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6th International Conference on FRP Composites in Civil Engineering, CICE 2012, Rome, Italy; 13 June 2012 through 15 June 2012, Code 115513

### Placement of frp reinforcements in NT vaults by the V.I.S. set up (Conference Paper)

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#### Abstract

In the paper, starting from the theoretical background previously developed by the authors concerning the statics of masonry vaults and aimed at the selection of families of load shapes equilibrated by sets of admissible solutions, a strategy is outlined for identifying the areas of the vault to be reinforced with FRP provisions. As shown in the numerical investigation, higher intensities of the stress state are then allowed by the introduction of the reinforcement and the local relaxation of some of the constraints of the problem is possible.

#### Author keywords

Composites, Constraint relaxation, Masonry vaults, Reinforcement

#### Indexed keywords

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