

Title (en)
REINFORCED CONCRETE COLUMN AND METHOD FOR MAKING THE SAME

Title (de)
STAHLBETONSÄULE UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)
COLONNE EN BÉTON RENFORCÉ ET SON PROCÉDÉ DE FABRICATION

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Application
EP 15003449 A 20151204

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Abstract (en)
The invention relates to a reinforced concrete column, particularly for halls with a so-called lightweight reinforced concrete framework, comprising an armature made from reinforcing steel and a column body made from concrete encompassing the armature. The reinforced concrete column according to the invention is characterised in that the column consists of a pre-fabricated head portion (2) and a column body (6) joined to the head portion (2); and the column comprises pre-tensioned strands (17) arranged in the column body to conically converge towards a single point in a strand guide (3) disposed in the head portion (2). The method according to the invention comprises the steps of: - in the first step, making the head portion (2) by placing the plug (15) covering the opening of the strand guide (3) on the bottom of the formwork, inserting the armature (16) of the head portion (2) and pulling the strand guide (3) on the plug (15) and pulling injection pipe (13) on the injection stub (12) of the strand guide (3), and then, after closing the formwork, pouring concrete into the formwork in a direction opposite the direction the head portion (2) is built in (or in a horizontal position), and stripping the formwork after the concrete has set; - in the second step, joining the pre-fabricated head portion (2) with the column body (6) of the column (1) by fixing the head portion (2) to a tensioning bed, inserting the armature of the column body (6), utilizing a strand guide (18) disposed at the bottom portion of the column body (1) for passing the strands (17) of the column (1) in a converging manner into the strand guide (3) of the head portion (2), tensioning the strands (17), closing the formwork of the tensioning bed (19), and, by pouring concrete into the formwork, joining the head portion/s and the column body/bodies (6), and, after the concrete has set, stripping the formwork.

IPC 8 full level
E04C 3/34 (2006.01)

CPC (source: EP HU)
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Citation (applicant)
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