



complete
composite
systems

TouchSAFE Composite Palisade Fencing

Made to offer a strong, safe, and non-conductive fence to rail industry customers that need a robust barrier to screen electrical hazards or enclose electrical equipment

- Ideal for protecting the likes of LOC suites, substations & OLE masts
- FRP (fibreglass-reinforced polymer) construction releases fewer carbon emissions into the atmosphere than traditional metal fencing
- Engineered plastic fixings hold the interlocked pales and cross rails to create a robust, structurally sound panel
- Lightweight in comparison to steel alternatives
- Zero metal parts and corrosion resistant
- Delivered in full panels, reducing installation time
- Developed to provide a greater resistance to vandals

Complete Composite Systems



TouchSAFE Composite Palisade Fencing

TouchSAFE FRP Composite Palisade Fencing offers a strong, non-conductive barrier for the secure containment of electrical equipment.

The panels are manufactured from pultruded profiles, with pales and cross rails that are interlocked to form a robust, long-lasting structure. There is no need for maintenance and less chance of damage from potential vandalism incidents, with pales passing through the rails to reduce the risk of prising apart.

As composites are natural electrical insulants, the fencing provides a non-conductive boundary for the safe housing of electrical equipment on rail applications such as substations, LOC suites, and OLE masts.

Delivered in full panels to reduce installation time, all fixings are comprised of engineered plastic

so earthing is not required. The fencing is also lightweight and corrosion resistant against most oils, acids and alkaline chemicals. TouchSAFE is produced with UV inhibitors within the resin and finished with a UV-resistant synthetic polyester veil that encapsulates the profile's reinforcement pack to add further protection against the elements.

Key Benefits:

- Strong panels produced using pultruded profiles conforming to EN13706 grade E23
- Lightweight – 75% lighter than steel
- Maintenance free
- No metallic fixings
- EMI & RFI transparent
- Electrically insulating
- Supplied fully assembled, enabling large expanses of fencing to be installed quickly and easily
- Made with a resin that is corrosion resistant, fire retardant, and protects against UV rays
- Outer surface of the profiles is coated with a polyester surface veil for long-lasting strength in all weather conditions
- Available in light grey or leaf green

Materials and Performance

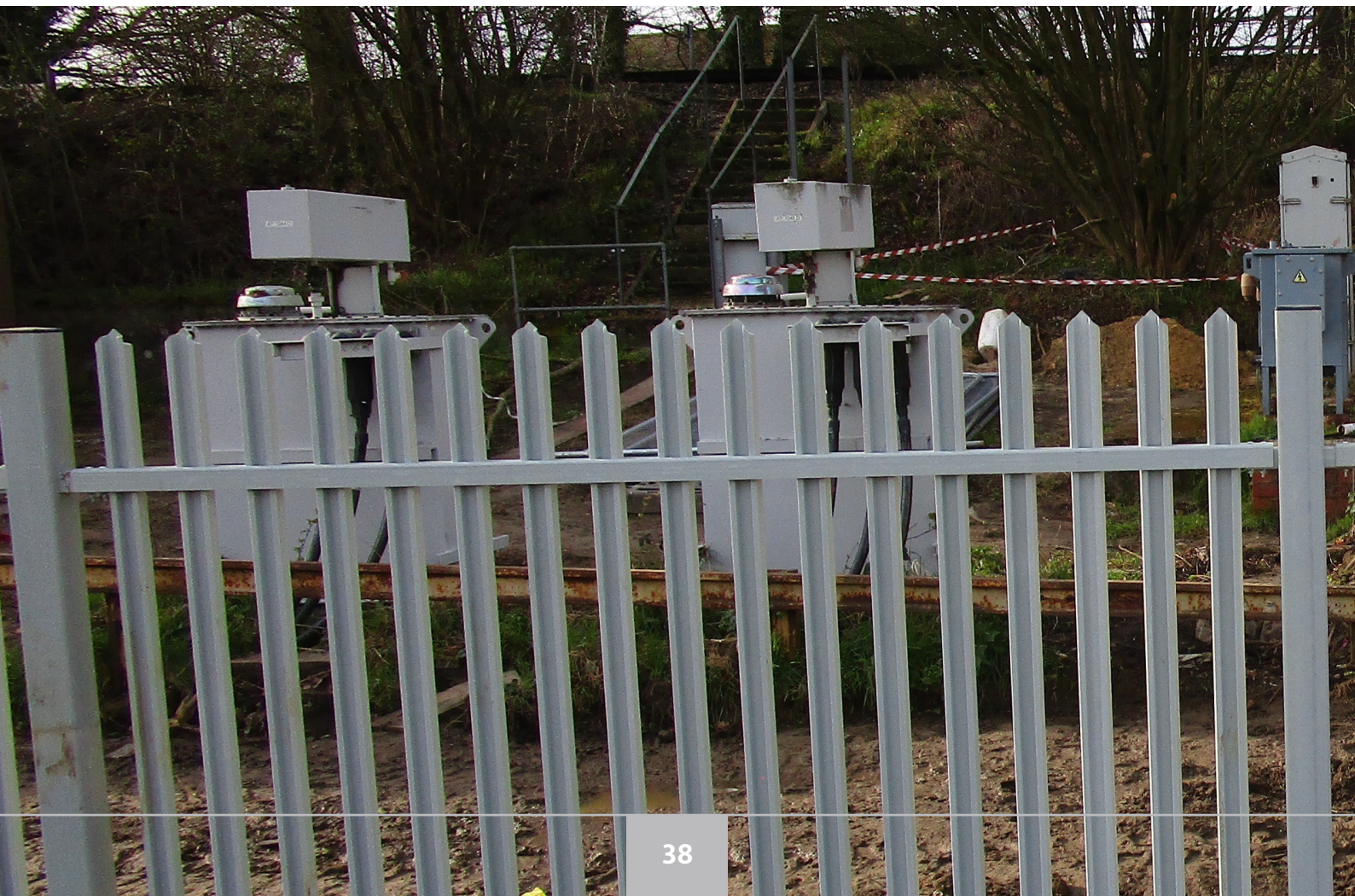
TouchSAFE Composite Palisade Fencing is manufactured from FRP (fibreglass-reinforced polymers) and secured with high-strength polypropylene dowel fixings. The panels are free of any metallic fixings, meaning there is no

