

STATIC CLADDED RACKS FOR INDUSTRIAL BATTERIES

1.0 SUPPORT FRAMES

1.1 MATERIALS

Support frames are manufactured from square and rectangular hollow section steel with a wall thickness ranging from 1.5mm to 3mm. Tubing for high yield strength requirements will comply with BS EN 10113: 1993: Part 1. Tubing for lower yield strength requirements will comply with BS6323 Part 5: 1982 ERW1.

1.2 SURFACE TREATMENT

Where required, the material will be pickled prior to processing. All material will be washed and phosphate treated prior to surface coating.

1.3 COATING

Frames are coated with epoxy/polyester. The standard colour specified is RAL7035 (Light Grey). Minimum thickness specified is 70µm. (See NTS02 for details)

1.4 ELECTRICAL

Electrical continuity through the rack structure is achieved by the use of star washers. No main earth point is supplied unless specifically requested.

2.0 RUNNERS (SUPPORT BEAMS)

2.1 MATERIALS

Runners are manufactured from square hollow section steel with a wall thickness of 1.5mm. Tubing will comply with BS6323 Part 5: 1982 ERW1.

2.2 SURFACE TREATMENT

All material will be washed and phosphate treated prior to surface coating.

2.3 LOADING CAPACITY

The load bearing capacity of a runner is defined by the calculated deflection at its midpoint. Maximum deflection allowed is 0.6mm.

2.4 COATING

Runners are coated with epoxy/polyester. The standard colour specified is RAL7035 (Light Grey). Minimum thickness specified is 70µm. (See NTS02 for details)

3.0 BRACES

3.1 MATERIALS

Braces are manufactured from flat steel strip 25mm wide x 5mm thick. Strip material will comply with BS EN 10113: 1983: Part 1.

3.2 SURFACE TREATMENT

The material will be pickled prior to processing. All material will be washed and phosphate treated prior to surface coating.

STATIC CLADDED RACKS FOR INDUSTRIAL BATTERIES

3.3 COATING

Braces are coated with epoxy/polyester. The standard colour specified is RAL7035 (Light Grey). Minimum thickness specified is 70µm. (See NTS02 for details)

4.0 PANELWORK & MOUNTING BRACKETS

4.1 MATERIALS

Panels are manufactured from 1.2mm cold reduced steel sheet in accordance with BS1449: Part 1: 1983, Grade 4. Panel mounting brackets are manufactured from 2mm hot rolled steel sheet in accordance with BS1449: Part1: 1983, Grade 4.

4.2 SURFACE TREATMENT

Where require (hot rolled) the material will be pickled prior to processing. All material will be washed and phosphate treated prior to surface coating.

4.3 ELECTRICAL

All external panelwork will be fitted with a welded earthing point. A suitable cable connector will be supplied with each panel to ensure all exterior parts can be effectively earthed.

4.5 SECURITY

As standard, panels are designed to be secured by M6 screwed fixings. At extra cost, they can be supplied with key operated locks for enhanced security.

4.4 COATING

Panels and mounting brackets are coated with epoxy/polyester. The standard colour specified is RAL7035 (Light Grey). Minimum thickness specified is 70µm. (See NTS02 for details)

5.0 FASTENERS

5.1 MATERIALS

All male fasteners will comply with BS3692 or DIN931 and will be grade 8.8. All female fasteners will comply with DIN934 and will be grade 8.

5.2 COATING

All fasteners are to be supplied in a Bright Zinc Plate condition.

5.3 TORQUE SETTINGS

All fasteners should be torqued to the following figures on rack assembly.

M6	10Nm
M8	23Nm
M10	32Nm

STATIC CLADDED RACKS FOR INDUSTRIAL BATTERIES**6.0 ADJUSTABLE FEET****6.1 MATERIALS**

Adjustable feet are injection moulded from polypropylene. The embedded adjusting screw complies with section 4.0 above.

6.2 STRENGTH

The maximum load capacity is 300Kg for a Ø50mm foot and 700Kg for a Ø75mm foot.