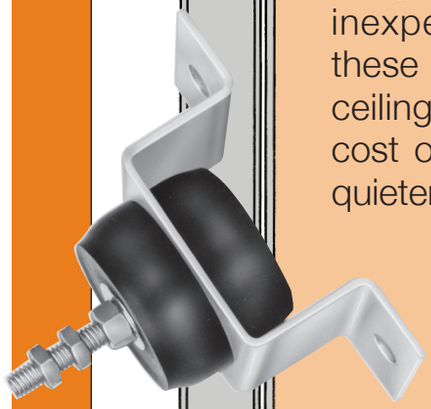
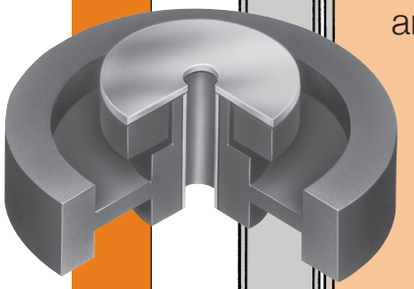
MASON LDS RUBBER SOUND ISOLATION SYSTEM

for Ceilings & Walls





A New Total Concept Approach to Low Cost Noise Isolation Systems

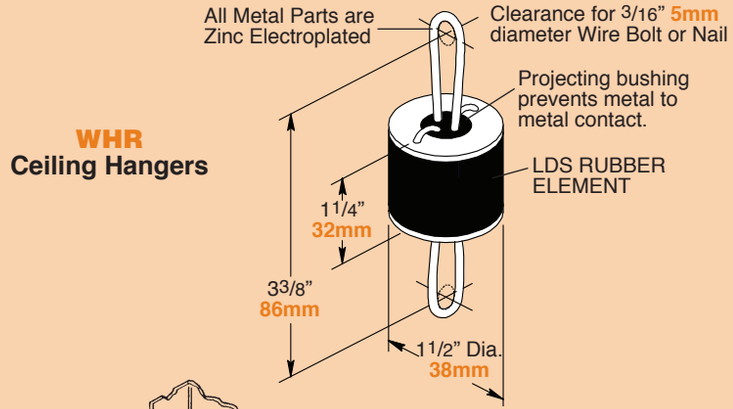
The noise isolation efficiency of mechanical or gypsum board walls and ceilings is seriously threatened when solid connections are made to noisy structural walls, ceilings or floors. Simple inexpensive LDS rubber isolators can break these sound paths when used as wall braces, ceiling hangers or floor supports. The modest cost of this protection is more than paid for by quieter occupied space.

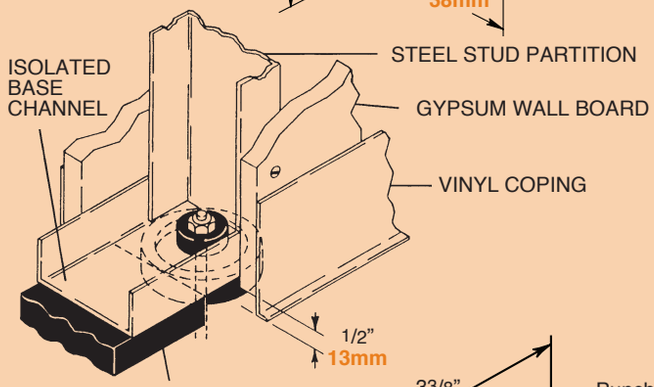
Typical applications include offices, conference rooms, computer rooms, studios, machine rooms, etc. See the back of this sheet for physical data; when ordering please include model designation and size to ensure prompt service.

Should you require assistance in determining your exact requirements, contact our factory, your local representative or distributor.

