

Title (en)
FIRE RESISTANT STRUCTURAL PANEL WITH A PIR CORE

Title (de)
FEUERBESTÄNDIGE BAUPLATTE MIT PIR-KERN

Title (fr)
PANNEAU STRUCTUREL IGNIFUGE AVEC UN NOYAU PIR

Publication
EP 3031994 A1 20160615 (EN)

Application
EP 15460062 A 20150831

Priority
UA 20140131 12 A 20141208

Abstract (en)
The fire resistant structural panel with a PIR core relates to the construction branch, namely to the composite elements of building construction, and is intended for the manufacture of fire resistant load bearing structures. A fire resistant structural panel with a polyisocyanurate PIR core is composed of outer upper and lower boards, an adhesive material, a strut framework and a filler. Wherein the strut framework is made as contiguous regular hexagons (honeycomb). The outer boards and the strut framework (4) are made of cement-cellulose and the filler (5) is a polyisocyanurate foam PIR. All strut framework (4) is made of strips (7) which have a form based on a half of hexagon wherein the strips (7) are assembled to create cells (6) of the strut framework (4) and they have at least one round hole (8) on a side of the hexagon.

IPC 8 full level
E04C 2/36 (2006.01)

CPC (source: EP)
E04C 2/365 (2013.01)

Citation (applicant)

- SU 727786 A1 19800415 - INST STR ARKHITEKTURY GOSSTROY [SU]
- US 2011047932 A1 20110303 - FLEMING III JOSEPH C [US]
- RU 136064 U1 20131227

Citation (search report)

- [Y] WO 9715736 A1 19970501 - ROBERTSON UK LTD H H [GB], et al
- [Y] DE 10305747 A1 20040819 - TALIAN ESTABLISHMENT VADUZ [LI]
- [Y] EP 0041044 A1 19811202 - JENNI HERMANN
- [Y] EP 0068873 A2 19830105 - QUINTON & KAINES HOLDINGS [GB]
- [Y] FR 93312 E 19690314 - LEONIE FOURNET [FR], et al
- [A] FR 1056877 A 19540303 - WINGFOOT CORP

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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