

Title (en)
METHOD FOR MANUFACTURING A STRUCTURAL MODULE WITH A FACADE LAYER AND THE STRUCTURAL MODULE WITH A FACADE LAYER MANUFACTURED BY THIS METHOD

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES STRUKTURELLEN MODULS MIT EINER FASSADENSCHICHT UND DEM STRUKTURELLEN MODUL MIT EINER NACH DIESEM VERFAHREN HERGESTELLTEN FASSADENSCHICHT

Title (fr)
PROCÉDÉ DE FABRICATION D'UN MODULE DE STRUCTURE AVEC UNE COUCHE DE FAÇADE ET MODULE DE STRUCTURE AVEC UNE COUCHE DE FAÇADE FABRIQUÉ PAR CE PROCÉDÉ

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Application
EP 16156111 A 20160217

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UA A201501381 A 20150218

Abstract (en)
The invention relates to a construction sector, in particular, to a method of manufacturing a structural module with a heat-insulating layer and a facade layer formed thereon which performs protective and decorative functions (i.e. a module fully ready for use in the construction) and design features of the structural module, thus manufactured. The method of manufacturing the structural module comprises formation of a bearing monolithic base followed by formation of the heat-insulating layer, the reinforcing layer and the facade layer. Firstly, the facade layer is formed by placing a layer of hydrophobic filler on the bottom of the mold, placing an adhesive mixture, the reinforcing layer, the heat-insulating layer and bearing base thereon and the adhesive mixture is then allowed to polymerize. Spreadability of the adhesive mixture is within 7 cm to 70 cm and adhesion of the adhesive mixture to the heat-insulating layer is at least 0.5 MPa. To fix the heat-insulating layer on the bearing base, a fixing element is used with a dead end buried in the heat-insulating layer before the bearing base is formed followed by embedding an operating end of the fixing element in a layer of the bearing base. The structural module comprises the bearing monolithic base, the heat-insulating layer, the reinforcing layer, the facade layer and the fixing element to fix the heat-insulating layer on the bearing base. The facade layer is formed by pouring a layer of the adhesive mixture onto the filler layer, and the facade layer is made so to achieve compressive strength of at least 16 MPa. A dead end of the fixing element is buried in the heat-insulating layer, while the operating end of the fixing element is embedded in the bearing base.

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CPC (source: EP)
B28B 19/0015 (2013.01); **B28B 19/003** (2013.01); **E04C 2002/007** (2013.01)

Citation (applicant)
• RU 2465415 C1 20121027 - BALAEV ALEKSANDR MIKHAJLOVICH [RU], et al
• RU 2225486 C2 20040310 - DZHANIBEKOV RUSLAN AKHMATOVICH [RU]
• UA 14846 U 20060515 - JOINT UKRAINIAN GERMAN ENTPR A [UA]
• RU 2336395 C2 20081020 - OBSHCHESTVO S OGRANICHENNOJ OTV [RU]

Cited by
US2020080309A1; US10626607B2

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