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This MANU-SPEC® utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM), including *MasterFormat™*, *SectionFormat™* and *PageFormat™*. A MANU-SPEC is a Manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets [ ]; delete optional text in final copy of specification. Specifier Notes precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate product model numbers, styles and types are used in Specifier Notes and in the specification text Article titled "Acceptable Material." Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies composite wall panels and accessories as manufactured by Metal Tech-USA. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat* for other section numbers and titles.

**07 42 43**  
**COMPOSITE WALL PANELS**

**PART 1 GENERAL**

1.01 SUMMARY

- A. Section Includes: This Section specifies composite wall panels and accessories.

Specifier Note: Revise Paragraph below to suit project requirements. Add section numbers and titles per CSI *MasterFormat* and specifier's practice.

- B. Related Requirements:

Specifier Note: Include in this Paragraph only those sections and documents that directly affect the work of this section. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the Subparagraph below. Do not include Division 00 documents or Division 01 sections since it is assumed that all technical sections are related to all project Division 00 documents and Division 01 sections to some degree. Refer to other documents with caution since referencing them may cause them to be considered part of the Contract.

1. Section [05 7000-Decorative Metal].
2. Section [07 9200-Joint Sealants].

1.02 REFERENCES

Specifier Note: Paragraph below may be omitted when specifying Manufacturer's proprietary products and recommended installation. Retain References Paragraph when specifying products and installation by an industry reference standard. List retained standard(s) referenced in this section alphabetically. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Contract Conditions Section 01 42 00 - References may establish the edition date of

standards. This Paragraph does not require compliance with standard(s). It is a listing of all references used in this section. Only include here standards that are referenced in the body of the specification in PARTS 1, 2 and/or 3. Do not include references to building codes at any level.

- A. ASTM International (ASTM):
  - 1. ASTM B69-13 Standard Specification for Rolled Zinc.
  - 2. ASTM B209-10 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Contract Conditions and Section 01 33 00 - Submittal Procedures.

### 1.03 SUBMITTALS

- A. General: Submit listed submittals in accordance with Contract Conditions and Section [01 33 00 - Submittal Procedures].
- B. Product Data: Submit for specified products as follows:
  - 1. Manufacturer's product data, including Manufacturer's SPEC-DATA product sheet.
  - 2. Manufacturer's Standard Installation Details.
  - 3. Material Safety Data Sheets (MSDS).
  - 4. [ ].
- C. Shop Drawings: Indicate information on shop drawings as follows:
  - 1. Verify field dimensions.
  - 2. [ ].

Specifier Note: Samples are full-size actual products intended to illustrate the products to be incorporated into the project. Sample submittals are commonly necessary for such character as colors, textures, and other appearance issues.

- D. Closeout Submittals:
  - 1. Manufacturer's Maintenance Instructions.
  - 2. Warranty Documentation: Submit warranty documents specified.
  - 3. [ ].
- E. Samples: Submit as follows:
  - 1. [Full size] [Standard] [ ] by [ ] inch ( [ ] by [ ] mm) samples of wall panel colors and finishes prepared on metal specified for panels.
  - 2. [ ].
- F. Manufacturer's Maintenance Instructions.
- G. Warranty Documentation: Submit warranty documents specified.
- H. [ ].

### 1.04 QUALITY ASSURANCE

- A. Installer: Acceptable to the Manufacturer, experienced in performing work of this section and has specialized in installation of work similar to that required for this project.

### 1.05 DELIVERY, STORAGE & HANDLING

- A. Deliver material in accordance with Section [01 61 00 - Common Product Requirements] and in accordance with Manufacturer's instructions.
- B. Deliver materials in Manufacturer's original packaging with identification labels intact and in sizes to suit project.

- C. Store materials protected from exposure to harmful weather conditions and at temperature conditions in accordance with Manufacturer's instructions.

Specifier Note: Coordinate Article below with Contract Conditions and with Section 01 78 36 - Warranties.

#### 1.06 WARRANTY

- A. Warranty: Refer to Contract Conditions and Section [01 78 36 - Warranties] for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, Manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and does not limit, other rights Owner may have under other Contract Documents.
  - 1. Warranty Term: [Two-years] commencing on date of substantial completion for defects in workmanship.

