

TG 07610 v 12.08
Summary of Changes

1. Changed the warranty period from 2 years to 5 years.

Metal Roofing
TECHNICAL GUIDE

TG 07610

1. COORDINATION ISSUES: (Not Used)

2. DESIGN ISSUES:

- 2.1** Use roofing manufacture's standard integral flashing, rakes, edges, collar flashing curbs, crickets, and other roof accessories for standing seam roofs.
- 2.2** Do not 'flash' over tops of standing seams with segmented flashing panels.

3. Drawing Notes: (Not Used)

4. STANDARD DRAWINGS:

- 4.1 Standard Cricket for Metal Roofs:** See attached standard detail A/TG 07610.

5. SPECIFICATION NOTES:

- 5.1 Coatings:** For new steel or aluminum metal roofing projects, specify roofing panels pre-finished at the factory with finish systems such as Kynar (heavy-duty; approx. 1.5 mil total thickness).

5.2 Quality Control Requirements: metal roofing sheets shall comply with:

Galvanized Sheets	ASTM	A 653
Aluminum Sheets	ASTM	B 209
Zincalume Sheets	ASTM	A 792
Copper Sheets	ASTM	B 370

5.3 Comply with NRCA Recommendations.

- 5.4 Materials:** Except in areas where unusual corrosive conditions exist (such as sulfurous fumes in certain areas on the Big Island), sheet metal for gutters, downspout leaders, edging, counterflashing, etc. which must be either removed or disturbed for reroofing shall be of galvanized steel for the following reasons:

- 5.4.1** Sheet metal items adjoining built-up roofing are generally damaged considerably during removal and/or lifting unless extraordinary care is taken and are almost impossible to restore to their original functional and/or aesthetic adequacy.
- 5.4.2** Galvanized steel, if periodically checked and painted / coated to keep rust under control, will last just as long as, if not longer than, the built-up roofing to which it is appurtenant.
- 5.4.3** Because of their high value as scrap metal, copper items are frequently stripped from buildings by thieves.

6. GUIDE SPECIFICATION:

6.1 Warranty (Part 1):

6.1.1 The warranty provisions and number of years for the warranties required by this article shall take precedence over the standard provisions in the GENERAL CONDITIONS.

SPECIFIER'S NOTE: Fluoropolymer finish warranty described below covers Kynar finishes described in Subparagraph 5.1 above.

6.1.2 Special Warranty on Finishes: On manufacturer's standard form in which manufacturer agrees to repair finish or replace sheet metal roofing that shows evidence of deterioration of factory-applied finishes within specified warranty period.

6.1.2.1 Fluoropolymer Finish: Deterioration includes, but is not limited to, the following:

6.1.2.1.1 Color fading more than 5 Hunter units when tested according to ASTM D 2244.

6.1.2.1.2 Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.

6.1.2.1.3 Cracking, checking, peeling, or failure of paint to adhere to bare metal.

6.1.2.2 Finish Warranty Period: Twenty years from the Project Acceptance Date.

6.1.3 Project Warranty: Submit Contractor's warranty, signed jointly by Roofing Installer covering the work of this section, including all components of roof system without monetary limitation, in which roof installer and manufacturer(s) agree to repair or replace components of roofing system that fail in materials or workmanship for the warranty period specified below.

6.1.3.1 Failures include, but are not limited to, the following: Structural failures, loose parts, wrinkling or buckling, failure to remain weathertight, including uncontrolled water leakage, deterioration of metals, metal finishes, and other materials beyond normal weathering, including nonuniformity of color or finish, galvanic action between sheet metal roofing, and dissimilar materials.

6.1.3.1.1 A structural failure is defined as a failure to withstand, without damage, basic wind speeds up to 80 MPH, Exposure __, and Importance Factor __ as defined by the Building Code for the applicable building heights.

6.1.3.2 Warranty Period: ~~Two~~ **Five** years from the Project Acceptance Date.

6.1.3.3 Warranty shall cover repairs or replacement of damages to the building and its finishes due to leaks.

6.1.3.4 Warranty shall state the Manufacturer's acceptance that the roof was installed in accordance with the contract requirements and that the State's personnel were properly instructed in the maintenance procedures.

6.1.3.5 In the event of a failure State, Contractor, Roofing Installer, and Manufacturer shall mutually agree and determine roof system failures and remedies.

SPECIFIER'S NOTE: Retain paragraph 6.2 only when the size or complexity of the roofing and flashing work warrants a Pre-installation Meeting. Otherwise delete paragraph 6.2 entirely.

6.2 Pre-Installation Meeting (Part 1): The General Contractor, the authorized roofing manufacturers' representatives, or their independent roofing inspectors shall attend a pre-installation meeting. Include other related trades, such as sheet metal contractor, as applicable. Confirm the required participants with the Contracting Officer. Notify participants at least five days prior to meeting. Intent of the meeting is to review the preparation and installation requirements for the roofing system and to coordinate and schedule the required work.

6.3 Submittals (Part 1): Information Card: For each roof project, furnish a typewritten information card for facility records and a card laminated in plastic, attached to the underside of the roof hatch, or as directed by the Contracting Officer. Cards shall be 8-1/2 inches x 11 inches. Information card shall identify facility name and/or facility designation (letter or number), contract number, type of roof system installed, including deck type, type of membrane, number of plies, method of application, manufacturer; manufacturer's representative contact information, insulation and cover board system and thickness; date of completion; installer's warranty expiration date; installing contractor and contact information; membrane manufacture's material warranty expiration date; warranty reference number, and warranty contact information. See Roofing Information Card on next page.

