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Track & Infrastructure

Complete Composite Systems (CCS)

A new 'ClickFit' bracket design has been introduced to make ARCOSYSTEM® cable troughing even easier to install along railway lines — especially when working in tight spaces.

If you need your rail cabling securely contained but are faced with restricted trackside access or limited attachment options along the route, then the latest addition to our ARCOSYSTEM® range of specialist bracketry could be just what's required to complete your job smoothly and safely.

The innovative ClickFit brackets are designed with a powerful spring effect, allowing the troughing cells to be simply clicked into place with a satisfying snap.



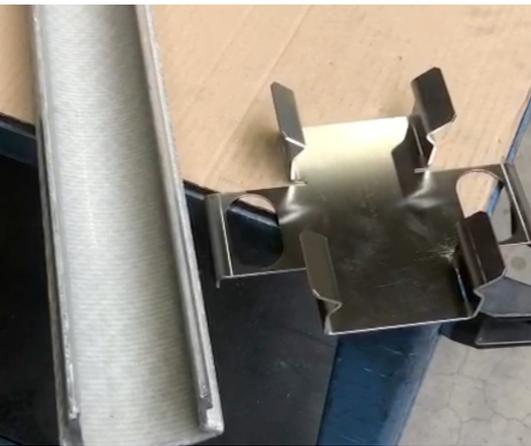
The new ClickFit brackets used here in conjunction with rock bolts to attach ARCOSYSTEM® troughing to a rock face



The run of troughing attached to the rock face with the aid of ClickFit brackets

These new brackets were recently used for a job that required cable troughing to be fitted to a rock face slanted at an awkward angle of approximately 45°. The ClickFit design ensured the troughing could be clicked into the brackets — which were fixed to rock bolts clamped into the rock face itself — with ease, as opposed to the on-site operatives struggling to slide the troughs into the shoes of the brackets. This resulted in a much quicker, easier, and safer install, especially with the operatives working on slippy, sloping ground.

The lightweight and versatile ARCOSYSTEM® is the rail industry's benchmark elevated cable management system, offering unrivalled durability in all weathers. The troughs and lids are made from pultruded fibre-reinforced polymers (FRP/GRP) for excellent structural and load-bearing performance, and are supported by the bespoke range of laser-cut galvanised steel bracketry.



A ClickFit bracket ready to receive a cable troughing cell



Slotting the troughing into place, activating the bracket to 'click' shut



ARCOSYSTEM® installed using specially designed Anchor Screws instead of in-situ posts

The fitting of ARCOSYSTEM® has also been made quicker and easier with the development of the 'Rapid Route' installation technique. Conceived in partnership with Anchor Systems International Ltd, Rapid Route uses a foundation system that replaces the need to excavate and use cast in-situ posts to support the troughing. Instead, Anchor's patented Anchor Screws are driven into the ground, and the domed connections between the troughing and the screws allow for alignment correction that ensures an accurate first-time installation.

Key benefits of ARCOSYSTEM®

- Can be post-mounted (spanning as far as 6m between support posts), wall-hung or fixed to trackside structures such as railings, bridges, noise barriers, rock faces or hillside slopes
- Composite construction means the system is resistant to heat, water, corrosion, UV rays and a wide range of chemicals
- Constant working temperature range from -40°C to +80°C, excelling in locations subject to intense heat or extreme freeze-thaw cycles
- Flexible bracketry enables height and direction changes to be accommodated with ease
- Twin-walled design of the troughing enables the system to resist lateral forces from embankment subsidence, high snow loads and wind effects from high-speed trains
- Carries cable loads of up to 90kg/m and is electrically insulating, suitable for HV use

Contact the experienced **technical experts at Complete Composite Systems**, the exclusive UK distributor of ARCOSYSTEM®, for enquiries about your rail cable containment requirements.

Complete Composite Systems Ltd



503 Broadway, Letchworth, Hertfordshire, SG6 3PT
Tel: +44 1462 379000 or +44 7860 147863
Email: info@completecomposites.co.uk

The exclusive UK rail stockist of ARCOSYSTEM® is Scott Parnell:



Scott Parnell Rail Division

Asheton Farm Business Centre, Stapleford Abbots,
RM4 1JU
Tel: +44 208 8055797
Email: rail@scottparnell.com

ARCOSYSTEM® is manufactured by CCS's Swiss partners, **Castioni Kabelführungssysteme GmbH**



ARCOSYSTEM® — The Rail Industry's Benchmark Elevated Cable Management System



The flexible ARCOSYSTEM® troughing can be easily adjusted for height and directional changes during a long run



The composite troughing can be fastened to a variety of trackside structures, such as ballast boards and railings here during an installation in Germany's Black Forest



The lightweight construction of the troughing allows ARCOSYSTEM® to be fitted to hillside slopes



The twin-walled design of the troughing enables the system to resist lateral forces such as wind effects from high-speed trains

UK distributor:

Complete Composite Systems Ltd
503 Broadway, Letchworth,
Hertfordshire, SG6 3PT
T: +44 1462 379000
E: info@completecomposites.co.uk
W: www.completecomposites.co.uk



UK stockist:

Scott Parnell Rail Division,
Asheton Farm Business Centre,
Stapleford Abbots, RM4 1JU
T: +44 208 8055797
E: rail@scottparnell.com
W: www.scottparnell.com/rail

ARCOSYSTEM® is manufactured by:

