

Title (en)

Building wall with improved insulation properties and fixing assembly for use in the building wall

Title (de)

Gebäudewand mit verbesserten Isolierungseigenschaften und Befestigungsanordnung zur Verwendung in der Gebäudewand

Title (fr)

Construction d'un mur doté de propriétés isolantes améliorées et ensemble de fixation à utiliser pour la construction du mur

Publication

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Application

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Abstract (en)

The present invention provides a wall (1) comprising a first panel (3) and a second panel (4) defining the surfaces of the wall (1) and extending in planes substantially parallel to each other and a sheet of sound and/or thermal insulating material (5) located between the panels (3, 4); at least one elongate fixing element (2) formed of metal positioned between the first and second panels (3, 4), and having; first and second side surfaces (8, 9) arranged in a plane substantially parallel to the planes of the first and second panels (3, 4); wherein the first panel (3) is attached to the first side surface (8); the second panel (4) is attached to the second side surface (9); and wherein a mat (6) comprising from 20 to 95 weight % aerogel is positioned between the first panel (3) and the first side surface (8) of the fixing element (2), the mat having a compressive stress at 10% compression of at least 20 kPa or, if 10% compression is not reached before the maximum compressive stress, having a compressive strength of at least 20 kPa. A method of reducing thermal and sound transfer and an elongate fixing assembly for use in a building wall are also provided.

IPC 8 full level

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CPC (source: EP)

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