

(2) Each layer of flashing shall be uniformly mopped with hot asphalt applied in a quantity not less than 25 pounds plus or minus 15% per roofing square for each mopping, or attached with approved cold adhesive providing equivalent bond.

(3) Flashing turned up vertical surfaces shall be not less than one #30 felt starting four inches (4") out from the cant strip and carried up such vertical surfaces not less than six inches (6"), and one mineral surfaced felt starting six inches (6") out from the cant strip and carried up a minimum of eight inches (8") above the top of the cant.

(4) Such flashing shall be fastened to the wall one and one-half inches (1-1/2") down from the upper edge every six inches (6") after which the top edge shall be finished with a three inch (3") strip of membrane set in roofing cement (ASTM D-4586).

(j) VALLEYS:

(1) Valleys shall be metal, as set forth in Sub-section 3407.4 herein.

(k) PARAPET WALLS: Built-up roof covering felts shall not wrap over walls more than 24" in height above the deck and, where wrapped, shall be applied as follows:

(1) Flashing turned up vertical surfaces shall be not less than one #30 felt starting four inches (4") out from the cant strip and carried up the face over the top of the parapet, and one mineral surfaced rolled roofing (ASTM D-249) starting six inches (6") out from the cant strip and carried up and over the parapet to within three inches (3") of the outside edge and fastened six inches (6") on center.

(2) The resulting edge shall then be finished with either a three inch (3") strip of membrane set in roofing cement (ASTM D-4586) and painted with aluminum paint or coping installed in accordance with Sec. 3407.12

(i) INSULATION: Roof insulation may be applied under or over an anchor sheet and, where provided shall be attached as set forth in Section 3406 herein.

(m) SURFACING:

(1) Mineral surfaced roofing shall not be applied on inclines one-half inch (1/2") or less per foot and, where used, shall be applied only over anchor sheets and mopped in as provided in Paragraph 3402.2(h) herein, and on inclines five inches (5") or more per foot, such caps shall be backnailed 18 inches on centers.

(2) Cap-surfacing with smooth or mineral surfaced felts of glass, or modified bitumen of SBS shall not be limited to slope requirements and may be:

(aa) One layer of mineral surfaced fiberglass felt.

(3) COATINGS:

(aa) Coatings shall be applied no later than 60 days after installation of membrane. Surface shall be clean and dry when coating is applied. Roof to be coated shall not be glaze coated. Coatings shall be applied in a uniform coverage with no asphalt showing through.

(bb) Aluminum pigmented coatings conforming to ASTM D-2824 Type I or III shall be applied at a minimum rate of 1.5 gallons per 100 square feet.

(cc) Emulsion coatings conforming to ASTM D-1227 Type III or IV shall be applied at the minimum rate of 3 gallons per 100 square feet.

(dd) Acrylic coatings shall not be applied on slopes less than 1/4" per foot, and when used, shall be applied at the rate recommended by the coating manufacturer.

3402.3 PREPARED ROOF COVERINGS:

(a) MATERIALS:

(1) Prepared roof covering materials shall be as set forth in Paragraph 3402.2(a) and are, in general, limited to roof decks capable of receiving and retaining mechanical fasteners.

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(m) SURFACING:

(1)(aa) Aggregate surfacing shall not be used on inclines of more than three inches per foot and, where used, shall be embedded in a flood coat of bitumen applied hot over the anchor and additional sheets as set forth in this Sub-section.

* **(bb)** On inclines of less than 2" per foot, a minimum of 400 pounds of aggregate shall be applied per square and shall be clean and reasonably dry. All aggregate shall be embedded in hot bitumen and free to move aggregate shall be removed.

* **(cc)** On inclines of two inches or more per foot, 300 pounds of aggregate or 250 pounds of slag per roofing square. All aggregate shall be embedded in hot bitumen and free to move aggregate shall be removed.

* **(dd)** All aggregate shall meet ASTM D-1863.

(2) Mineral surfaced roofing shall not be applied on inclines one-half inch or less per foot and, where used, shall be applied only over anchor sheets and mopped in as provided in Paragraph 3402.2(h) herein, and on inclines five or more inches per foot, such caps shall be backnailed 18 inches on centers.

(3) Cap-surfacing with smooth or mineral surfaced felts of glass shall not be limited to slope requirements and may be:

(aa) One layer of 72 pound mineral surfaced glass fiber felt.

(n) Roof covering may be 55 pound mineral-surfaced split sheet applied over one 30 pound felt, each layer lapped 19 inches and mopped after fastening to the deck through two rows of tin-caps spaced not more than eight inches on center in the unsurfaced portion, staggering the rows.

3402.3 PREPARED ROOF COVERINGS:

(a) MATERIALS:

(1) Prepared roof covering materials shall be as set forth in Paragraph 3402.2(a) and are, in general, limited to roof decks capable of receiving and retaining mechanical fasteners.

(2) This Sub-section is limited to shingles of Slate and Composition and supplements the application instructions included in the packages of such materials by the manufacturers.

(3) Other prepared roofing materials such as Concrete Tile, Clay Tile Metal Shingles, Wood Shingles and Wood Shakes require more detailed application control, as set forth in subsequent Section of the Chapter.

(b) APPLICATION: Unless otherwise specified herein, such prepared roof covering materials shall be applied only to inclines specified by the manufacturers.

(c) SLATE SHINGLES:

(1) Slate shingles shall not be applied on roofs having an incline of less than three and one-half inches per foot.

(2) Slate shingles shall be applied only to solid-sheathed wood, or other nailable decks, with underlayment of one type #30 felt anchor sheet secured as set forth in Paragraph 3402.2(c) herein, and one type #30 felt base sheet mopped in with hot, steep bitumen except for inclines five inches or more per foot such mopping may be omitted.

(3) Slate shingles shall be fastened with not less than two noncorrosive nails penetrating the deck not less than three-quarters inch.

(4) The edges of sheathing at eaves and gable ends shall be covered and protected from water infiltration and all intersections shall be flashed with metal as provided in Section 3407 herein.