

Title (en)

PROFILE FOR THE FASTENING AND THERMAL INSULATION SYSTEM OF WINDOWS, DOORS AND FACADES

Title (de)

PROFIL FÜR EIN BEFESTIGUNGS- UND WÄRMEDÄMMUNGSSYSTEM VON FENSTERN, TÜREN UND FASSADEN

Title (fr)

PROFILÉ POUR UN SYSTÈME DE FIXATION ET D'ISOLATION THERMIQUE DE FENÊTRES, PORTES ET FAÇADES

Publication

**EP 3350400 B1 20210526 (EN)**

Application

**EP 16787575 A 20160916**

Priority

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Abstract (en)

[origin: WO2017048144A1] The subject of the invention is the profile for the fastening and thermal insulation system of windows, doors and facades, an essential element of which is the angle iron (1), made of any material, preferably of steel, with the cross section resembling the letter "L", which has longitudinal inflection points (2) arranged along the edges of its both arms, which are bent towards the inside of the angle iron (1), preferably at an angle of 90°. The angle iron (1) "L" is filled with the filling compound (3). In addition, thanks to rolling of the edges of the angle iron (1) and the presence of longitudinal inflection points (2) of the iron angle (1) formed this way, it is possible to place the brace (4) between them, which expands the arms of the angle iron (1). The brace (4) may be substantially the longitudinal flat bar, whereby it can have holes or protrusions; optionally the brace (4) can be made of small boards arranged respectively along the length of the angle iron (1) "L". The aforementioned brace (4) always forms an acute angle - with the arm of the angle iron (1), which it is adjacent to and with longitudinal inflection points (2) going out of this arm - which angle is typically 45°. The brace (4) is then the bisector of the angle defined by the arm of the angle iron (1) and of the longitudinal inflection point (2). In the basic solution - the profile is fixed to the wall face by means of fasteners, pins or screws (7). The screw (7) passing through the horizontal arm of the angle iron (1) fixes the frame of the window, door or other facade elements to the angle iron (1) "L". The installation may be also performed with the use of fixing anchors (6), directly connected to the profile, relatively supporting the profile, and then also connected to the building wall. Fixing anchors (6) may be equipped with one or several swivels (8). They may also be made of several sliding elements (9), enabling the separation, and thus the elongation of fixing anchors (6). The use of swivels (8), which may have the form of hinges, is improved by the strength of fixing anchors (6).

IPC 8 full level

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