

Title (en)
FIRE-RESISTANT INSERT FOR A BUILDING ELEMENT, BUILDING ELEMENT AND METHOD OF MANUFACTURING SUCH BUILDING ELEMENT

Title (de)
FEUERBESTÄNDIGER EINSATZ FÜR EIN BAUELEMENT, BAUELEMENT UND VERFAHREN ZUR HERSTELLUNG EINES SOLCHEN BAUELEMENTES

Title (fr)
INSERT RESISTANT AU FEU POUR UN ÉLÉMENT DE CONSTRUCTION, ÉLÉMENT DE CONSTRUCTION ET PROCÉDÉ DE FABRICATION D'UN TEL ÉLÉMENT DE CONSTRUCTION

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Abstract (en)
The invention relates to a fire-resistant building element (200) for supporting a glasswork (400), comprising a main metal hollow profile (201) forming a main chamber (202) and a pressure plate profile (210) for pressing down the glasswork (400) to be placed in said building element between the main metal hollow profile (201) and the pressure plate profile (210), sealing means placed between the main metal hollow profile (201) and the glasswork to be supported by the fire-resistant building element, said main metal hollow profile (201) having a glasswork side (201a) and at least two lateral walls (201b, 201c) and a protruding fastening member (203) protruding outwardly from a central section (201g) of the glasswork side (201a) for receiving fastening means, said fire-resistant building element (200) being characterized in that a fire-resistant insert (100) is fixedly placed inside the main metal hollow profile (201) so as to border on at least the glasswork side (201a) of the main metal hollow profile (201), said fire-resistant insert (100) comprising an external tubular profile (101) forming a first chamber (102), said external tubular profile (101) having at least one glasswork side (101a) shaped for bordering on at least glasswork side of said main metal hollow profile (201) from its interior, an internal tubular profile (103) arranged inside said external tubular profile (101) and forming a second chamber (104) inside said first chamber (102), said internal tubular profile (103) and said external tubular profile (101) being fixedly interconnected on two facing glasswork sides (101a, 103a), a composite material (110) filling at least partially the first chamber (102). The invention relates also to a fire-resistant insert (100) and a method of manufacturing of a fire-resistant building element (200).

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Citation (applicant)
• EP 0686735 A1 19951213 - HARTMANN & CO W [DE]
• US 5694731 A 19971209 - TOENSMANN ARMIN [DE], et al

Citation (search report)
• [XAI] DE 10144820 A1 20030327 - BEMOFENSTERBAU GMBH [DE]
• [IA] EP 1120504 A2 20010801 - NORSK HYDRO AS [NO]

Cited by
CN112081512A; EP3896046A1

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