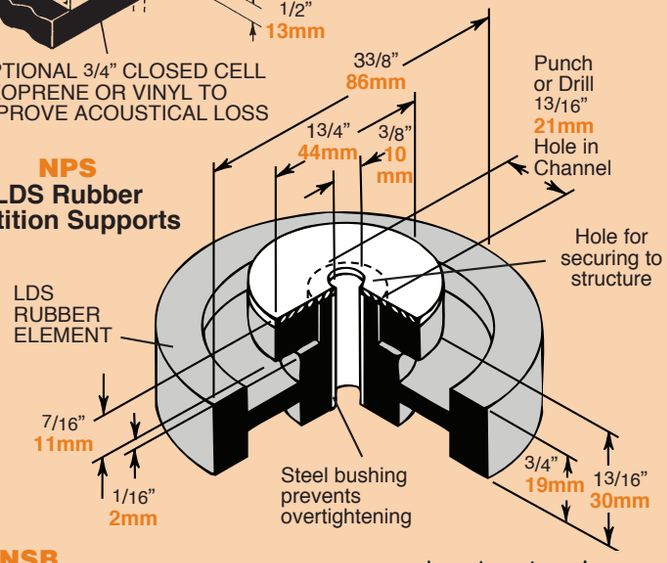
NSI-21-2

WHR Ceiling Hangers

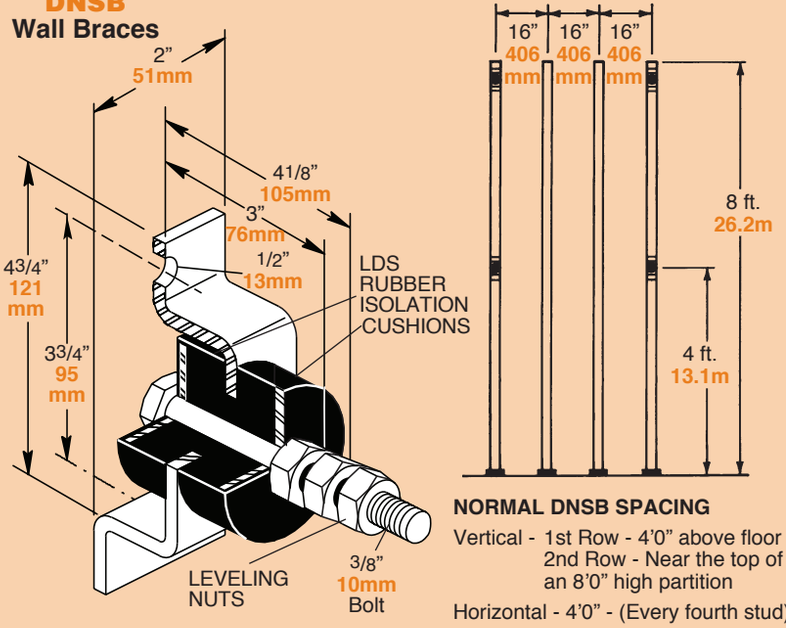




NPS LDS Rubber Partition Supports



DNSB Wall Braces



NORMAL DNSB SPACING

Vertical - 1st Row - 4'0" above floor
2nd Row - Near the top of an 8'0" high partition

Horizontal - 4'0" - (Every fourth stud)

WHR CEILING HANGERS

WHR LOAD RATINGS

WHR Size	Durometer	Color Code	RATED LOAD lbs.	RATED LOAD kilos	Max Static Defl in	Max Static Defl mm
40	40	Green	Up to 60	27	0.2	5.0
50	50	Red	55-95	25-43	0.2	5.0
60	60	White	90-155	41-70	0.2	5.0
70	70	Yellow	150-220	68-100	0.2	5.0

WHR Selection Guide - Typical Application
Hangers Located on 48" 1200mm Centers

WHR Size	Construction	Approximate Wt. Sq. Ft.	Approximate Wt. Sq. Meter
40	1" 25mm Ceiling Tile	2.5 lbs	12 Kilos
50	2 Layers 1/2" 13mm Gypsum Board	4.5 lbs	22 Kilos
60	2 Layers 5/8" 16mm Gypsum Board	5.6 lbs	27 Kilos
60	2 Layers 3/4" 19mm Gypsum Board	6.8 lbs	33 Kilos
70	Plaster & Lathe	10.0 lbs	49 Kilos

