

OKLAHOMA STATE UNIVERSITY - BUILDING DESIGN STANDARDS

PART 1 GENERAL

1.01 SYSTEM DESCRIPTION:

A. Tile Roof Flashing:

1. All flashings between tile roofs and vertical surfaces shall be 16 ounce cold-rolled copper run, not less than two inches higher than the tile and covering the first row of tile.
2. Flashings to be lapped six inches and to be secured with four inch wide floating 20 gage stainless steel cleats at 36 inches on center or continuous 20 gage stainless steel cleat.
3. Box flashings to be used along rakes. All flashings to be counterflashed.
4. Copper edge strip to be used along all exposed sheathing edges.
5. All flashing and counter-flashing associated with tile roof system shall be copper.

B. Gutters:

1. 24 gage galvanized iron or copper (where appropriate), half round, 4 inch deep, 5 inch wide, both edges rolled over 5/8" copper coated steel rod and set at a pitch of 1/4 inch per 10 feet to drain.
2. Hangers: Adjustable type, spaced at 24 inches o.c., Berger Brothers, shank type.
3. Gutters shall be used at draining edge of all tile roofs, unless specifically approved otherwise.
4. All joints shall be soldered.

C. Downspouts:

1. Galvanized steel or copper (where appropriate) threaded pipe built into the wall and turned out on top about two feet below gutters and fitted with a drip flange.
2. Galvanized iron downspout shall run from gutter down and into the steel pipe, loose fit.
3. Run downspouts and roof drainage to underground storm drainage lines.
4. No exposed downspouts shall be used except with express approval of OSU Architecture Services.

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5. Use two 45 degree sections to transfer from gutter to downspout.

6. Provide snap-in cleanouts at each story of construction for multi-story work.

1.02 SUBMITTALS:

A. Submit full size samples of the following:

1. Flashing and counterflashing.
2. Gutter section.
3. Downspout section.

1.03 QUALITY ASSURANCE:

- A. Except as otherwise indicated, conform to requirements and recommendations of SMACNA "Architectural Sheet Metal Manual", as applicable and including joints, seams, details and accommodation of thermal movement.
- B. Sheet metal and flashing installations shall be designed to withstand 100 mph wind uplift.
- C. Completed work must be free from water leakage under all weather conditions.

1.04 WARRANTY:

- A. Sheet metal work shall be warranted for a period of five years from date of the Notice of Acceptance.
- B. Warranty shall include replacement at Contractor's expense any defects which occur during the warranty period which, in the opinion of the Architect are due to defective materials, workmanship, or for failure to allow for expansion/contraction.

PART 2 PRODUCTS

2.01 MATERIALS:

- A. Zinc-Coated Steel Sheet: Commercial quality carbon steel sheets with minimum of 0.20 percent copper content complying with ASTM A 526 or A 527 for lock-forming; hot-dip galvanized to comply with ASTM A 525, G90, mill phosphatized, 20 gage except as otherwise indicated.
- B. Copper Sheet: Cold-rolled sheet copper (H00), complying with ASTM B 370, except soft temper (060) where fully concealed and supported for proper performance, CDS 2B (bright) finish, 16 oz. per sq. ft. (0.0216" thick) except as otherwise indicated.

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- C. Stainless Steel Sheet: AISI Type 302/304 stainless steel sheet or strip complying with ASTM A167; soft; No. 2D annealed finish, 0.0250" thick (24 gage) except as otherwise indicated.

END OF SECTION 07615