

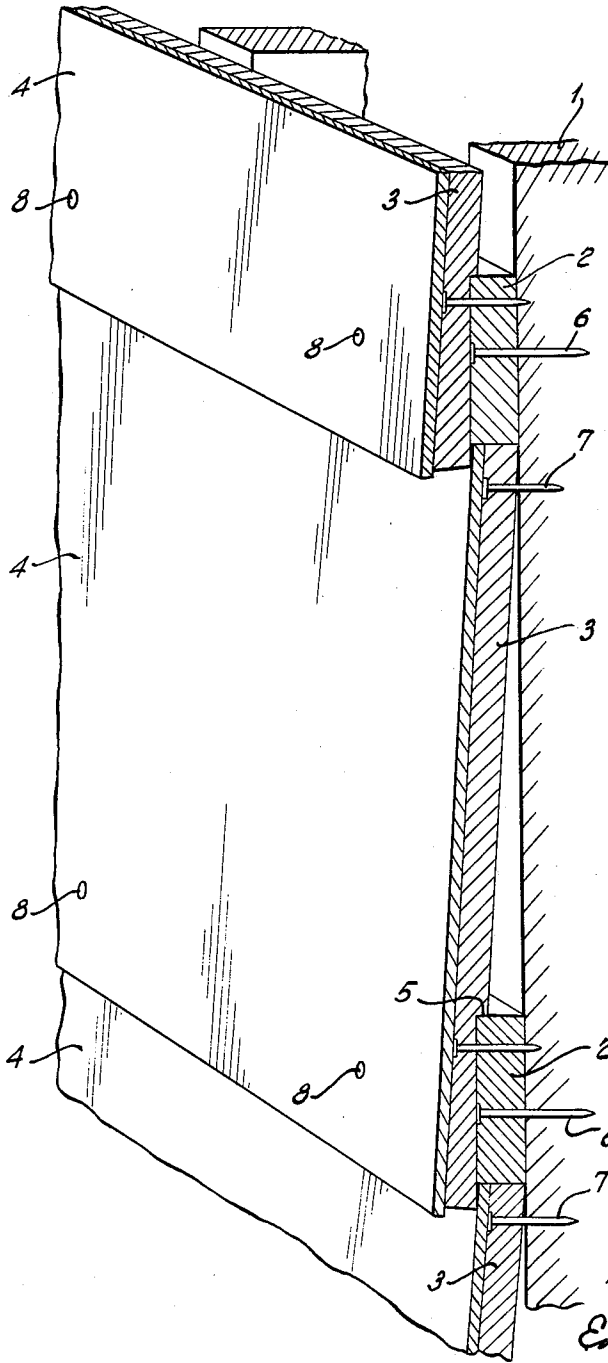
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WALL CONSTRUCTION

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WALL CONSTRUCTION

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2 Claims. (Cl. 50-251)

This invention relates to an improved wall construction and more particularly to a wall construction comprising shingles and insulation backer board combined with frame work of the wall. In most areas of the United States wooden buildings are commonly constructed utilizing a plurality of vertical studs which are usually placed 16 inches on center, more or less. In the case where it is intended to cover the exterior of the building with shingles it is customary to first cover the studs with a sheathing material which may be wood, insulation board, gypsum board, plywood, or the like. One of the methods for installing shingles and particularly asbestos-cement shingles utilizes a backer board which is generally three-eighths inch thick insulation board. Such construction permits a substantial shadow line for the asbestos-cement shingle substantially greater than the thickness of the shingle itself. The present invention relates to an improvement in this art of applying a shingle such as an asbestos-cement shingle to a side wall to give an improved shadow line by a simple but strong application technique.

It is therefore an object of the present invention to provide an improved wall construction utilizing shingles as the wall covering.

It is a further object of the present invention to provide an improved wall construction utilizing asbestos-cement shingles with an insulation backer.

It is a further object of the present invention to provide an improved wall construction utilizing asbestos-cement shingles and shingle backer without the use of the customary sheathing.

It is a further object of the present invention to provide an improved wall construction utilizing asbestos-cement shingles as the covering utilizing insulation backer board which is self-aligning.