ROOFING INFORMATION CARD

FACILITY

Building Name _____ Bldg.desig/No. _____

DAGS Job. No. _____

ROOF

Type of Roof System _____ Type of Deck _____

MEMBRANE

Type of Membrane _____ No. of Plies _____

APPLICATON

Method of Application _____ (nailed, heat applied, self-adhered, etc.)

INSULATION

Type of Insulation _____ Cover Board _____

Thickness _____

Thickness _____

INSTALLER (Roofing Contractor)

Company _____ Contact person _____

Contact No. _____

MANUFACTURER

Company _____ Representative _____

Contact No. _____

COMPLETION DATE _____

DATE INSTALLER'S WARRANTY EXPIRES _____

DATE MANUFACTURER'S WARRANTY EXPIRES _____

Warranty Reference No. _____ Warranty Contact person _____

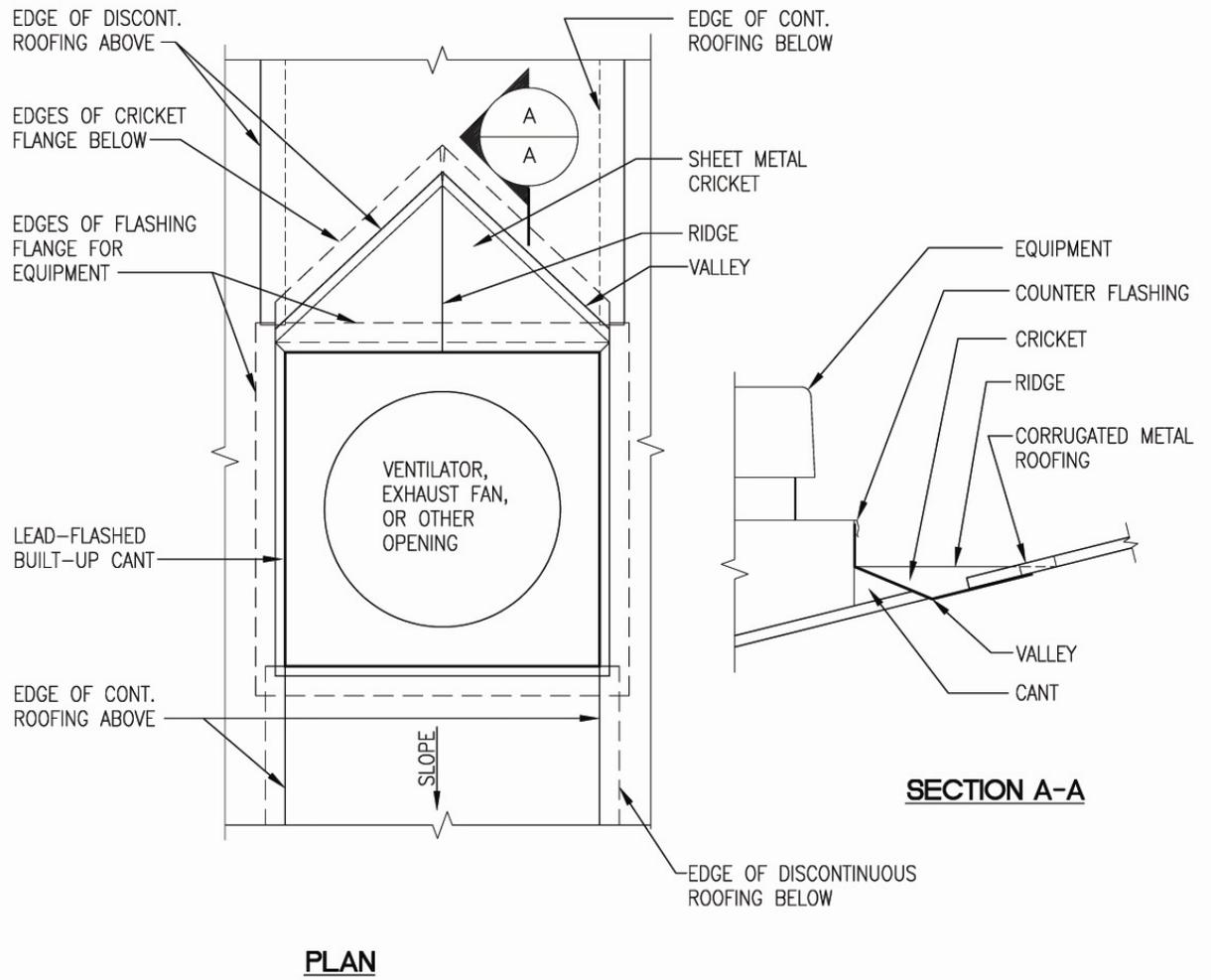
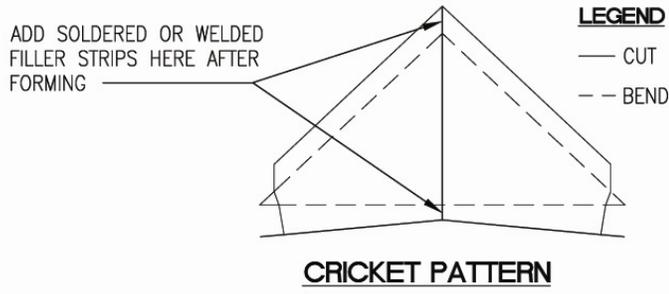
Contact No. _____

END OF SECTION

DESIGN CONSULTANT CRITERIA

~~v06-08~~ v12.08

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A **STANDARD CRICKET DETAIL**
 TG 07610 SCALE: NTS