

## Restoration of degraded wooden beams in correspondence of the contact point with the masonry

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### APPLICATION DATA SHEET

Restoration of degraded wooden beams in correspondence of the contact point with the masonry by:

1. **demolition of the damaged parts;**
2. **insertion of synthetic reinforcement bars;**
3. **carrying out of the collaborative epoxy casting.**

#### 1) DEMOLITION OF THE DAMAGED PARTS

Shoring, where necessary, of the structure, with removal of all the materials found in the intervention areas.

Demolition of the masonry in correspondence with the contact point with the wooden beam and elimination of the damaged parts of the wooden beam.

Anti-mold and anti-woodworm treatment to be carried out by applying single-component synthetic resin by brush or spray on all the wooden parts, after careful removal of dust, greasy substances and all materials that may compromise a perfect anchoring of the resin.

#### 2) INSERTION OF SYNTHETIC REINFORCEMENT BARS

Perforation of the head of the wood beam and accurate blowing of the perforations in order to eliminate any possible residual of inconsistent materials that could compromise the adherence to the wood of the subsequent processing steps. Insertion of 4 bars with full circular section and very high resistance to corrosion **Kimitech TONDO VR**. The section of the bars will be indicated by an accurate static verification of the wooden structure.

Grouting of fiberglass bars by injection, to be carried out with a special gun, of fluid epoxy resin **Kimitech EP-IN**, with excellent structural adherence to the wood and which does not shrink while hardening.

#### 3) CARRYING OUT OF THE COLLABORATIVE EPOXY CASTING

Installation of disposable formwork in wood of the same size as the beam to be restored and pouring of fluid epoxy resin **Kimitech EP-IN** or similar, loaded 1 to 5 with quartz-type aggregates **Kimifill HM**.

Once hardened, restore the previously removed materials.