

SC-R standard range of FRP profiles, grating and top cover grating used for fabrication.

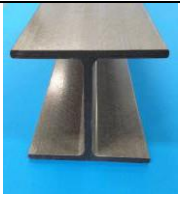
SC-R I-Beam

Dimensions (mm) A X B X T1X T2	WEIGHT (Kg/m)
50 x 102 x 6.4 x 6.4	2.40
76 x 152 x 9.5 x 9.5	5.32
102 x 203 x 12.7 x 12.7	9.50
127 x 254 x 9.5 x 9.5	9.00
152 x 305 x 12.7 x 12.7	14.30



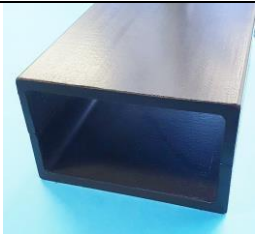
SC-R H-Beam

Dimensions (mm) X B X T1X T2	A	WEIGHT (Kg/m)
76 x 76 x 6.4 x 6.4		2.67
102 x 102 x 6.4 x 6.4		3.59
152 x 152 x 9.5 x 9.5		8.10
203 x 203 x 12.7 x 12.7		14.36
254 x 254 x 12.7 x 12.7		18.04
305 x 305 x 12.7 x 12.7		21.50



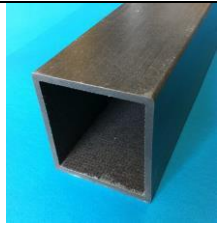
SC-R Rectangular Hollow Section (RHS)

Dimensions (mm) A X B X T1X T2	WEIGHT (Kg/m)
80 x 30 x 4.0 x 4.0	1.60
102 x 51 x 6.4 x 6.4	3.45
140 x 30 x 5.0 x 5.0	3.20



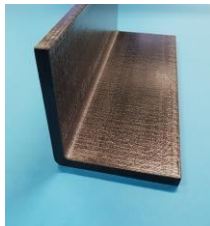
SC-R Square Hollow Section (SHS)

Dimensions (mm) A X B X T1X T2	WEIGHT (Kg/m)
44 X 44 X 3.2 X 3.2	1.01
50 X 50 X 5.0 X 5.0	1.74
50 x 50 x 6.4 x 6.4	2.12
76 X 76 X 6.4 X 6.4	3.39
101 X 101 X 6.4 X 6.4	4.61
152 X 152 X 9.5 X 9.5	10.4



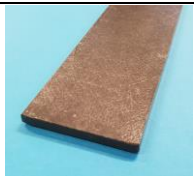
SC-R -Angle

DIMENSIONS A X B X T1 X T2	WEIGHT (Kg/M)
50 x 50 x 6.4 x 6.4	1.14
76 x 76 x 6.4 x 6.4	1.77
76 x 76 x 9.5 x 9.5	2.57
101 x 101 x 9.5 x 9.5	3.48
101 x 101 x 12.7 x 12.7	4.57
152 x 152 x 12.7 x 12.7	7.01
100 x 50 x 6.4 x 6.4	1.80
180 x 80 x 8.0 x 8.0	3.89



SC-R -Flat Bar

Dimensions (mm) W x T	WEIGHT (Kg/m)
64 x 4.8	0.60
102 x 6.4	1.30




SC-R – C Channel

Dimensions (mm) A X B X T1X T2	WEIGHT (Kg/m)
102 x 44 x 6.4 x 6.4	2.10
120 x 50 x 5.0 x 5.0	2.00
152 x 42 x 9.5 x 9.5	3.95
203 x 56 x 9.5 x 9.5	5.34
254 x 70 x 12.7 x 12.7	8.90
292 x 70 x 12.7 x 12.7	9.60
76 x 38 x 6.4 x 6.4	1.70



SC-R –Round Tube

Dimensions (mm) D x T	WEIGHT (Kg/m)
Round Tube	
32 x 6.0	0.96
50 x 5.0	1.34
101 x 6.4	3.64
Corrugated Tube	
50 x 6.35	1.75



Typical Coupon Properties – FRP Structural Profiles

Mechanical Properties	
Tensile Strength	250MPa
Tensile Modulus	18GPa
Compressive Strength	250MPa
Flexural Strength	250MPa
Flexural Strength	13MPa
Modulus of Elasticity	23GPa

Physical Properties	
Barcol Hardness	46
24 hour water absorption	0.45%
Thermal Conductivity	0.57W/mk
Thermal Expansion	8.0×10^{-6} cm/cm/°C

Electrical Properties	
ARC Resistance	120 seconds
Dielectric Strength	1.37KV/mm
Dielectric Constant	5 @ 60hz
Insulation Resistance	$5 \times 10^6 \Omega$

The above values are based on ASTM coupon and Full Section Testing. Please contact us for full list of coupon properties test results.