need for maintenance and less chance of hazardous incidents. As composites are natural electrical insulants, TouchSAFE provides a non-conductive border to protect electrical equipment.

TouchSAFE Palisade Fencing complies dimensionally to BS 1722 part 12: 2016, but as yet the standard makes no provision for

materials of construction other than steel.

The panels are engineered from isophthalic polyester pultruded profiles. In highly corrosive environments, UV-inhibited vinyl ester can be selected as the most appropriate resin system, modified with fire retardants, where needed. As with all TouchSAFE profiles,



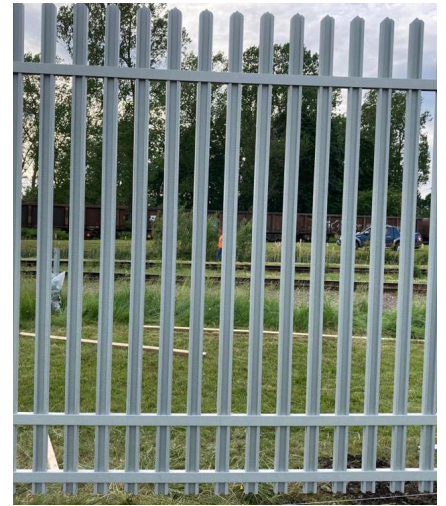
the reinforcement pack is encapsulated within a polyester surface veil for excellent durability in all weathers.

Pre-assembled TouchSAFE Fence Panels are available in three standard heights. Fabricated using a strong, rigid 72mm-wide wave profile pale, the standard width of a TouchSAFE panel is 2700mm. Matching single-leaf gates are also available in the standard heights of 1800mm, 2400mm and 3000mm. Double-leaf gates can be supplied to order.

Drawings of the complete TouchSAFE system are available on demand, together with reports on mechanical performance and sustainability. Information such as a parts list detailing product descriptions, sizes, dimensions, and the resin systems used, is also available by contacting the team at Complete Composite Systems.

Environmental Benefits

TouchSAFE Palisade Fencing offers environmental benefits, providing a lower carbon footprint than traditional metal fencing. Reports describing the life-cycle analysis and environmental impact of TouchSAFE are available on request. The reduction in environmental impact can be further enhanced by using TECHNO-CRETE® as a replacement for concrete post mix if using buried fence posts during installation.



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