Title (en)

Flat or substantially flat roof

Title (de)

Flaches Dach oder wesentlich flaches Dach

Title (fr)

Toit plat ou sensiblement plat

Publication

EP 1570141 A1 20050907 (EN)

Application

EP 03780557 A 20031212

Priority

- IE 0300168 W 20031212
- IE 20020968 A 20021212

Abstract (en)

[origin: GB2396166A] A composite roof panel for flat or low pitch roofs comprises a generally flat external sheet 2, a profiled internal sheet 3, and an insulating core 4 between the external sheet 2 and internal sheet 3. The external sheet 2 has an external male projecting part 10 and an internal recess part (11, fig 2) on one side for engagement, on assembly, with a corresponding external recess part 12 and projecting inner male part 13 respectively on the opposite side of the panel. At least a portion of the side edges 21, 22 of the insulating core 4 between the joint forming portions of the external sheet and internal lining sheet has an inclined wedge profile. The inclined wedge profiles of the side edges 21, 22 of the insulating core 4 form oppositely directed wedge faces. A side edge 22 of the insulating core 4 of one panel (20A, fig 3A) is matched with the opposite side edge 21 of an adjacent panel (20B, fig 3A). On assembly, a first overlap portion (31, fig 3B) of the panel receives a second overlap portion (32, fig 3B) of the adjacent panel. A joint reinforcing plate (40, fig 3C) has a downwardly extending locator defined by a projection (41, fig 3C) which is located in a gap (35) at the joint to ensure that the reinforcing plate (40) is accurately positioned relative to the joint. The plate (40) has holes (42, 43, fig 3C) to receive joint fasteners (44,45, fig 4).

IPC 1-7

E04D 3/00

IPC 8 full level

E04B 1/61 (2006.01); **E04B 1/62** (2006.01); **E04D 3/18** (2006.01); **E04D 3/35** (2006.01)

CPC (source: EP GB)

E04C 2/292 (2013.01 - GB); **E04D 3/352** (2013.01 - EP); **E04D 3/355** (2013.01 - EP); **E04D 3/362** (2013.01 - GB)

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

GB 0328932 D0 20040114; **GB 2396166 A 20040616**; **GB 2396166 B 20061129**; AT E495324 T1 20110115; AU 2003288482 A1 20040630; AU 2003288482 B2 20090108; CN 100473792 C 20090401; CN 1726329 A 20060125; DE 60335739 D1 20110224; EP 1570141 A1 20050907; EP 1570141 B1 20110112; ES 2358422 T3 20110510; IE 20030934 A1 20040616; NZ 540602 A 20070427; PT 1570141 E 20110419; WO 2004053252 A1 20040624

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