

Title (en)

STRUCTURAL ELEMENT AND METHOD FOR PRODUCING A STRUCTURAL ELEMENT

Title (de)

BAUELEMENT UND VERFAHREN ZUR HERSTELLUNG EINES BAUELEMENTS

Title (fr)

ÉLÉMENT DE CONSTRUCTION ET PROCÉDÉ DE FABRICATION D'UN ÉLÉMENT DE CONSTRUCTION

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Application

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Abstract (en)

[origin: WO2013102593A1] The invention relates to a structural element (10) that can be used as a ceiling element or wall element. The structural element (10) has a facing shell (11) and a supporting shell (12) that is at least five times thicker. The facing shell (11) has a first concrete layer (14) with a textile reinforcement (15) arranged therein. The facing shell (11) is free of metal reinforcement elements. The supporting shell (12) has a second concrete layer (16) in which a supporting shell reinforcement (17) is provided, which is formed particularly as a box-grid structure from structural steel elements (18, 19, 20) that are connected to one another. The facing shell (11) is connected to the supporting shell (12) by a plurality of metal-free connecting bodies (24). Each connecting body (24) is formed by a textile grid structure (25) that is shaped as a three-dimensional profile part. The textile grid structure can be produced as a woven fabric, a plait, a nonwoven fabric or a knit from carbon fibres and/or glass fibre threads that have a coating to produce the three-dimensional structure. Each connecting body (24) extends in at least two spatial planes of the three spatial planes in a Cartesian coordinate system.

IPC 8 full level

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