

Title (en)  
FRAME PROFILE FOR WINDOWS, DOORS AND FAÇADES WITH IMPROVED THERMAL INSULATION BY MEANS OF SURFACES HAVING OPTIMIZED EMISSIVITY

Title (de)  
RAHMENPROFIL FÜR FENSTER, TÜREN UND FASSADEN MIT VERBESSERTER WÄRMEDÄMMUNG DURCH OBERFLÄCHEN MIT OPTIMIERTER EMISSIVITÄT

Title (fr)  
PROFILE D'ENCADREMENT DE FENETRES, PORTES ET BARDAGES A ISOLATION THERMIQUE AMELIOREE PAR DES SURFACES A EMISSIVITE OPTIMISEE

Publication  
**EP 1974116 A1 20081001 (DE)**

Application  
**EP 07702865 A 20070118**

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Abstract (en)  
[origin: WO2007082751A1] A thermally insulated wooden, plastic or metal profile for windows, doors and façades having a room-side surface which is coated or film- or foil-covered or else anodized in the case of aluminium, this surface having an initial heat transfer coefficient of  $\leq 3.0 \text{ W/m}^2\text{K}$  at standard heat transmission resistances, is characterized in that the room-side profile surfaces have emission numbers of 0.55 to 0.10, wherein, depending on the profile geometry and the initial heat transfer coefficient, and corresponding to the climatic conditions, values are selected for the emission numbers such that the room-side surface temperatures of the profiles lie above the dew point limit and the heat transfer coefficients of the profiles are reduced by at least 5%.

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