SC-R Structural Frame Examples

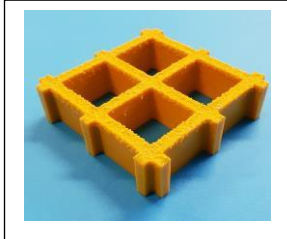


SC-R Moulded Grating & Top Cover Grating.

SC-R moulded grating provide excellent corrosion resistance as well as bi-directional strength. They are light weight with high load strength and offer low maintenance, long service life. The below grating together with SC-R structural shapes can combine into resilient, safe and versatile access structures.

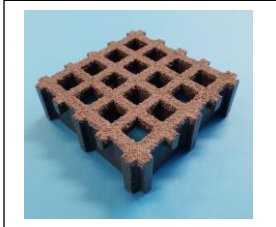
SC-R 38 x 38 square mesh

Aperture 31 x 31mm, for standard 25 or 38mm thick.



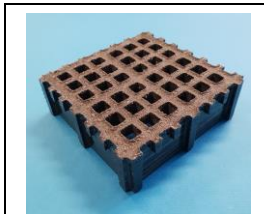
SC-R mini mesh

Aperture 12 x 12m, for standard 30 or 38mm thick



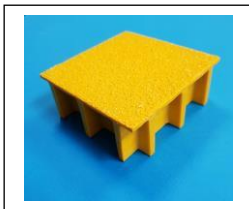
SC-R micro mesh

Aperture 8 x 8mm, for standard 30 or 38mm thick



SC-R top cover

Grating 38 x 38 square mesh with bonded 3 or 5mm thick solid top cover.



The items above represent a selection of the most popular grates. A number of other sizes are readily available or special sizes can be made to order.

SC-R 38 X 38 SQUARE MESH

Panel Thickness	Bar Thickness (Top/Bottom)	Open Rate	Standard Panel Size	Wt./Sq.M
13	5.8/5.0	87%	1220x3660, 1220x2440	6.00Kgs
25	6.5/5.0	68%	1220x3660, 1220x2440	12.30Kgs
38	7.0/5.0	68%	1220x3660, 1220x2440	19.50Kgs
50H	9.5/7.5	56%	1000x 990, 1230x3666	42.00Kgs

SC-R 20 X 20 MINI MESH

Panel Thickness	Bar Thickness (Top/Bottom)	Open Rate	Standard Panel Size	Wt./Sq.M
14	6.5/5.0	42%	1247X4047	10.30Kgs
30	6.5/5.0	42%	1007x3007, 1247x4047	18.03Kgs
38	7.0/5.0	42%	1007x3007, 1247x4047	23.20kg

SC-R 13 x 13 Micro Mesh

Panel Thickness	Bar Thickness (Top/Bottom)	Open Rate	Standard Panel Size	Wt./Sq.M
25	6.5/4.5/5.0	30%	1007 x 3007, 1247 x 4047	17.8kg
30	6.5/4.5/5.0	30%	1007 x 3007, 1247 x 4047	19.1kg
38	6.5/4.5/5.0	30%	1007 x 3007, 1247 x 4047	23.8kg

SC-R Solid Top Cover Grating

Panel Thickness	Grate + Solid Plate
28	38 x38 sq mesh, 25mm thick +3mm solid plate
30	38 x38 sq mesh, 25mm thick +5mm solid plate
41	38 x38 sq mesh, 38mm thick +3mm solid plate
55	38 x38 sq mesh, 50mm thick +5mm solid plate

SC-R solid top cover grating are usually made to measure. Please contact Staircare with your requirements.

Staircare Australia Pty Ltd

2/84 Old Pittwater Road, Brookvale NSW 2100, Australia Telephone: +61 (2) 9939 3838

Website: www.staircare.com.au Email:- info@staircare.com.au