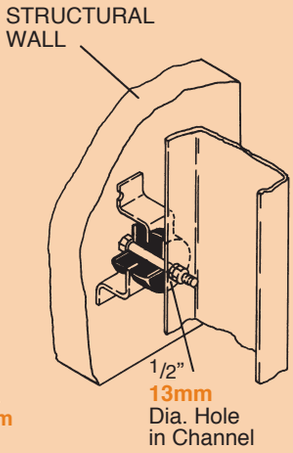
NPS LDS RUBBER PARTITION SUPPORTS

NPS LOAD RATINGS

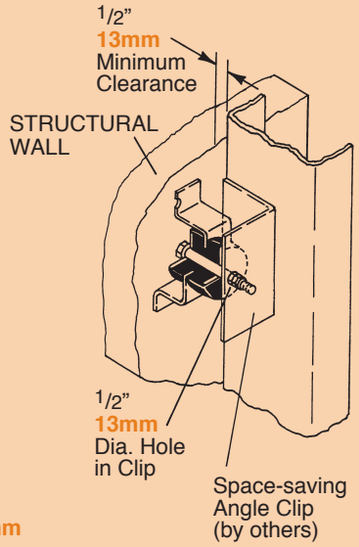
NPS Size	Durometer	Color Code	RATED LOAD lbs.	RATED LOAD kilos	Max Static Defl in	Max Static Defl mm
30	30	Black	140	64	0.12	2.8
40	40	Green	240	109	0.12	2.8

NPS Selection Guide - Typical Application
Supports on 16" 400mm centers with a wall height of 96" 240mm and 4" 100mm studs

NPS Size	Gypsum Board	Approximate Wt. Sq. Ft lbs.	Approximate Wt. Sq. Meter kilos	Weight per Location lbs.	Weight per Location kilos
30	1/2" 13mm 1 Side	4.2	45	45	21
30	1/2" 13mm 2 Sides	6.7	72	71	32
30	5/8" 16mm 1 Side	4.8	52	51	23
30	5/8" 16mm 2 Sides	7.6	82	81	37
30	3/4" 19mm 1 Side	5.4	58	58	26
30	3/4" 19mm 2 Sides	8.8	95	94	43



STANDARD STEEL STUDDING END DNSB Brace with 3/8" 10mm Bolt for Metal Studs



DNSB WALL BRACES

TYPE DNSB LOAD RATINGS

Type & Size	Rated Axial Restraint & Deflection if Stressed				Maximum Assigned Wall Weight	Minimum Assigned Weight to Establish 10Hz
	Load lbs / kgs	Defl in / mm	Load lbs / kgs	Defl in / mm	lbs / kgs	lbs / kgs
DNSB-A	56 / 25	0.10 / 2.5	84 / 38	0.15 / 3.8	250 / 113	50 / 22.7

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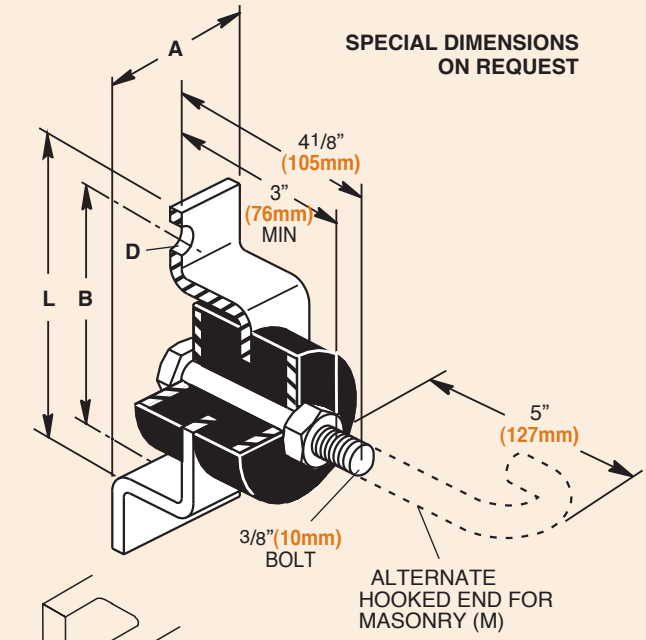
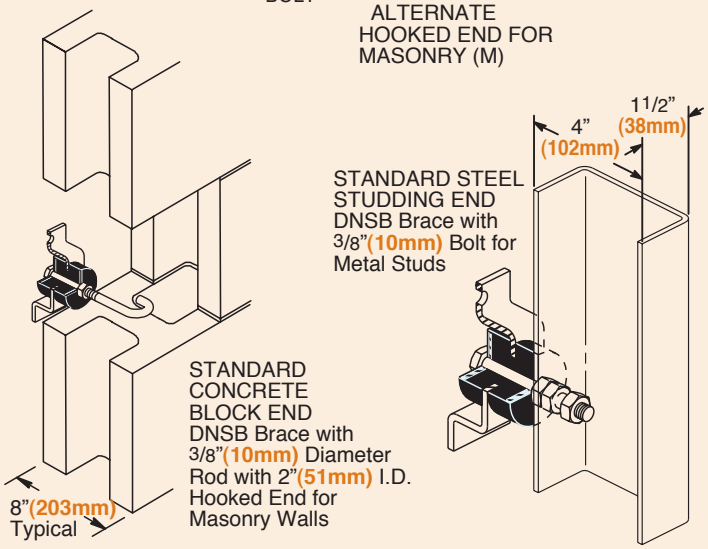
DOUBLE DEFLECTION SWAY BRACE FOR MASONRY OR DRY WALL CONSTRUCTION

