IKO METALS USA, INC.
4400 Sterilite Drive, Ennis, TX 75119

United States 1-888-456-7663
Canada 1-888-766-2468
Website www.IKOMetals.com
Email IKOMetalsCustomerService@IKO.com

OCTOBER 2026

GUIDE SPECIFICATION

Specifier Notes: This guide specification is written in the Construction Specifications Institute (CSI) 3-Part Format in accordance with *The CSI Construction Specifications Practice Guide, MasterFormat, SectionFormat* and *PageFormat*.

This Section must be carefully reviewed and edited by the Architect to meet the requirements of the Project and local building code. Coordinate this Section with Conditions of the Contract, Division 01, other specification sections and the Drawings. Delete all Specifier Notes after editing this Section.

Section numbers and titles are based on *MasterFormat 2018 Edition.*

SECTION 07 41 13

METAL ROOF PANELS

Specifier Notes: This Section covers DECRA by IKO Metals — Farmhouse Shake aggregate-coated metal roof panels. Consult IKO Metals USA, Inc. for assistance in editing this Section as required for the Project.

DECRA by IKO Metals — Farmhouse Shake aggregate-coated metal roof panels must be installed with a minimum slope of 3:12 (25%). For roof slopes between 2:12 (16%) and less than 3:12 (25%), the metal roof panels are considered decorative and must be installed over a roof covering system in accordance with the local building code. Consult IKO Metals USA, Inc. for more information.

PART 1 | GENERAL

1.1 SECTION INCLUDES

A. Stone-coated metal roof panels

1.2 RELATED REQUIREMENTS

Specifier Notes: Edit the following list of related sections as required for the Project. Limit the list to sections with specific information that the reader might expect to find in this Section, but is specified elsewhere.

A. Section 06 10 00 — Rough Carpentry: Wood framing and sheathing

B. Section 07 62 00 — Sheet Metal Flashing and Trim: Metal flashing

C. Section 07 72 00 — Roof Accessories: Roof ventilators

D. Section 07 92 00 — Joint Sealants: Field-applied sealants

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1.3 REFERENCE STANDARDS

Specifier Notes: List reference standards used elsewhere in this Section, complete with designations and titles. Delete reference standards from the following list not used in the edited Section.

A. American Society of Mechanical Engineers (ASME) (www.asme.org):

1. ANSI/ASME B18.6.1 — Wood Screws (Inch Series)
2. ANSI/ASME B18.6.4 — Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws, Inch Series

B. ASTM International (ASTM) (www.astm.org):

1. ASTM A653 — Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
2. ASTM A792 — Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process
3. ASTM C920 — Standard Specification for Elastomeric Joint Sealants
4. ASTM D226 — Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing
5. ASTM D1970 — Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
6. ASTM E108 — Standard Test Methods for Fire Tests of Roof Coverings

C. ICC Evaluation Service (www.icc-es.org):

1. ICC-ES Evaluation Report ESR-5879 — Farmhouse Shake (Batten Installation)

D. UL (www.ul.com):

1. UL 790 — Standard for Standard Test Methods for Fire Tests of Roof Coverings
2. UL 2218 — Standard for Impact Resistance of Prepared Roof Covering Materials

1.4 PREINSTALLATION MEETINGS

Specifier Notes: Edit the Preinstallation Meetings article as required for the Project. Delete this article if not required.

A. Convene preinstallation meeting [one week] [two weeks] before start of installation of roof panels.

B. Require attendance of parties directly affecting the Work of this Section, including Contractor, Architect, installer and manufacturer's representative.

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C. Review the following:

1. Materials
2. Preparation
3. Installation
4. Adjusting
5. Cleaning
6. Protection
7. Coordination with other Work

1.5 SUBMITTALS

Specifier Notes: Edit the Submittals article as required for the Project. Delete submittals not required.

A. Submittals: Comply with Division 01.

B. Product Data: Submit manufacturer's product data, including preparation and installation instructions.

C. Shop Drawings: Submit manufacturer's shop drawings, including plans, elevations, sections and details, indicating dimensions, tolerances, materials, components, fabrication, flashing, fasteners, finish, options and accessories.

D. Samples: Submit manufacturer's sample of roof panels.

1. Sample Size: minimum full panel

E. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.

F. Product Evaluation Reports: Submit manufacturer's product evaluation reports from accredited evaluation service.

G. Manufacturer's Project References: Submit manufacturer's list of 10 successfully completed roof panel projects of comparable size and scope to this Project, including Project names and locations, names of architects and type and quantity of roof panels furnished.

