



TO THE DESIGNER

TFC CANOPY is pleased to present this specification guide to assist you in the selection of the appropriate TFC system for your project.

You will discover that we have many different systems from a single source, allowing you the freedom of design using more than one system and a variety of finishes.

Whether your projects call for flat, bent, curved, compound shapes, painted stainless, stone, caulk or dry joint materials, TFC has a system or combination of systems to meet your individual project needs.

TFC has the capability to service all of North America and areas beyond. Our facility is equipped with state-of-the-art technology to ensure unparalleled quality and service from manufacturing to installing the product.

This guide illustrates some of the basic details, abbreviated systems and suggested specification, all of which are available on disc to assist you in your design. We would like to meet with you personally to resolve any questions or concerns, and help you design an optimal project.

Please contact us at your earliest convenience. We have many qualified professionals on staff to assist you in your design and engineering needs.

Respectfully,
TFC Canopy, a Division of Centurion Industries, Inc.

Bob Patterson
President, TFC Canopy



TFC SERIES 2200
ROUTE AND RETURN 1 3/4" TESTED DRY RAIN SCREEN SYSTEM
AAMA 508/509 Approved
(General Specification)

DESCRIPTION

Aluminum composite material (ACM) is composed of two thin sheets of aluminum continuously bonded under pressure to both sides of a thermo-plastic core.

FEATURES

- Superior Flatness
- Rigidity
- Thermal Stability
- Virtually Endless Palette Of Colors
- High Strength to Weight Ratio
- Lightweight and Flexible
- Panels can be Bent or curved
- Full Framed Panel Extrusions

MATERIAL / FINISH OPTIONS

- 3-mm, 4-mm, and 6-mm material thickness
- Solvent-soluble Fluoropolymer
- FEVE/Lumiflon or PVDF/Kynar colors & treatments to meet your needs

JOINT DESIGN

- 1/2-inch Route and Return Dry System
- Joint reveal to be panel material
- Extruded Dry Joint (Free of Silicone Sealants)
- Water diverter at horizontal joints

SECTION 074243 - COMPOSITE WALL PANELS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes composite wall panel system.
 - 1. Preformed, pre-finished, composite panels
 - 2. Route and Return 1 3/4" System Depth
- B. Related Sections
 - Note to Specifier: Select appropriate Sections below or add other related Section.*
 - 1. Section 05120 – Structural Steel
 - 2. Section 06100 – Rough Carpentry
 - 3. Section 07920 – Joint Sealants

1.3 REFERENCES

- A. Aluminum Association (AA):
 - 1. AA-C22-A41: Clear Coatings
 - 2. AA-C22-A42: Integral Color Coatings
- B. American Society for Testing and Materials (ASTM):
 - 1. ASTM B209: Specification for Aluminum and Aluminum-Alloy Sheet and Plate
 - 2. ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials
- C. American Architectural Manufacturers Association (AAMA):
 - 1. AAMA 2605 Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels
 - 2. AAMA 508-07: Voluntary Test Method and Specification for Pressure Equalized Rain Screen Wall Cladding Systems
 - 3. AAMA 509-09: Voluntary Test and Classification Method for Drained Back Ventilated Rain Screen Wall Cladding Systems

1.4 QUALITY ASSURANCE

- A. Composite Panel Manufacturer shall have a minimum of 5 years of experience in the manufacturing of this product.
- B. Composite Panel Manufacturer shall be solely responsible for the panel manufacture and application of the finish.

- C. Fabricator/installer shall be acceptable to the composite panel manufacturer.
- D. Fabricator/installer shall have a minimum of 5 years of experience of metal panel work.
- E. Field measurements shall be taken prior to the completion of shop fabrication whenever possible. Coordinate fabrication schedule with construction schedule to avoid delay in the work. Field fabrication may be allowed to ensure proper fit.

1.5 SUBMITTALS

Note to Specifier: Revise Section number in paragraph below as appropriate

- A. Product Data: Manufacturer's product literature for the panel specified. Include material descriptions and finishes for each composite wall panel.
- B. Shop Drawings: Show fabrication and installation layouts of metal-faced composite wall panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details. Indicate thickness of Panel Material and detail joint locations; including joints necessary to accommodate thermal movement if enough joints are not drawn.
- C. Samples for Initial Selection: For each type of metal-faced composite wall panel indicated with factory-applied color finishes.
 - 1. Samples of each finish and color or colors selected
 - 2. Include manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each sealant exposed to view.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver components, sheets, metal-faced composite wall panels, and other manufactured items so as not to be damaged or deformed. Package metal-faced composite wall panels for protection during transportation and handling.
- B. Unload, store, and erect metal-faced composite wall panels in a manner to prevent bending, warping, twisting, and surface damage.
- C. Store metal-faced composite wall panels vertically, covered with suitable weather-tight covering. Store panels to ensure dryness. Do not store panels in contact with other materials that might cause staining, denting or other surface damage.
- D. Retain strippable protective covering on metal-faced composite wall panel for period of panel installation.

1.7 WARRANTY

- A. The manufacturer shall warrant the materials to be free of faults and that the warranty shall be extended by ACM manufacturer for the following:
 - 1. 10 year panel warranty
 - 2. 20 year finish warranty

- B. TFC Canopy agrees to repair or replace components of wall panel system that fail in materials or workmanship within one (1) year of substantial completion.

PART 2 – PRODUCTS

2.1 MANUFACTURER

- A. TFC Canopy - A Division of Centurion Industries Inc.
1107 N Taylor Road
Garrett, IN 46738
P: 800-832-3212
F: 260-357-6533
W: www.tfccanopy.com

2.2 PANEL TYPE

- A. Aluminum Composite Material

2.3 MATERIALS AND FABRICATION

- A. Composite Panel: Extruded thermoplastic core faced with 2 sheets of ASTM B209 .020 inch thick aluminum

Note to Specifier: Select the thickness in subparagraph below for composite panel.

- 1. Thickness: [3-mm] [4-mm] [6-mm]
- B. Tolerances
 - 1. Panel lines, angles, and breaks shall be sharp and true, and free from defects or open areas.

2.4 ACCESSORIES

- A. Male to Female Extrusions: 1/8” Thick Extruded Aluminum
- B. Joint Reveals to be panel material
- C. Fasteners: As recommended by TFC Canopy

2.5 FINISHES

Note to Specifier: Select paragraphs A and B below for finish type.

- A. Solvent-soluble Fluoropolymer
- B. FEVE/Lumiflon or PVDF/Kynar colors & treatments
 - Note to Specifier: Custom colors are available but are subject to an additional charge and quantity; Contact manufacturer for details.*
 - 1. Color: Selected by Architect from manufacturer’s standard colors
 - Note to Specifier: Verify number of coats with manufacturer, dependent on color selection*
 - 2. Number of Coats: [2-coat] [3-coat]
 - 3. Provide factory applied strippable plastic film for protection during fabrication and installation.

END OF SECTION