

Roof covering for pitched roofs

Objective : At the end of this lesson, you shall be able to
 • state the types of pitched roof covering materials.

Roof covering for pitched roofs


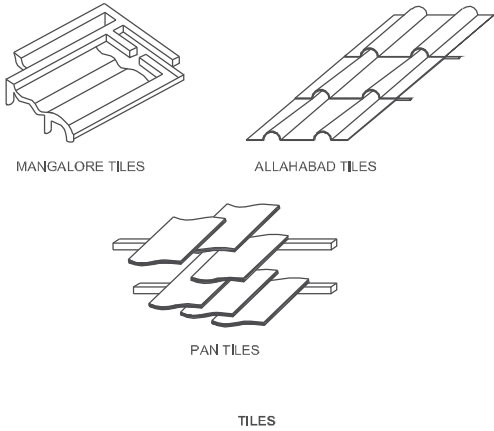
Roof covering is an essential component of pitched roof to be placed over the roof framework to protect it from main rain, snow, sun, wind and atmospheric agencies.




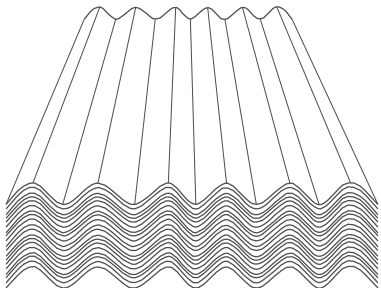
Following points should be considered before selecting the type of roof covering for a pitched roof.


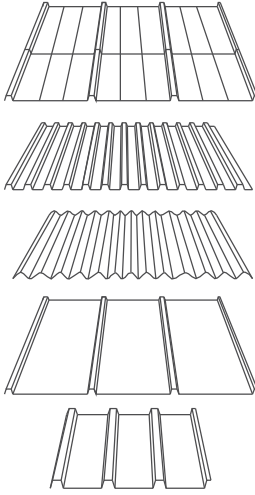
- 1 Climate of the locality
- 2 Nature of the building

- 3 Initial cost and maintenance cost
- 4 Durability
- 5 Availability of the material
- 6 Fabrication facilities
- 7 Type of roof framework
- 8 Resistance to fire and heat
- 9 Special feature of the locality.

Roof covering materials

Name	Description	
<p>Thatch:</p>	<p>Extensively used in sheds & villages Cheapest & lightest material Unstable against wind. Laid on battens.</p>	<p>Fig 11</p> 
<p>Tiles:</p>	<p>These are largely used various kinds of tiles are used. Commonly used for covering sloped roof.</p>	<p>Fig 12</p>  <p>MANGALORE TILES ALLAHABAD TILES</p> <p>PAN TILES</p> <p>TILES</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">DCN/1/09/011</p>

<p>Poly carbonate sheets</p>	<p>New type material with high strength, heat insulation and good light transmission. Good weather resistance and UV protection.</p>	<p>Fig 13</p> 
<p>Glass</p>	<p>Structural glass slabs are available at in different gauges. Fibre glass is both strong and Height weight. Provide good light transmission,good appearance, etc.</p>	<p>Fig 14</p> 
<p>Slates</p>	<p>It is stratified rocks. Produced in large number of sizes. Obtained from either quarries or from mines.</p>	<p>Fig 15</p> 
<p>Asbestos cement sheets (AC sheets)</p>	<p>For AC sheets the cement is mixed with about 15% of asbestos fibres and the paste so formed are pressed under rollers with grooves or teeth with series of corrugations. They are used for factories, workshops, garages, big halls etc. Available in different trade such as big six sheet, standard sheet, Trafford sheet etc.</p>	<p>Fig 16</p>  <p>ASBESTOS CEMENT SHEETS</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">DCN2109172</p>

<p>Shingles:</p>	<p>Wood shingles are the sawn or split thin pieces of wood obtained from well sea soned timber resembling slates or tiles. Generally restricted in hilly areas. Laid in a manner as slates or tiles.</p>	<p>Fig 17</p> 
<p>Corrugated galvanized iron sheet:</p>	<p>Prepared by pressing flat wrought iron plates between rollers with grooves or teeth and then galvanized with coat of zinc. Corrugations are present to in crease strength and rigidity.</p>	<p>Fig 18</p>  <p>CORRUGATED GALVANIZED IRON SHEET</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">D/CN/10/001/13</p>
<p>Ruberoid</p>	<p>Light, flexible & waterproof, Not affected by heat or cold & not attacked by fire. Available in rolls.</p>	<p>Fig 19</p> 