

Title (en)

LIGHTWEIGHT CONSTRUCTION ELEMENT IN THE FORM OF A HOLLOW BODY CONTOURED HONEYCOMB STRUCTURE

Title (de)

LEICHTBAUELEMENT IN FORM EINER HOHLKÖRPERKONTURWABE

Title (fr)

ELEMENT DE CONSTRUCTION LEGER SOUS FORME D'UNE STRUCTURE EN NID D'ABEILLES PROFILEE A CORPS CREUX

Publication

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Application

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Abstract (en)

[origin: WO0073602A1] The invention relates to a lightweight construction element in the form of a hollow body contoured honeycomb structure. The construction component (1) is composed of a plurality of individual layers (2, 3, 4), the medium individual layer (3) being composed of a plurality of additional individual layers (23, 24, 25). The individual layers (2, 4, 23, 24, 25) are configured in such a way that they intermesh and firmly interlock with one another thereby producing or defining surfaces that allow that any forces acting upon the elements or individual layers (2, 4, 23, 24, 25) that make up the construction element (1) are absorbed and evened out. Said elements or layers are capable of absorbing not only pressure or lateral forces but also tensile and transverse forces so that they allow for the production of a construction element (1) of less weight but simultaneously high stability. Said construction element (1) can be shaped or deformed as required and can be also extended three-dimensionally so that it can be adapted to the respective conditions in any plane and direction.

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