H. Installer's Project References: Submit installer's list of five successfully completed roof panel projects of comparable size and scope to this Project, including Project names and locations, names of architects and type and quantity of roof panels installed.

I. Warranty Documentation: Submit manufacturer's standard warranty.

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1.6 QUALITY ASSURANCE

A. Manufacturer's Qualifications:

1. Manufacturer is regularly engaged in the manufacturing of roof panels of similar type to that specified for a minimum of 10 years.

B. Installer's Qualifications:

1. Installer is regularly engaged in installation of roof panels of similar type to that specified for a minimum of five years.
2. Use persons trained for installation of roof panels.

1.7 DELIVERY, STORAGE AND HANDLING

A. Delivery Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Storage and Handling Requirements:

1. Store and handle materials in accordance with manufacturer's instructions.
2. Keep materials in manufacturer's original, unopened containers and packaging until installation.
3. Store materials in clean, dry area indoors.
4. Do not store materials directly on the floor or ground.
5. Protect materials and finish during storage, handling and installation to prevent damage.

1.8 WARRANTY

A. Warranty Period:

1. Single-Family Detached Residential: Lifetime limited
   a. Wind: Resist blow-off in wind speed up to 120 mph (193 km/h).
   b. Hail: Resist hailstone penetration, cracks and splits; hailstone size limit: 2.5 inches (64 mm).
2. Multifamily Residential, Nonresidential: 50-year limited
   a. Wind: Resist blow-off in wind speed up to 120 mph (193 km/h).
   b. Hail: Resist hailstone penetration, cracks and splits; hailstone size limit: 2.5 inches (64 mm).

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PART 2 | PRODUCTS

2.1 MANUFACTURERS

Specifier Notes: Specify if substitutions will be permitted.

A. Manufacturer: IKO Metals USA, Inc., 4400 Sterilite Dr, Ennis, TX 75119. Toll Free 1-877-463-3272. Phone: 951-272-8180. Website: www.IKOMetals.com. Email: IKOMetalsCustomerService@IKO.com.

B. Substitutions: [Not permitted] [Comply with Division 01].

C. Single Source: Provide materials from single manufacturer.

2.2 MATERIALS

Specifier Notes: Do not specify materials containing lead, copper or stainless steel with roof panel system. Do not specify pressure-treated lumber containing copper compounds in the treatment solution with roof panel system. Consult IKO Metals USA, Inc. for more information.

A. Basis-of-Design Product: DECRA by IKO Metals — Farmhouse Shake aggregate-coated metal roof panels

B. Roof Panels: DECRA by IKO Metals — Farmhouse Shake interlocking panels, resembling heavyweight dimensional roofing shakes

1. Material: pressure-formed, aluminum-zinc alloy-coated steel, ASTM A792, with multiple vertical hand-split style shakes forming one shake step
2. Thickness: 26 gauge, 0.0179 inch (0.455 mm)
3. Finish: ceramic-coated, colored-stone chip finish

Specifier Notes: Specify color of roof panels required for the Project. Delete the colors not required.

4. Color: [Blacksmith] [Finished Oak] [Walnut] [Heritage Stone] [Heritage Clay] [Timber Green] [Country Millstone]
5. Dimensions:
    a. Overall Panel Size: 16 3/16 inches (411 mm) wide by 52 9/16 inches (1,335 mm) long
    b. Installed Panel Exposure: 14 1/2 inches (368 mm) wide by 49 9/16 inches (1,245 mm) long
    c. Side Panel Laps: 3 inches (76 mm)
    d. Panel Leading Edges Bent Down: 1 inch (25 mm); provides overlap for weather protection and nailing purposes.
6. Nominal Installed Weight: 150 lbs per 100 square feet

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7. Recycled Steel Content: maximum 30%

Specifier Notes: Specify Class A, B or C.

8. Noncombustible, ASTM E108, UL 790: [Class A] [Class B] [Class C]
9. Impact Resistance, UL 2218: Class 4
10. ICC-ES Evaluation Reports:
    a. Batten Installation: ESR-5879
11. Florida Building Code Approval:
    a. Batten Installation: FL9759-R10
12. Miami-Dade County, Florida Building Code Approval:
    a. Batten Installation: NOA No. 23-0207.04
13. CCMC — National Building Code of Canada Approval:
    a. Batten Installation: 10241-R

C. Flashing:

Specifier Notes: Include the following paragraph for batten installation.

