

SQ SERIES HEAD BOX

The BC45 series head box material is a two-part aluminium roll formed section designed to completely enclose the working parts of the shutter. The shutter curtain (slat) is concealed in the head box when in the UP position and for this reason we have four sizes of head box. The box has two roll formed sections (Top Plate and Bottom Plate), that are fitted together with a pair of cast aluminium End Plates.

Technical Specifications.

Head Box Sizes Available: 150mm, 165mm, 180mm and 205mm.

Base Material.

Aluminium Alloy: 5005
Temper: H46
Thickness: 0.9 mm
Strip Width: Various widths dependent on box size.

Coating.

The base material has a two-coat system of primer plus topcoat, which is based on binders of polyester and melamine.

Type: Modified Polyester.
Pre Treatment: Hot sulphuric acid with alternating current, anodizing a coating thickness of max. 0.10 microns of aluminium oxide.
Primer: Specially formulated flexible primer with a nominal film thickness of 5 microns.
Top Coat: Polyester with a nominal thickness of 20 microns.
Testing: The coated aluminium is tested using various devices such as a Spectrophotometer and a Specular Gloss Meter, according to ISO 6270 standards. The standard periodic tests on this material are Colour Test, Gloss Test, Pencil Hardness, Erichsen (indentation test), Impact Resistance, and Bending, Salt Spray, Humidity Resistance, Weather -O – Meter and the Natural Weathering Resistance test.

Mechanical Properties.

The BC45 boxing material has excellent corrosion resistance due to the high-grade aluminium alloy used and the exceptional coating qualities. The shape of the box is designed to be aesthetically pleasing while maintaining a highly functional purpose.

Due to the strength of the shape and the lightness of the aluminium, the box will not bend over its own weight. Unlike steel boxing, the cut edges are protected by the corrosion resistant properties of the aluminium. The cast aluminium end plates are fitted using aluminium rivets, therefore offering the best resistance to galvanic corrosion or electrolysis, caused by using dissimilar metals.

Manufacturing Length: 5.8 metres.

Pack Size: 5 lengths to a pack.

