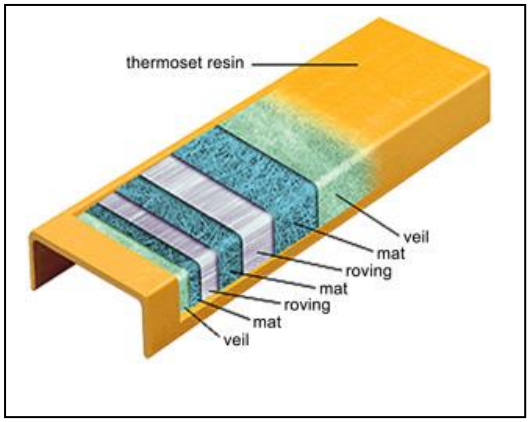
Staircare SC-R FRP Material Description

What are FRP Components?

Staircare (FRP) components including handrail stanchions, top rails and structural shapes are manufactured using the well proven pultrusion process. Multi directional glass mats and continuous fibre roving as well as a synthetic veil are drawn through a resin bath that also contains the required colour pigments and is then pulled through a heated die to form the desired shape. The process creates an exceptional composite material with colour throughout, excellent corrosion resistance and UV inhibitors in the resin matrix and synthetic surfacing veil.



The above sketch and photo shows fibreglass strands and veil being pulled through the coloured resin mix as part of the FRP construction process.

Corrosion Resistance

Staircare SC-R FRP railings, structural shapes and grating have exceptional corrosion resistance to a wide variety of chemical and petrochemical spillage, saltwater, fume and fire resistance making the products ideal for use in the harshest environments.

Life Time Cost

Staircare FRP materials provide significantly longer life expectancy, durability and corrosion resistance in demanding applications. The resin and colour pigment mix in combination with UV inhibitors ensures that colour is throughout the materials, requiring no or very little painting maintenance, adding to a long service life.

Electrical and Thermal Non Conductivity

SC-R fibreglass is electrically non-conductive providing safety benefits for installation in electrical substations or mitigate situations with stray current issues to reduce step and touch voltage hazards. Low thermal conductivity makes for a comfortable material to work with that can also be a safety feature. Unlike metals FRP products do not contract or expand.

UV Protection

UV inhibitors are mixed into the resin and also into a synthetic veil that is incorporated on the surface, ensuring optimum protection from UV radiation and the harsh outdoors. An optional UV coating can be applied for products with extreme UV exposure, such as off-shore platforms etc.

Environmental Impact

Staircare SC-R pultruded and moulded FRP manufacture produces less greenhouse gas and consumes less energy compared with alternative materials such as steel and aluminium. FRP materials do not corrode or deteriorate and offer a very long service life and can be recycled

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