Transversal connections on rubble masonry using composite material bars

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APPLICATION DATA SHEET

Transversal connections on rubble masonry using composite material bars through:

1. drilling of holes;
2. insertion of bars, grouting and pointing.

1) DRILLING OF HOLES

Drilling of pilot holes on either side of the crack, with a suitable slope (such as to avoid the slipping off of bars), to be carried out in compact areas of the masonry, for a depth equal to or greater than the length of the bar and in the number planned by the project. The holes will be made with a diameter 2-4 mm bigger than the one of the bar and will be sloped alternately upwards and downwards with a pattern studied in the design phase.

2) INSERTION OF BARS, GROUTING AND POINTING

Insert the pultruded bar **Kimitech TONDO CB**. Then grout with two-component fluid epoxy resin **Kimitech EP-IN**. Once the bars have been inserted, fill the hole with suitable resins from the Kimtech line or mortars from the Betonfix, Limepor or Tectoria lines.

POSSIBLE ALTERNATIVES

*As an alternative to carbon pultruded bar **Kimitech TONDO CB**, it is possible to use pultruded fiberglass bar **Kimitech TONDO VR**.*
*In the case of overhead and small depth applications it is possible to grout the bars with two-component epoxy resin in cartridge **Kimitech EPOXY CTR**.*