These and other objects of the present invention are achieved by the present invention which will best be understood by reference to the drawing which illustrates a preferred embodiment of the invention but it will be understood that variations and substitutions may be made within the scope of the claims.

The drawing is a perspective cross-sectional view of a segment of a wall in accordance with a preferred embodiment of the present invention. In the drawing there are shown studs 1-1 to which are nailed nailing strips 2-2. These nailing strips are preferably ordinary 1 x 3 planed lumber which usually actually measures approximately 3/4 inches x 2 3/4 inches. Outside of the studs and nailed to the nailing strips are backer strips 3-3 which are preferably of insulation board 1/2 inch thick. On the outermost surface of the wall are asbestos-cement shingles 4-4-4. It will be noted that the insulation boards contain a rabbeted ledge 5.

In assembling the wall a nailing strip 2 is first nailed along the bottom of the wall to the studs or other member which may be located at the bottom of the wall. When nailed to studs the nailing strips are nailed at the studs and are unsupported in between. After the first nailing strip is in place, the first backer board is placed so that the rabbeted ledge 5 rests on the top of the nailing strip. The backer board is then preferably nailed to the nailing strip by means of a nail 6 and head nailed to a stud by means of nail 7. This latter nail is not absolutely

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necessary but aids in racking strength. The next succeeding nailing strip 2 is laid on the top of the backer boards and nailed to the studs by means of nails 6. By this method the entire wall may be covered with the nailing strips and backer boards first and then the asbestos-cement shingles subsequently applied. Alternatively, the asbestos-cement shingles may be applied with each row of backer boards as the wall goes up. In any case, the asbestos-cement shingles need be nailed only by nails 8-8 in the face of the shingles which nails will penetrate the insulation board and hold in the nailing strip.

By this method it will be seen that a very strong, decorative and well insulated wall may be constructed without the use of any sheathing. Important features of the invention include the rabbeted ledge on the backer board which permits an automatic aligning of the backer board as well as the next nailing strip above. Another important feature is the use of a common 1 x 3 nailing strip since the invention requires no elaborate rabbeted or other specially cut nailing strip.

One of the important features of this construction is that a slight leverage is provided on the upper edge of the nailing strip tending to cause a slight stress on the shingle such that it is pressed against the backer board in the next row above providing a sealing means.

By the use of the present invention there is substantial saving both in sheathing and in application time. The results are not only a wall which is structurally sound but one which achieves the attractive, decorative appearance of a heavy shadow line.

I claim:

1. A wall construction comprising horizontally extending wood nailing strips of substantially rectangular cross-section, said strips being vertically spaced from one another on vertically extending studs and being nailed to said studs, a backer board of fibrous insulation board having its upper edge abutting the bottom edge of a first nailing strip and overlying a second nailing strip at its lower end, said backer board having an inverted L-shaped rabbet formed at the lower end thereof, the horizontal leg of the L-shaped rabbet resting upon the upper edge of said second nailing strip and the vertical leg of said L-shaped rabbet extending to the lowermost edge of the backer board, said backer board being nailed at its lower end to said second nailing strip, and an asbestos-cement shingle covering said backer board and nailed through the lower end of said backer board to said second nailing strip, the upper edge of said shingle abutting the bottom edge of said first nailing strip, the lower margin of said backer board being disposed between said shingle and said second nailing strip.

2. A wall construction as defined in claim 1, wherein said asbestos-cement shingle is of slightly greater transverse dimension than that of said backer board so as to extend slightly below the lower edge of said backer board.

References Cited in the file of this patent

UNITED STATES PATENTS

60	329,513	Underwood	Nov. 3, 1885
	2,358,396	Hogan	Sept. 19, 1944
	2,366,149	Robertson et al.	Dec. 26, 1944
	2,394,379	Herbes	Feb. 5, 1946
	2,659,323	Alvarez	Nov. 17, 1953
65	2,727,283	Gollner	Dec. 20, 1955
	2,796,637	Miles	June 25, 1957
	2,847,723	Gollner	Aug. 19, 1958

FOREIGN PATENTS

70	953,406	France	1949
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