

TRI Pocket Reference



Material Checklist & Table 1B



Suggested Material Checklist

Decking:	Sheathing must be adequate to support the loads involved, but not less than nominal 1-inch-thick lumber or nominal 15/32-inch-thick plywood or other decking material recognized in a code evaluation report or by the local building official.
Underlayment:	ASTM D226 Type II (No. 30 felt)/ASTM D4869 Type IV.
Battens:	Nominal 1" x 2" complying with IBC Chapter 23, section 2302.
Eave Treatments:	Bird Stop/Eave riser.
Valley Flashing:	No. 26 Gauge (G-90) Galv., 24" Flashing.
Wall Trays (Pans):	No. 26 Gauge (G-90), Galv., minimum 6" trough.
Roof To Wall:	No. 26 Gauge, Galv. (G-90) or flexible flashing to provide minimum 3" coverage.
Pipe Flashing:	No. 26 Gauge, Galv. (G-90) Deck flashing installed with underlayment. Flat tile flashing No. 26 Gauge Galv. (G-90). Profile tile flashing 2-1/2 lb lead, dead soft aluminum or copper.
In Wall Counter Flashing:	No. 26 Gauge, Galv. Z bar flashing recommended or surface mount reglet (pin) flashing for reroof.
Fasteners:	See page 5 and Table IA/IB for requirements.
Ventilation:	Per local building code requirements.



Table 1B

Roofing tile application for concrete and clay tiles with projecting anchor lugs when installed on roof slopes of 4 units vertical in 12 units horizontal (33% slope) and greater

	4 Units Vertical in 12 Units Horizontal (33% Slope) and over
Deck Requirements	Sheathing must be adequate to support the loads involved, but not less than nominal 1-inch thick lumber or 15/32-inch thick plywood or other decking material recognized in a code evaluation report or by the local building official. The use of sheathing less than 15/32-inch will require supporting data.
Underlayment in climate areas subject to wind driven snow, roof ice damming or wind regions as defined by local building codes	Solid sheathing one layer of ASTM D226 Type II (No. 30) (ASTM D4869 Type IV), or approved equal, lapped 2 inches horizontally and 6 inches vertically, except that extending from the eaves up the roof to a line 24 inches inside the exterior wall line of the building, two layers of the underlayment shall be applied shingle fashion and solidly cemented together with approved cemented material. As an option a code approved self adhering membrane may be used.
Underlayment for Other Climates	For spaced sheathing, approved reinforced membrane. For solid sheathing, a minimum single layer ASTM D226 Type II (No. 30) (ASTM D4869 Type IV), or approved equal, felt lapped 2 inches horizontally and 6 inches vertically.
Attachment¹ Type of Fasteners	Fasteners shall comply with IRC section R905.3.6 and IBC section 1507.3.6 and UBC Section 1507.3 and shall comply with ASTM F1667 for tolerances. Corrosion resistant meeting ASTM A641 Class I or approved equal, or number II gauge diameter and of sufficient length to properly penetrate 3/4" into or through the thickness of the deck or batten ² , whichever is less. The head of the nail used for tile fastening will not be less than 5/16 inches and shall comply with ASTM F1667 for tolerances. Other fastening systems such as screws, wire or adhesive based systems as approved by code, or local building officials will be allowed. Horizontal battens are required on solid sheathing for slopes greater than 7 units vertical in 12 units horizontal (58.3% Slope) ^{1,2} .
Number of fasteners Spaced/Solid sheathing with Battens or spaced sheathing³	5 units vertical in 12 units horizontal and below (42% Slope), fasteners not required. Above 5 units vertical in 12 units horizontal (42% Slope) to less than 12 units vertical in 12 units horizontal (100% Slope), one fastener per tile every other row or every other tile in each course. Twelve units vertical in 12 units horizontal (100% Slope) to 24 units vertical in 12 units horizontal (200% Slope), one fastener every tile ⁴ . All perimeter tiles require one fastener ⁵ . Tiles with installed weight less than 9 pounds per square foot require a minimum of one fastener per tile regardless of roof slope.
Solid sheathing without battens³	One fastener per tile.
Field Tile Head Lap	3 inches minimum
Flashing	Shall be a minimum on No. 26 Gauge Galv. steel sheet of corrosion resistant metal with a minimum of 0.90 ounces of zinc/sq. ft. (total for both sides) G90 sheet metal or equal.

Table 1B Footnotes

¹ For jurisdictions enforcing the:

IBC: In snow areas, a minimum of two fasteners per tile are required or battens with one fastener.

IRC: In snow areas, a minimum of two fasteners per tile are required.

UBC: In snow areas, a minimum of two fasteners per tile are required, or interlocking tiles with anchor lugs engaged on battens with one fastener.

All tiles shall be attached as follows:

1.1 The heads of all tiles shall be fastened.

1.2 The noses of all eave course tiles shall be fastened with clips, or other methods of attachment as approved by building code officials.

1.3 All rake tiles shall be secured with two fasteners when required by IBC table 1507.3.7 and IRC section R905.3.7.

1.4 The noses of all ridge, hip and rake tiles shall be set in a bead of approved roofers mastic.

1.5 Other methods of tile fastening will be allowed based upon submission of testing and approval of building code officials.

1.6 For jurisdiction enforcing IBC and IRC, see appendix B for design considerations for high wind applications.

² Battens shall not be less than nominal 1-inch by 2-inch complying with IBC Chapter 23, section 2302. Provisions shall be made for drainage beneath battens by a minimum 1/4-inch riser at each nail or by 4 foot long battens with at least 1/2-inch separation between battens or other methods approved by local building officials. Battens shall be fastened with approved fasteners spaced at not more than 24 inches on center.

³ In snow areas a minimum of two fasteners per tile are required, or battens and one fastener.

⁴ On roof slopes over 24 units vertical in 12 units horizontal (200% slope), the nose end of all tiles shall be securely fastened.

⁵ Perimeter fastening areas include three tile courses but not less than 36 inches from either side of hips or ridges and edges of eaves and gable rakes.

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