



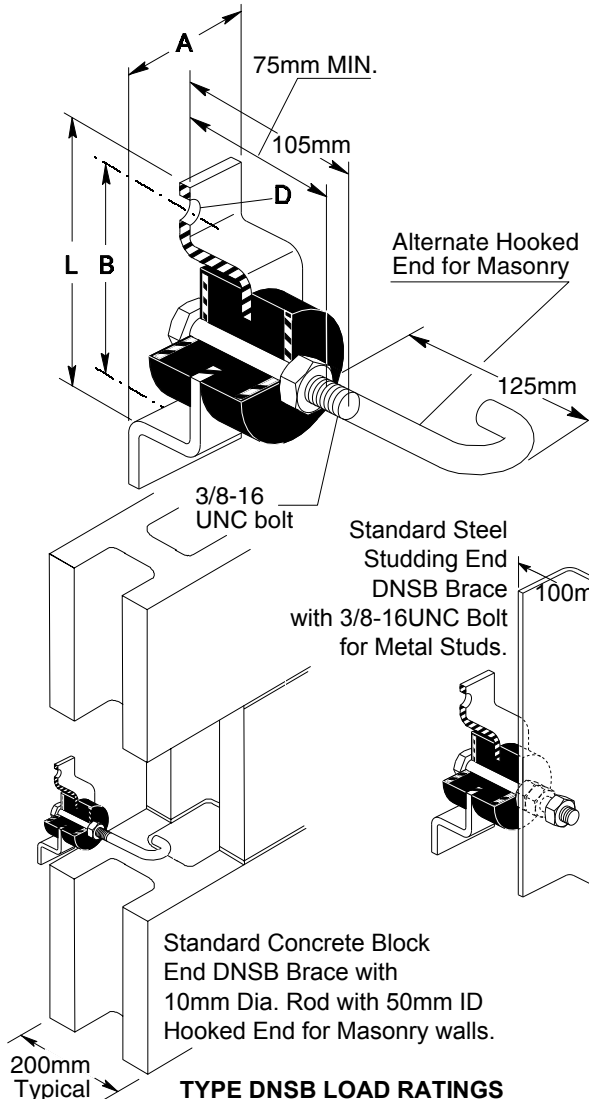
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CERTIFIED FOR

JOB NAME :
CUSTOMER :
CUSTOMER P.O. :
MASON M.I. :
DWG. NO. :

TYPE

DNSB
 Sway Brace



COMMON WALL THICKNESS

Thickness [mm]	Material	kg/m ²	Thickness [mm]	Material	kg/m ²
100	Brick	170	100	Steel Studding Alone	7
200		366	50 x 100	Wood Studding Alone	10
300		561			
100	Heavy Aggregate Concrete Block	171	13	Gypsum Board	10
150		244	16		13
200		283	19		16
300		439	25	Cement Plaster	49
100	Poured Concrete Masonry	234	25	Gypsum Plaster	24
150		352	-	Metal Lathe	2.4
200		469	-		
300		703	-		

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 (mm)

DNSB Size	Hole Dia.			
	A	B	C	L
A	50	95	13	121
B	64	108	13	133

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: 200mm Concrete Block Wall weighing 283kg per sq/m. Sway braces on 1.2 meter centers both ways.
 Assigned Weight = 1.48 x 283 = 419 kg.
 Selection DSNB-B (Maximum 544 kg)
 Frequency = 10Hz x 181/419 = 6.74 Hz

DWN : CHKD: DATE :

DWG NO. :