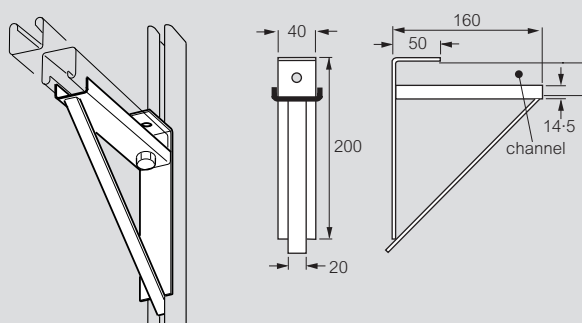


Swiftrack® channel support system

cantilever arms (continued)

■ Dimensions and weights (continued)

Cantilever arm bracket SA 756



Horizontal arm section from 3 mm steel only
Weight each (kg) : 1.13

Weights

All weights given are in kilograms (kg) based on nominal thickness and standard finish

Loads

Maximum uniformly distributed loads for individual cantilever arms are given with the illustrations in this catalogue. However, should the loading not be uniform then the safe limit can be obtained by calculating the bending moment produced by the intended loads and comparing this with the maximum permissible bending moment for the relevant arm

45 kgf.m for SA750 – SA755 and SA757

52 kgf.m for SA760 – SA766

95 kgf.m for SA770 – SA776

To obtain the bending moment resulting from any point load, multiply the size of the load by its distance from the inner end of the arm (see illustration A)

If several point loads exist then the total bending moment will be the sum of the individual bending moment produced by each point load (see illustration B)

If some part of the total load applied to an arm is uniformly distributed along a section of the arm only, then this part load can be treated as a point load acting at the mid-point of that section of arm to which it is applied (see illustration C)

Illustration A

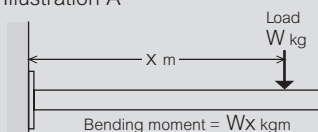


Illustration B

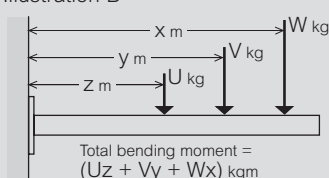
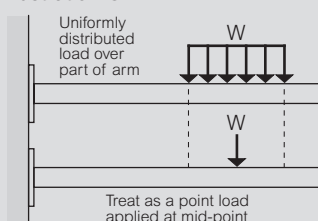


Illustration C



Values assume the tray or other loading medium is rigidly fixed to cantilever arm

Stainless steel cantilever arms

Loads are 60% of those given in the tables, except for those marked 3, in the tables opposite, where the limit is 50%

■ Finishes and standards

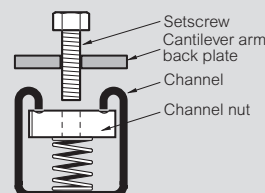
The standard finish for all cantilever arms is hot dip galvanised steel to BS EN ISO 1461

Stainless steel to BS EN 10088 : Grade 1.4404 (equivalent to S316L31) is also available as an alternative where applicable

■ Assembly

Fasteners (not included)

Cantilever arms to Swiftrack channel



Standard fasteners for Swiftrack are high tensile hexagon head setscrews to BS 3692-8.8, these being zinc plated to BS 3382: Part 2. Most standard Swiftrack brackets are made from 5 or 6 mm gauge steel. Standard cantilever arm backplates are made from 8 mm gauge steel. The use of too long a fastener will prevent proper tightening because the bolt end will foul the bottom of the channel before the head tightens down on the fitting.

When fastening brackets other than Swiftrack, longer bolts may be required if the bracket thickness is greater than 8 mm

Channel type	Backplate thickness	Recommended fasteners
Deep channel SC400 series	6-8 mm 5-6 mm	M10 or M12 x 35 M10 or M12 x 25
Shallow channel SC200 series	7-8 mm 5-6 mm	M10 or M12 x 25 M10 or M12 x 20