TYPE **DNSB**

DATA SHEET DS-402-1.1 A





COMMON WALL WEIGHTS

Thickness (in) (mm)	Material	(lbs/ft²) (kg/m²)
4 102	Brick	35 175
8 203		75 365
12 305		115 560
4 102	Heavy Aggregate Hollow Concrete Block	35 175
6 152		50 245
8 203		58 285
12 305		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/ft²) (kg/m²)
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

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	+15
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	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

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 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

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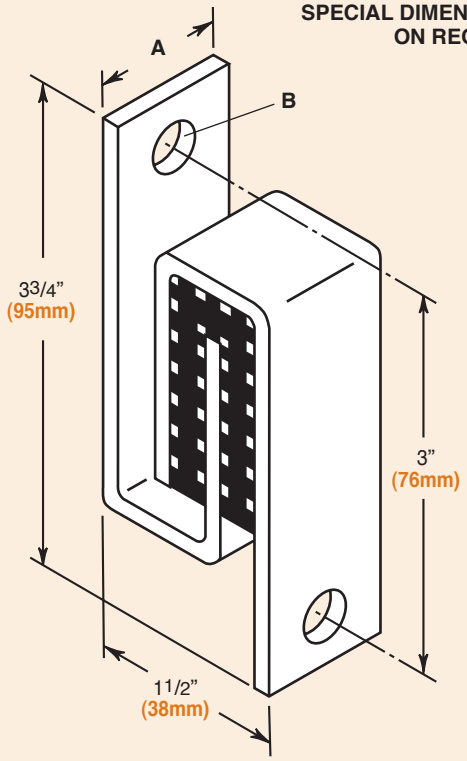
SPACE SAVING TYPE W NEOPRENE PAD INTERLOCKING CLIP (SWAY BRACE)

TYPE WIC

DATA SHEET DS-402-1.1 B

SPECIAL DIMENSIONS ON REQUEST



COMMON WALL WEIGHTS

Thickness (in) (mm)	Material	(lbs/ft²) (kg/m²)
4 102	Brick	35 175
8 203		75 365
12 305		115 560
4 102	Heavy Aggregate Hollow Concrete Block	35 175
6 152		50 245
8 203		58 285
12 305		90 440
4 102	Poured Concrete Masonry	48 235
6 152		72 350
8 203		96 470
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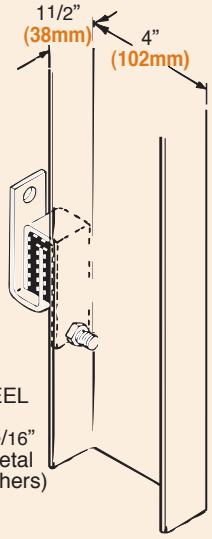
Thickness (in) (mm)	Material	(lbs/ft²) (kg/m²)
4 102	Steel Studding Alone	1.5 7.5
2x4 51x102	Wood Studding Alone	2.0 10
1/2 13	Gypsum Board	2.1 10
5/8 16		2.7 13
3/4 19		3.2 16
1 25	Cement Plaster	10.0 50
1 25	Gypsum Plaster	5.0 25
-	Metal Lathe	0.5 2.5
-	Gypsum Lathing Board	2.0 10



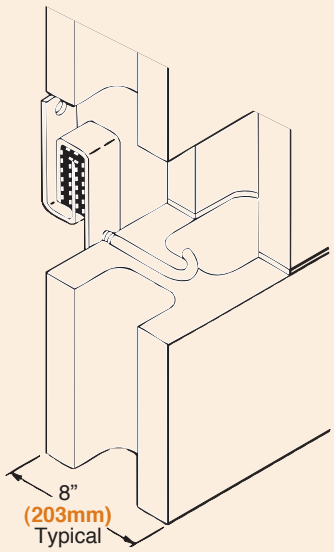
STANDARD STEEL STUDDING END
WIC Brace with 5/16" (8mm) Bolt for Metal Studs (Bolt by Others)

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