Specifier Note: Include statements specific to this Section that supplement or extend warranties contained in the Contract Conditions.

- C. Special Warranty:
  - 1. Warranty Term: [\_\_\_]-years] commencing on date of substantial completion for defects in material.

## PART 2 PRODUCTS

Specifier Note: Retain Article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal," "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

#### 2.01 COMPOSITE WALL PANELS

Specifier Note: Include in the following Paragraph Manufacturer's name, address, phone number, fax number, e-mail address and website URL.

- A. Manufacturer: MetalTech-USA.
  - 1. Contact: 611 Highway 74 South, Suite 900, Peachtree City, GA 30269; Telephone: (770) 486-8825; Fax: (770) 631-7689; E-mail: info@metaltech-usa.com; Website: www.metaltech-usa.com.

Specifier Note: Substitution procedures must either be in the Contract Conditions or in Section 01 25 00 - Substitution Procedures. Do not include substitution procedures here.

- 2. Single Source Responsibility: Provide components and materials specified in this section from a single Manufacturer.
- 3. Substitutions: No substitutions permitted.

Specifier Note: ZCM panels are laminated, non-structural, composite panels for straight, profiled or curved applications at interior and exterior locations. ZCM panels are available with polyethylene (PE) core, or fire-resistant (FR) core.

- B. ZCM-Zinc Composite Material Panels:
  - 1. Panel Thickness: 0.157 inch (4 mm).
    - a. Face Sheet: 0.02 inch (0.5 mm).

Specifier Note: Select PE or FR Core.

- b. PE Core: 0.118 inch (3 mm).
- c. FR Core: 0.118 inch (3 mm).
- d. Back Sheet: 0.02 inch (0.5 mm).

Specifier Note: Select PE or FR Core.

2. Panel Weight [PE Core]: 14.7 lb./ft.<sup>2</sup> (7.8 kg/m<sup>2</sup>).
3. Panel Weight [FR Core]: 17.4 lb./ft.<sup>2</sup> (9.2 kg/m<sup>2</sup>).
4. Panel Width: 3 feet (76.2 mm), maximum [ ] inch ( ) mm] [ ] [As detailed].
5. Panel Length: [12 feet (3658 mm), maximum] [( ) feet – ( ) inches ( ) mm] [ ] [As detailed].
6. Installation Method: [Mechanical attachment to furring strips with concealed fasteners] [Glazed-into curtain wall or storefront framing] [Adhesive attachment to gypsum board at interior locations] [Continuous Perimeter Panel System] and [Rout and Return] [Dry or Wet Joint System] [ ] [As detailed].

## 2.02 MATERIALS

- A. Face Sheet: RHEINZINK zinc alloy with copper and titanium; [Type 1] [Type 2]; ASTM B69-13:

Specifier Note: Select standard or custom finishes.

1. Standard Finish: [Type 1, prePATINA Blue Gray] [Type 2, prePATINA Graphite Gray].
2. Custom Finish: Contact MetalTech-USA for other types of finishes and colors available for RHEINZINK face sheet.

Note: RHEINZINK is a registered trademark of RHEINZINK America, Inc.

Specifier Note: Select PE Core or FR Core.

- B. PE Core: Low density polyethylene (LDPE).
- C. FR Core: Fire-resistant mineral board.
- D. Back Sheet: Aluminum; ASTM B209-10:
  1. Standard Finish: [Mill] [Protective service coating].

## 2.03 ACCESSORIES

- A. Metal Flashing and Trim: Match material, finish and color of adjacent panels.
  1. Thickness: minimum 0.028 inch [ ] [As detailed].
- B. Self-adhering air barrier membrane, water resistant and vapor permeable:

Specifier Note: Blueskin™ VP 160 is a trademark of Henry Company.

1. Recommended Material: Henry Company; Blueskin VP 160.
- C. Ventilation/Drainage Mat: [ ].

Specifier Note: Enkamat™ is a trademark of Colbond, Inc.

