



## **General Characteristics of Firefly panel radiators.**

### **Steel and Production**

Firefly panel radiators are produced in accordance with the internationally accepted EN 442 & BS EN ISO 9001 standard.

Cold rolled steel conforming to EN 1013 is used in the production. Surface treatment and painting processes take place in accordance with DIN 55900-1 standard. Steel thickness used in panel radiator product is:

Panel production: 1.20 plus/minus 0.09 mm

Fin production: 0.45 plus/minus 0.05 mm

Top and side covers: 0.75 plus/minus 0.09 mm

The fins are welded on top of 33.33 mm pitched water channels to provide high heat output performance.

Every radiator is pressure tested following production.

Radiator test pressure : Maximum 13 bar,

Radiator working pressure: Maximum 10 bar.,

Maximum working temperature: 95 degrees.

### **Surface Treatment and Painting**

All radiators are applied with surface treatment before they are painted.

The surface treatment process includes 3 stages

1. Degreasing @ 55-65 degrees C
2. Phosphating @ 55-65 degrees C & pH=4.8-5.5
3. Three step rinsing process at various conductivity levels