

Title (en)  
Building block

Title (de)  
Baustein

Title (fr)  
Bloc de construction

Publication  
**EP 1726732 A1 20061129 (EN)**

Application  
**EP 05460011 A 20050520**

Priority  
EP 05460011 A 20050520

Abstract (en)

A building block, characterized by the fact, that the supporting structure of the block is constituted by repeatable and ramified cavities of basic profile P made inside a thermo insulating insert, filled with supporting material, where said basic profiles having parallel shifted arms A and C, connected by connecting arms B, while said thermo insulating insert is constituted by two halves of identical form having cavities in form of said basic profiles, comprising arms A and C as well as connecting arms B, said insert halves abutting with each other but turned in relation to each other of 180° so that the edge X of first insert half (1) contacts edge Y of said second turned insert half (2) and correspondently, edge Y of first insert half (1) contacts with edge X of second turned insert half (2), while arms A(1) and C(1) of first insert half(1) are connected with arms A(2) and C(2) of said turned second insert half(2), thus constituting through channels filled with supporting material in such a manner that create supporting element of full height of the block while connecting arms B(1) and B(2) of said two halves (1) and (2) of said insert pass by in relation to each other and enter inside the block beginning from its horizontal surfaces and reach up to 0,25 to 0,75 of the block height, while between arms A(1) and A(2) and respectively arms C(1) and C(2) of subsequent basic profile P there are, arranged in one axis, connecting arms D(1) and D(2) of both insert halves, made from said supporting material, penetrating into inside of the block and providing between them room for the thermo insulating material, and, the block has also connecting elements E(1) and E(2), shifted in relation to each other, situated in different axes which can enter into inside of the block at any required depth but not reaching the opposite block base surface. Building block has connecting members connecting parallel fragments of the basic profile which create three dimensional structure of the insert, which has various height less than the height of the through element, and building block has arms B of the profile P and connecting members E of any length, but not reaching the opposite surface. Building block has connecting members D less than half of the block height, and has connecting members E of height shorter than full height of the block. Building block has arms B of profile P as well as connecting members D and E of the internal structure, which have endings in shape of an arc of any radius, and has arms A and C, connected by connecting arm B may form a stylized letter "Z". Building block has repeatable profile P having round or polygon shape bending and endings and the building block can be created by a thermo insulating insert comprising at least one row of basic profile P, formed in any shape, connected with other profiles in any manner.

IPC 8 full level  
**E04C 1/41** (2006.01); **E04B 2/02** (2006.01)

CPC (source: EP)  
**E04C 1/41** (2013.01); **E04B 2002/0293** (2013.01)

Citation (applicant)

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Designated contracting state (EPC)  
DE

Designated extension state (EPC)  
AL BA HR LV MK YU

DOCDB simple family (publication)  
**EP 1726732 A1 20061129**

DOCDB simple family (application)  
**EP 05460011 A 20050520**