

PATENT SPECIFICATION

(11)

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(21) Application No. 13287/71

(22) Filed 5 May 1971

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(54) A THERMAL INSULATION SLAB



(71) We, TORVALE HOLDINGS LIMITED formerly Woodcemair Limited, a British Company, of Pembridge, Leominster, in the County of Hereford, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to thermal insulation slabs, that is, slabs generally intended for use in the building or allied industries and intended to provide thermal insulation where a building is clad with slabs.

An object of the invention is to provide a new and improved thermal insulation slab.

According to the present invention we provide a thermal insulation slab comprising two slabs of wood wool between which is sandwiched a sheet of synthetic plastics material which is impermeable to water vapour.

The expression "wood wool slabs" as used in the specification and claims defines a known type of slab which is made from long wood fibres which are coated with a cement and bound together under pressure to form a closely meshed structural slab.

One embodiment of the invention will now be described with reference to the accompanying drawing which is a vertical cross section through a thermal insulation slab embodying the invention.

Referring to the drawing, the slab comprises two slabs, 1 and 2 both of which are made of wood wool. Sandwiched between the layers 1 and 2 is a sheet 3 of synthetic plastics material which is impermeable to water vapour. In the present example, the sheet 3 is a polyethylene film but it should be appreciated that other suitable plastics materials may be used.

The edges of the sandwich are clamped together by means of reinforcing channels 4 which, in order to make the panel completely impermeable to water vapour, are

[Price 33p]

adhered to the adjacent edges 5 of the sheet 3, which edges are lapped around the adjacent edges of one of the slots 1 and 2, in this case the upper slab 1. If desired, instead of the channels 4 other support members could be used. The slabs 1, 2 and sheet 3 may be bonded together, if desired.

One application of such slabs is in the roof of a building and in this case a number of slabs, each as described above, are placed in rows on spaced supports and have a waterproofing material, such as felt, laid thereon. In order to make the slabs completely impermeable to water vapour, tapes, themselves impermeable to water vapour are applied to the junctions between the slabs. Thus, water vapour cannot rise through the rows of slabs to condense on the under side of the waterproofing.

WHAT WE CLAIM IS:—

1. A thermal insulation slab comprising two slabs of wood wool between which is sandwiched a sheet of synthetic plastics material which is impermeable to water vapour.

2. A slab according to Claim 1 wherein said synthetic plastics material is polyethylene.

3. A slab according to Claim 1 or Claim 2 wherein the edges of the wood wool slabs are clamped together by means of a channel shaped element or elements.

4. A slab according to Claim 3 wherein the sheet of plastics material is wrapped around the edge of one of said wood wool slabs onto the opposite surface thereof and is adhered to the channel shaped element.

5. A slab according to any one of the preceding claims wherein the slabs of wood wool and the sheet of plastics material are bonded together.

6. A slab substantially as hereinbefore described with reference to and as shown in the accompanying drawings.

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