

## STATIC 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. The standard colour specified is RAL9011 (Satin Black). Minimum thickness specified is 70µm. (See NTS02 for details)

### 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. The standard colour specified is RAL9011 (Satin Black). 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 RACKS FOR INDUSTRIAL BATTERIES

### 3.3 COATING

Braces are coated with epoxy. The standard colour specified is RAL9011 (Satin Black). Minimum thickness specified is 70µm. (See NTS02 for details)

## 4.0 FASTENERS

### 4.1 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.

### 4.2 COATING

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

### 4.3 TORQUE SETTINGS

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

M6	10Nm
M8	18Nm
M10	32Nm

## 5.0 ADJUSTABLE FEET

### 5.1 MATERIALS

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

### 4.2 STRENGTH

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