

Title (en)

VERTICALLY PERFORATED LIGHTWEIGHT BRICK.

Publication

EP 0599283 A3 19940713 (DE)

Application

EP 93118896 A 19931124

Priority

- DE 4239616 A 19921125
- DE 4305747 A 19930225

Abstract (en)

[origin: US5499478A] The invention proposes a lightweight vertically perforated brick having a perforation pattern comprising perforations which form a plurality of perforation rows, extending in the longitudinal direction, and are separated from one another by webs. In order to achieve an improved coefficient of thermal conductivity and to reduce the flank transmission, the invention proposes the combination of the following features: thickness of the webs ≤ 5 mm, ratio of the largest and smallest inside widths of the perforation cross-section is between 1:1 and 1:2.5, spacing of the perforation rows ≤ 22 mm, proportion of perforations $\geq 50\%$ and apparent density of the brick material ≥ 1.5 kg/dm³. Hexagonal perforations, with corners directed towards the side walls, and a fibrous porosity agent are to be preferred. The abutment surfaces should be designed such that they are essentially in mirror symmetry with respect to one another, with the result that the protrusions bear against one another and the depressions respectively form a cavity together.

IPC 1-7

E04B 2/14

IPC 8 full level

E04B 2/14 (2006.01); **E04B 2/18** (2006.01); **E04B 2/02** (2006.01)

CPC (source: EP US)

E04B 2/18 (2013.01 - EP US); **E04B 2002/0208** (2013.01 - EP US); **E04B 2002/0213** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)

US 5499478 A 19960319; AT E172265 T1 19981015; DE 59309059 D1 19981119; EP 0599283 A2 19940601; EP 0599283 A3 19940713; EP 0599283 B1 19981014

DOCDB simple family (application)

US 15677893 A 19931124; AT 93118896 T 19931124; DE 59309059 T 19931124; EP 93118896 A 19931124