

Title (en)

Flat roof with cover and hold down devices.

Title (de)

Flachdach mit Abdeckung und Niederhaltungseinrichtungen.

Title (fr)

Toit plat à couverture et dispositifs de maintien.

Publication

EP 0104810 A2 19840404 (EN)

Application

EP 83305193 A 19830907

Priority

US 42574082 A 19820928

Abstract (en)

A loosely laid water-proof membrane of elastomeric material (11) covering a flat roof is combined with a series of hold-down devices (14) for securing the membrane to the roof deck (12) against wind-generated uplift forces. Each hold-down device (16) comprises a disk (17) having a domed, downwardly concave, middle portion (17a) and a surrounding, generally flat, transverse peripheral portion (17b) the radial width of which is equal to between about 25% and 50% of the radius of the disc as a whole. The discs, with their concavities facing the membrane, are arranged on the latter at predetermined spacings, being fixed in place by metallic fasteners (18) driven through the domed portions and the membrane deeply into the roof deck. The concavity of each disc is filled with a sealant (20), so that as each disc is pressed down upon tightening of the associated fastener, the sealant is pressed down against the membrane as well as inwardly against the fastener and outwardly against the peripheral portion of the disc. An elastomeric flat ring gasket (19) may also be located between each disc's peripheral portion and the underlying membrane.

IPC 1-7

E04D 5/14; **E04D 3/36**

IPC 8 full level

E04D 3/24 (2006.01); **E04D 5/14** (2006.01)

CPC (source: EP)

E04D 5/143 (2013.01); **E04D 5/145** (2013.01)

Cited by

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DOCDB simple family (publication)

EP 0104810 A2 19840404; **EP 0104810 A3 19840905**; BR 8305219 A 19840502; ES 284418 U 19850601; ES 284418 Y 19860901; JP S5991258 A 19840525; NO 833513 L 19840329; ZA 836651 B 19840425

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