

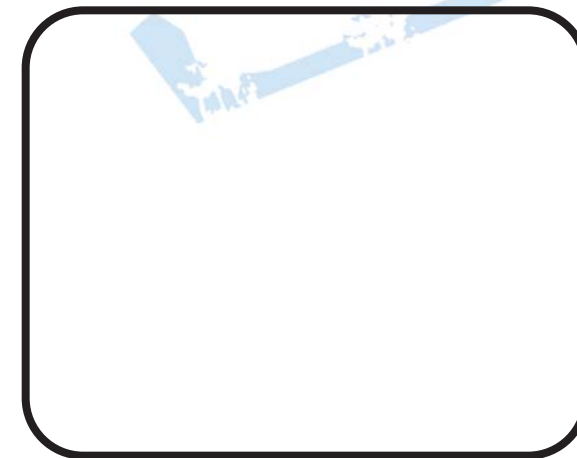
REINFORCED HOLLOW SECTION

Reinforced Hollow Section or RHS is one of the most versatile products made from steel and is available in a variety of shapes and sizes

RHS is cold-formed, direct welded carbon steel, and is available in square, round, and rectangular shapes for general structural purposes. While it is used widely in fabrication and furniture manufacturing, it is also specified where strong lightweight frame construction is desirable

At Caribbean Steel Mills we have adopted a new rust-inhibiting process whereby the section is protected on its inside thereby improving the product's shelf life.

Each Reinforced Hollow Section manufactured by CSM is guaranteed to meet the ASTM specification.



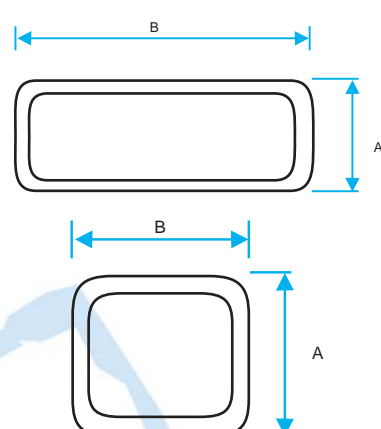
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REINFORCED HOLLOW SECTION

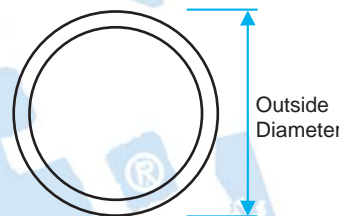
RECTANGLES AND SQUARES

Nominal size A X B	Nominal wall thickness	Nominal mass per unit length	Nominal area of section	No. of tubes per bundle
mm x mm	mm	kg/m	mm ²	
25 x 25	2.0	1.57	184	100
25 x 50	2.0	2.32	284	50
40 x 40	2.0	2.48	304	49
40 x 80	3.5	6.56	791	
50 x 50	2.0	3.11	384	36
60 x 100	3.5	8.65	1071	15
80 x 80	3.5	8.65	1071	12
100 x 100	3.5	10.91	1351	9



ROUNDS

Nominal outside diameter	Nominal wall thickness	Nominal mass per unit length	Nominal area of section	Number of tubes per bundle
mm	mm	kg/m	mm ²	
16	2.0	0.816	103.9	200
32	2.0	1.554	197.9	200
101.6	3.5	8.654	1102.5	20



TUBES AND PIPES

Product Shape	Nominal Dimensions	Wall Thickness	Nominal Weight	No of Tubes per bundle
	mm			
Rounds	19	1.2	0.575	150
	22	1.2	0.650	150
	32	1.2	0.951	100
Squares	12.7 x 12.7	1.2	0.499	150
	16 x 16	1.2	0.622	150
	19 x 19	1.2	0.735	150
	19 x 19	1.5	0.895	150
	25 x 25	1.2	0.970	100
	25 x 25	1.5	1.189	100

NOTE: 1. The above products are provided in standard lengths of 6m.

REINFORCED HOLLOW SECTION

MECHANICAL PROPERTIES

TENSILE TEST : SPECIFICATION : ASTM A500 - 01a

Mechanical properties	Rectangles	Rounds	
	t = 2.0 mm	t = 3.5 mm	
Min. tensile strength (MPa)	310	310	310
Min. yield strength (Mpa)	269	269	228
Min. elongation in 50.8 mm gauge length	21.9	25	25

FLATTENING TEST

A flattening test is required for rounds but not for rectangular and square RHS

TOLERANCES ON PRODUCTS : SPECIFICATION : ASTM A500 - 01a

	Rectangles	Round
	Outer dimensions	Product Size = < 63.5 mm 63.5 to 88.9 mm 88.9 to 139.7 mm
Wall thickness	+/- 10%	+/- 10%
Length	+ 12.7 mm max. - 6.4 mm min.	
Straightness	max. variation = 10.4 mm x number of meters / 5	
Squareness	+/- 2° max. from 90°	N/A
Max. twist in the first 1 m	for longest side: 38.1 to 63.5 mm for longest side: 63.5 to 101.6 mm	1.72 mm 2.09 mm
Radius of corner	Radius of outer corner < 3 x wall thickness	N/A

- NOTES:
1. Tubes are produced in standard lengths of 6m.
 2. N/A designates that the property is not applicable to the shape.
 3. Mill Test Certificates are provided upon request.