



ENVIROMESH[®]

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CLADDING TO SHEET PILES



Although steel sheet piling may be necessary in many situations for the purpose of soil retention, they may not always be visually acceptable. To improve upon their aesthetics a nominal thickness of gabions up to 300mm deep typically founded on concrete and in lifts of no greater than 675mm high have previously and successfully been fixed to steel sheet piles to provide the appearance of that of a natural stone finish. In all instances, design advice should be sought from a suitably qualified structural engineer prior to installation.

DELIVERY

The gabion baskets can be supplied in either panels or semi-assembled at the manufacturing stage in readiness for on-site fabrication. The preferred method of supply, installation and stone choice should always be discussed prior to procurement of materials.

FIXINGS TO PILES

Various methods have previously been used to fix gabions back to steel sheet piles. For advice and information on this please contact the technical team at Enviromesh.

TECHNICAL SPECIFICATIONS

- Mesh Aperture: 75mm x 75mm
- Wire Diameter: 4mm or 5mm
- Fabric Type: Bi-Axial Welded Mesh
- Corrosion Protection: Galvan (95% Zn/5%Al)
- Wire Tensile: 540 to 770 N/mm²
- Weld Strength: 75% of the minimum ultimate tensile strength of the wire
- BS EN 10218-2:2012: Steel wire and wire products (general wire dimensions and tolerances)
- BS EN 10244-2:2009 (Class A): Zinc and zinc alloy coatings on steel wire

For advice on the suitability of using other wire diameters and corrosion protection please speak to the Enviromesh sales office directly.



CASE STUDY - TRAVELODGE @ GRAVESEND

In November 2017 we completed the installation of gabion cladding to steel sheet piles at the new Travelodge hotel site in Gravesend, Kent. The reason for including the gabion cladding came about as a result of the planning authority including a proviso that the finished appearance of the steel sheet piles would need to be dressed with a suitable material, as a precondition of granting approval for the new hotel.

The client specified that they wanted visually contrasting bands running horizontally throughout the wall. This was met by using both Leicester Granite and Kent Ragstone 6G Gabion stone on alternating courses to meet the project requirements.



BEFORE



DURING



AFTER



ENVIROMESH®

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