1. Material: [Colbond Building Products; Enkamat 7010] [ ] [As detailed].
- D. Sub-Girts:
  1. Furring Channel: [Hat] [C] [U] [Z] [ ] type [As detailed].
- E. Joint Sealant: [ ] [As detailed].

Specifier Note: Dow 795 Silicone Building Sealant™ is a trademark of Dow Corning.

1. Recommended: Dow 795 Silicone Building Sealant. Contact Manufacturer.
- F. Seam Sealing Tape [ ] [As detailed].

Specifier Note: ETHAFOAM™ is a trademark of Dow Corning.

G. Backer rod: Recommended: [DOW ETHAFOAM SB] [ ] [As detailed].

Specifier Note: Specific fasteners may be required to retain warranty. Please contact Manufacturer.

H. Fasteners: [ ].

Specifier Note: Specific materials may be required to retain warranty. Please contact Manufacturer.

I. Flashing and Trim: [ ].

J. [ ].

#### 2.04 FABRICATION

A. Fabricate and finish metal wall panels and accessories at MetalTech-USA to the greatest extent possible, by MetalTech-USA's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.

### PART 3 EXECUTION

#### 3.01 EXAMINATION

A. Verification of Conditions: Verify that conditions of substrates previously installed under other sections or contracts are acceptable for product installation in accordance with Manufacturer's instructions prior to composite wall panel installation.

1. Ensure structure or substrate is adequate to support composite wall panels.
2. Proceed with installation only after unacceptable conditions are corrected.

B. [ ].

Specifier Note: Specify actions required to prepare the surface, area or site for incorporation of the section's primary products. Describe requirements for exposure or removal of existing assemblies, components, products or materials.

#### 3.02 PREPARATION

Specifier Note: Specify preparatory work required prior to installation/application/erection of primary products.

A. Prepare substrates to receive composite wall panels, and accessories in accordance with Manufacturer's instructions, approved shop-drawings and Section [01 71 00 - Examination and Preparation].

B. [ ].

#### 3.03 INSTALLATION

A. Install composite wall panels and accessories in accordance with Manufacturer's instructions, approved shop-drawings and Section [01 73 19 - Installation].

B. Accurately fit, align, securely fasten and install free from distortion or defects.

C. [ ].

#### 3.04 CLEANING

A. Perform daily cleanup in accordance with Section [01 74 13 - Progress Cleaning].

B. Upon completion, remove surplus materials, rubbish, tools and equipment in accordance with Section [01 74 23 - Final Cleaning].

C. Collect recyclable waste and dispose of as directed.

D. [ ].

Specifier Note: Specify protection methods completed after installation, but prior to acceptance by the owner. Protection of surrounding areas and surfaces during application or installation is included under PART 3, Preparation. Include only statements unique to this Section.

Specifier Note: Coordinate the following Article with Section 01 76 00 - Protecting Installed Construction.

### 3.05 PROTECTION

- A. Protect installed product from damage during construction in accordance with Section [01 76 00 - Protecting Installed Construction].
- B. Repair or replace adjacent materials damaged by installation of composite wall panels.
- C. [ ].

Specifier Note: Specify provisions for maintenance services as applicable to critical systems, equipment, and landscaping. Service agreements, if not paid in advance, should be separate from the construction agreement to avoid delay of final payment and holding the contract open for extended periods.

### 3.06 MAINTENANCE

- A. Coordinate maintenance requirement with Section [01 78 00 – Closeout Submittals] [and] Section [00 78 23 – Operation and Maintenance Data].
- B. Maintain composite wall panel system in accordance with Manufacturer's instructions [and terms of warranty].
  - 1. Inspect composite wall panels and exposed accessories every [6] months to verify proper drainage, integrity of flashings and sealants, and overall condition of composite wall panel system.
  - 2. Clean lightly soiled areas with mild soap and water.
  - 3. Clean heavily soiled areas with light pressure washing.
  - 4. Do not use abrasive cleaners, pads, or brushes for cleaning.
- C. Provide separate maintenance contract for maintenance and repair of composite wall panel system.
- D. [ ].

**END OF SECTION**