1. Valley: aluminum-zinc alloy-coated steel sheet, ASTM A792
   a. Thickness: 26 gauge, 0.0179 inch (0.455 mm)
2. Side Flashing: IKO Metals USA, Inc. “Side Flashing” aluminum-zinc alloy-coated steel sheet, ASTM A792
   a. Pressure-formed to flash vertical roof surface transitions
   b. Thickness: 26 gauge, 0.0179 inch (0.455 mm)
   c. Finish: Ceramic-coated, colored-stone chip finish to match roofing material
3. Roof-to-Wall Flashing: aluminum-zinc alloy-coated steel sheet, ASTM A792
   a. Pressure-formed to flash vertical roof surface transitions
   b. Thickness: 26 gauge, 0.0179 inch (0.455 mm)
   c. Finish: Match color to exterior finish.

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4. Pipe Jack Flashing:
    a. Material: galvanized or aluminum-zinc alloy-coated steel, ASTM A792
    b. Thickness: 26 gauge, 0.0179 inch (0.455 mm)
    c. Finish: Clean, prime and paint to match roof material.
5. Underpan: IKO Metals USA, Inc. “Farmhouse Shake Underpan” aluminum-zinc alloy-coated steel sheet, ASTM A792
    a. Pressure-formed to counter flash roof penetrations matching roof panel material profile
    b. Thickness: 26 gauge, 0.0179 inch (0.455 mm)

Specifier Notes: Include one of the following two paragraphs for fascia metal for reroofing installations. Specify required fascia metal required for the Project.

6. Fascia Metal: IKO Metals USA, Inc. “Farmhouse Shake Fascia Metal” aluminum-zinc alloy-coated steel sheet, ASTM A792
    a. Pressure-formed angle installed at first batten to cover buildup.
    b. [3.5 inches (89 mm)] [5 inches (127 mm)], 26 gauge, 0.0179 inch (0.455 mm)
    c. Finish: ceramic-coated, colored-stone chip finish to match roofing material
7. Fascia Metal: aluminum-zinc alloy-coated steel sheet, ASTM A792
    a. Pressure-formed angle installed at first batten to cover buildup.
    b. [3.5 inches (89 mm)] [5 inches (127 mm)], 26 gauge, 0.0179 inch (0.455 mm)
    c. Finish: Paint to match exterior finish.

D. Hip and Ridge: IKO Metals USA, Inc. “Shake Hip & Ridge” covers, fascia, drips, rakes and other trim required, matching shingle material, color and finish

1. Hips/Ridges and Rakes: IKO Metals USA, Inc. “Shake Hip & Ridge” aluminum-zinc alloy-coated steel sheet, ASTM A792
2. Pressure-formed to match roofing material
3. Thickness: 26 gauge, 0.0179 inch (0.455 mm)
4. Finish: Color and finish to be applied along hips, ridges and rakes.

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2.3 ACCESSORIES

Specifier Notes: Specify accessories required for the Project. Delete the accessories not required.

Specify timber or steel battens if required for the Project. Consult IKO Metals USA, Inc. for more information.

A. Timber Battens: [Nominal 1- x 4-inch standard-grade counter battens, as needed, for reroof applications] [Nominal 2- by 2-inch standard grade]:

1. Fasteners: nails, minimum 16d ring shanked, 3 1/4 inches (83 mm) long

B. Steel Battens: minimum 20 gauge, ASTM A653 galvanized steel, hat channels

1. Fasteners: screws, minimum No. 8, 2 inches (51 mm) long, hot-dip galvanized

C. Sheet Metal Materials: aluminum-zinc alloy-coated steel sheet, ASTM A792, [Class AZ50] [Class AZ150] coating designation; minimum [Grade 37] [Grade 255]

D. Felt Underlayment: ASTM D226, Type I, No. 15 or ASTM D226, Type II, No. 30, nonperforated, ASTM D4869, Synthetic Underlayment: ASTM D8257

Specifier Notes: Specify perimeter underlayment for ice dam protection if required for the Project. Delete if not required. Consult IKO Metals USA, Inc. for more information.

