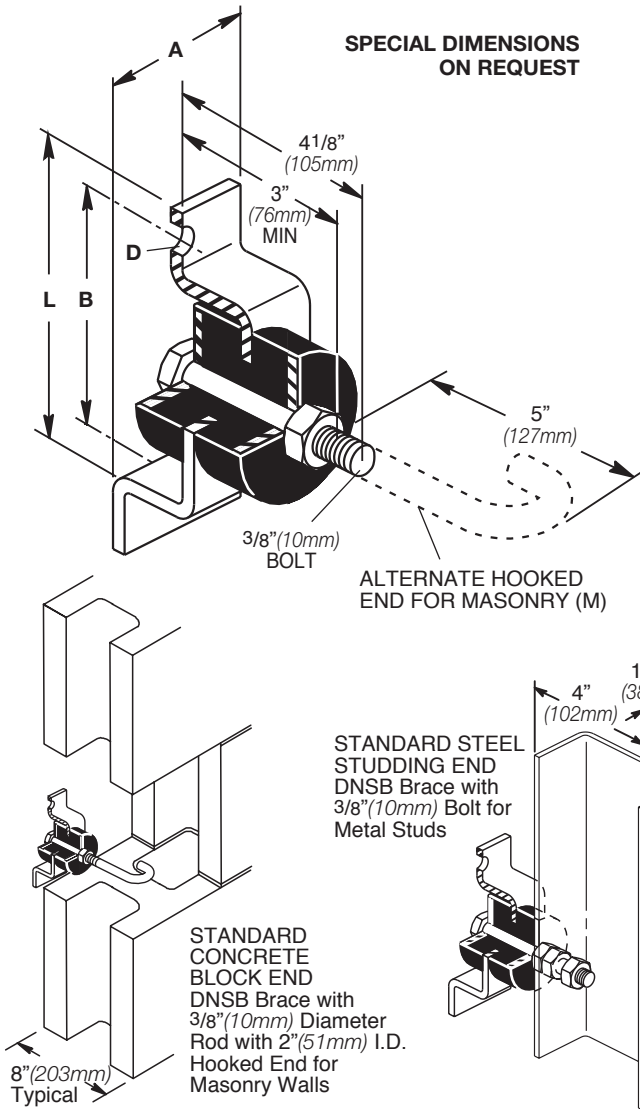
350 Rabro Drive Hauppauge, NY 11788
 631/348-0282 FAX 631/348-0279
 Info@Mason-Ind.com www.Mason-Ind.com

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

JOB NAME _____
 CUSTOMER _____
 CUSTOMER P.O. _____
 MASON M. _____
 DWG No. _____

DNSB

SWAY BRACE



SPECIAL DIMENSIONS ON REQUEST

COMMON WALL WEIGHTS

Thickness (in)(mm)	Material	(lbs/ft ²) (kg/m ²)	Thickness (in)(mm)	Material	(lbs/ft ²) (kg/m ²)
4 102	Brick	35 175	4 102	Steel Studding Alone	1.5 7.5
8 203		75 365	2x4 51x102	Wood Studding Alone	2.0 10
12 305		115 560			
4 102	Heavy	35 175	1/2 13	Gypsum Board	2.1 10
6 152	Aggregate	50 245	5/8 16		2.7 13
8 203	Hollow	58 285	3/4 19		3.2 16
12 305	Concrete Block	90 440	1 25	Cement Plaster	10.0 50
4 102	Poured Concrete Masonry	48 235	1 25	Gypsum Plaster	5.0 25
6 152		72 350	-	Metal Lathe	0.5 2.5
8 203		96 470	-	Gypsum Lathing Board	2.0 10
12 305		144 705			

PHYSICAL PROPERTIES OF BRIDGE BEARING LDS ELEMENTS

Grade (Durometer A)	50
Original Physical Properties	
Hardness ASTM-D2240	50±5
Tensile strength, minimum psi ASTM-D412	2250
Elongation at break, minimum percentage	450
Accelerated Tests to Determine Long-term Aging Characteristics	
Oven Aging - 70 hrs @ 158° F, ASTM-D573	
Hardness, maximum change of points	+10
Tensile strength, maximum percentage of change	-25
Elongation at break, minimum percentage	-25
Ozone (25 ppm in air by volume @ 20% strain @ 100° F, ASTM-D1149, 48 hrs)	No Cracks
Compression Set, ASTM-D395 - Method B, 22 hrs at 158° F, maximum percentage of change	25

TYPE DNSB DIMENSIONS (in mm)

Type & Size	A	B	D Hole Diameter	L
DNSB-A DNSB-AM*	2 51	3 3/4 95	1/2 13	4 3/4 121
DNSB-B DNSB-BM*	2 1/2 64	4 1/4 108	1/2 13	5 1/4 133

TYPE DNSB LOAD RATINGS

Type & Size	Rated Axial Restraint & Deflection if Stressed				Maximum Assigned Wall Weight (lb)(kg)	Minimum Assigned Weight to Establish 10Hz(lb)(kg)	Resistance to Vertical Motion Created by Wall Pad or Floating Floor Deflection							
	Load (lb)(kg)	Defl (in)(mm)	Load (lb)(kg)	Defl (in)(mm)			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

- Sway braces prevent buckling or overturning of tall or 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 column ratio.
- 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.
- 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 √(400/880) = 6.74 Hz