



## Stelrad LST radiators

### Utilising RADECOL® high-strength steel

**Product:** RADECOL®

**Client:** Stelrad Ltd.

**Project summary:**

Stelrad Low Surface Temperature (LST) radiators, a safe, efficient solution in public buildings across the country

**Stelrad Low Surface Temperature radiators**

Tata Steel's high quality, lightweight RADECOL product for steel panel radiators is integral to the success of the Stelrad's Low Surface Temperature (LST) radiators, enabling a high production yield and making the finished radiators long-lasting and easy to install. LST radiators have proved to be a perfect fit at a new health and fitness centre in Wales, close to the Tata steelworks where RADECOL is cast, hot-rolled and cold-rolled.

**Background**

RADECOL is a family of cold-rolled steel products that are tailor-made for radiator panels. The improved shape consistency and high strength enables manufacturers to use thinner steel to produce lightweight radiators and improve material yield.

RADECOL is available in three grades of increasing strength, and in a wide range of

dimensions. All grades and thicknesses are rolled on Tata Steel's continuous annealing processing line in Port Talbot, Wales, which delivers homogeneous steel with consistent surface quality, tight thickness tolerances and exceptional flatness. The reliable quality makes RADECOL ideal for trouble-free, repeatable processing.

**Stelrad radiators**

Stelrad has been making radiators since 1936. It is the UK's number one radiator brand, supplying private homes and public buildings, and its innovative LST products lead the market.

LST radiators are especially suited to public buildings and facilities where young, elderly and vulnerable people gather. Stelrad manufactures the UK's largest range of LST products, which combine a level of safety with efficient heat distribution.



LST radiators are increasingly being specified for projects where there is a need to meet the NHS guidance for safe hot water and surface temperature, and provide as much protection as possible to those for whom they are designed to provide heating – ensuring that the casing never exceeds 43°C and their design includes rounded corners and edges to avoid potential soft tissue damage from sharp edges.

Stelrad uses Tata Steel's RADECOL to manufacture LST radiators. The steel's lightweight ensures that the finished LST radiators are easy to fit, while the strong, highly consistent source material results in less waste during manufacturing, improving the sustainability of the finished product and reducing cost. A coating on the steel helps to ensure the radiators' long life.

For Stelrad it is essential that the materials used are the best for each individual radiator manufactured, with emphasis on ensuring that the materials contribute to the quality of the products.

#### **Aberavon Leisure and Fitness Centre**

The Aberavon Leisure and Fitness Centre, which opened in 2016, houses a 25m swimming pool and a host of fitness and 'dry side' leisure facilities under one roof. The centre was commissioned by the local Neath and Port Talbot County Borough Council to replace

**"RADECOL® has proven to be the ideal material for our LST radiators and as a UK business we are proud that again we are using UK manufactured raw materials to make our products with a sustainable supply chain"**

*David Taylor, Stelrad's Director of Operations*

swimming baths that burned down in a major fire in 2009.

Located just four miles from the Tata Steel steelworks in Port Talbot, South Wales, the Aberavon centre is one of the latest public facilities to benefit from Stelrad's LST radiators.

#### **LST installation**

The mechanical and electrical contractor at the Aberavon site, F P Hurley and Sons Ltd. installed around 50 Stelrad LST radiators in various sizes and outputs, in changing rooms and toilets, corridors and offices around the beachside building.

Jonathan Hyde oversaw the installation of the heating system for F P Hurley. He said: "We have worked with Stelrad radiators previously in a number of projects and recognise the quality of the products and the ease of installation that comes with them."

It is particularly fitting that high quality RADECOL steel, which is cast, hot-rolled and cold-rolled in the nearby Tata Steel facility, has been used in the manufacture of the Stelrad LST radiators that heat the new leisure centre.

#### **Summary**

UK-produced RADECOL from Tata Steel is instrumental in the Stelrad LST radiators that are proving to be a safe, efficient solution in public buildings across the country. Aside from the Aberavon Leisure and Fitness Centre, they have also been fitted in sheltered housing schemes, schools, nurseries and care and nursing homes.

RADECOL is backed by support from Tata Steel's Customer Technical Services (CTS) team. This knowledgeable and proactive team offers technical consultancy and practical hands-on support, to enable customers such as Stelrad to get the best from the advanced RADECOL products.

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