E. Perimeter Underlayment for Ice Dam Protection:

1. Self-adhering, polymer-modified, bituminous sheet underlayment compliant with ASTM D1970
2. Provide primer when recommended by underlayment manufacturer

F. Sealant:

1. One-part elastomeric roofing-grade sealant, ASTM C920
2. Exposed sealant: color to match roof panels

G. Fasteners:

1. Screws:
   a. Wood screws: ANSI/ASME B18.6.1
   b. Sheet metal screws: ANSI/ASME B18.6.4
   c. Corrosion-resistant
   d. No. 10
   e. Length: 1-1/2 inch (38 mm) minimum
   f. Color: color-coordinated to match roof panels

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PART 3 | EXECUTION

3.1 EXAMINATION

A. Examine substrate to receive roof panels.

B. Verify surfaces to support roof panels are clean, dry, square, sound, stable, rigid and capable of supporting the weight.

C. Notify Architect of conditions that would adversely affect installation or subsequent use.

D. Do not begin preparation or installation until unacceptable conditions are corrected.

3.2 PREPARATION

A. Prepare substrate in accordance with manufacturer's instructions.

B. Clean substrate of projections and substances detrimental to roof panels.

C. Cover knotholes or other minor voids in substrate with sheet metal flashing secured with roofing nails.

Specifier Notes: Edit the following sentence as required for the Project.

D. Inspect and verify roof framing spacing and installation is straight, true and ready for installation of [battens and] roof panels.

E. Coordinate installation of roof panels with flashing and other adjoining work to ensure proper sequencing.

F. Do not install roof panels until vent stacks and other penetrations through roof have been installed and are securely fastened.

G. Do not install roof panels until flashing is in place.

Specifier Notes: Delete the following sentence if exterior stucco and EIFS wall enclosures are not included in the Project.

H. Inspect and verify exterior stucco and EIFS wall enclosures are completed.

3.3 INSTALLATION

Specifier Notes: Edit the Installation article as required for the Project. Delete text not required.

A. Install roof panels in accordance with manufacturer's instructions at locations indicated on the Drawings.

B. Install roof panels weathertight.

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C. Battens:

1. Install 1- by 4-inch counter battens vertically over roof rafters/trusses, on 24-inch (610-mm) centers maximum.
    a. Stagger counter batten ends.
2. Install 2- by 2-inch battens perpendicular to roof rafters/trusses at 14 1/2-inch (368-mm) centers.
    a. Stagger batten ends.
3. Fasten counter battens and battens with fasteners in accordance with manufacturer's instructions.

D. Valleys: Install in accordance with manufacturer's instructions with a minimum 6-inch (152-mm) overlap in the direction of flow.

E. Flashing: Install as indicated on the Drawings and in accordance with manufacturer's instructions.

F. Roof Panels:

1. Install roof panels, accessories, flashing, and hip and ridge, ensuring they are level and plumb.
2. Use fasteners as specified and in accordance with the manufacturer's instructions.
3. Install each panel using a random stagger to prevent patterning and in accordance with manufacturer's instructions.

Specifier Notes: Specify the appropriate number of fasteners in accordance with code requirements. Batten installation requires a minimum of five fasteners: five in nose (penetrating through the panel back-shelf of preceding course).

4. Fasten each panel with [5] [10] screws minimum horizontally along the nose of each panel: one at each overlap and three more evenly spaced at other intermediate points.

G. Cut roof panels into each side of valleys in accordance with manufacturer's instructions straight and true to the line of the valley.

H. Hip and Ridge:

1. Install hip and ridge along hips, ridges and rakes as indicated on the Drawings and in accordance with manufacturer's instructions.
2. Bend and fold exposed ends of hips and ridges, and neatly cap with end cap or piece of similar material.

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I. Do not install roof panels in a manner that detracts from the appearance of the roof:

1. Do not rack panels.
2. Do not line panels vertically up the roof.
3. Do not use even panel offsets.
4. Do not make a pattern with panels.

J. Do not use the following with roof panel system:

1. Lead
2. Copper
3. Stainless steel
3. Pressure-treated lumber containing copper compounds in the treatment solution

3.4 ADJUSTING

A. Repair minor damage to roof panels in accordance with manufacturer's instructions and as approved by Architect.

B. Remove and replace with new material any damaged components that cannot be successfully repaired, as determined by Architect.

3.5 CLEANING

A. Clean roof panels of debris, including metal shavings, promptly after installation.

3.6 PROTECTION

A. Protect Work of this Section to ensure that, except for normal weathering, Work will be without damage or deterioration at time of substantial completion.

END OF SECTION