

Title (en)
MASONRY WITH VERTICAL REINFORCED CONCRETE STRENGTHENING

Title (de)
MAUERWERK MIT VERTIKALER STAHLBETONBEWEHRUNG

Title (fr)
MAÇONNERIE À RENFORCEMENT VERTICAL EN BÉTON ARMÉ

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Application
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Abstract (en)
[origin: WO2009098446A2] A masonry infill in a load bearing structure (18), comprises courses of hollow masonry units (1) arranged to define a cavity (3) extending therethrough filled with reinforced cementitious material e.g. reinforced concrete. A lower end of the concrete reinforcement (2) is secured to a load bearing support (16, Fig. 3). A body (6) is secured to the load bearing structure and receives an upper end of the concrete reinforcement so as to permit longitudinal sliding movement of the reinforcement upper end in the body, whilst constraining movement of the concrete reinforcement in a direction transversely of the infill. The lower end of the reinforcement (2) may be built into the support, or slidably received in a further body (5, Fig.3). Alternatively one or both ends of the reinforcement (2) may terminate in a bond beam. Brackets (9, 9a) may be embedded in the concrete in the cavity (3) to transfer shear forces between the adjacent blockwork and the concrete.

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