

MetaComb™ material (MCM) is a lightweight corrugated paper-core composite for use in lightweight rigid panel-board applications. MCM can be used independently as a standalone product, or to be integrated with a wide range of complementary materials and/or systems. MCM has a high strength/weight ratio, great load-bearing and acoustic properties, offers good thermo-insulation, and is water impermeable. Because of the material's appealing aesthetics and translucence, MCM may be used in decorative and industrial applications. Furthermore, material handling does not require any additional training or skills then those necessary for working with any other composite panel-board material.

## SECTION 06 80 00

### COMPOSITE FABRICATIONS

#### PART 1 - GENERAL

##### 1.1 DESCRIPTION OF WORK

- A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:
  - 1. Lightweight corrugated paper-core composite fabrications fabricated from MetaComb™ material (MCM).

##### 1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's standard product data.
- B. Shop Drawings: Submit shop drawings showing fabrication and installation details. Include plans, elevations, sections, and details. Show anchorage and accessory items.
  - 1. For load-bearing composite fabrications, submit engineered shop drawings, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- C. Samples for Verification: Prior to fabrication, submit a 6 by 6 inch sample for verification of appearance.

##### 1.3 QUALITY ASSURANCE

- A. Manufacturer: Minimum two years experience manufacturing similar fabrications.
- B. Installer: Acceptable to the MCM manufacturer.

##### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store and handle composite fabrications as recommended by manufacturer.

#### PART 2 - PRODUCTS

##### 2.1 COMPOSITE FABRICATIONS

- A. Basis-of-Design: MetaComb™ material manufactured by MetaComb Inc. located at; 28 Dane Street Somerville MA 02143; Web: [www.metacom.com](http://www.metacom.com); Email: [contact@metacomb.com](mailto:contact@metacomb.com)

### COMPOSITE FABRICATIONS

- B. MetaComb™ Lightweight Corrugated Paper-Core Composite:
1. Application: Composite structural insulated panels.
  2. Application: Acoustical floor system.
  3. Application: Acoustical wall system.
  4. Application: Interior decorative panels.
  5. Application: Exterior decorative panels.
  6. Application: Luminescent wall and ceiling panels.
  7. Application: Countertops
  8. Form: Panels, sheets or tiles as applicable.
  9. Thicknesses: 1/4 inch, 1/2 inch, 3/4 inch, 1 inch, 2 inch, and custom as applicable up to 6" thick
  10. Core Grade: Mixed Corrugated Cardboard with high % recycled content.
  11. Core Grade: Mono-sorted Corrugated cardboard.
  12. Core Grade: Corrugated Cardboard with high % of virgin fiber content
  13. Core Grade: Corrugated cardboard with 100% virgin fiber content.
  14. Surface Configuration: Straight (horizontal/vertical).
  15. Surface Configuration: Hexagonal macro-honeycomb.
  16. Surface Configuration: Custom.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine substrates, areas and conditions, with Installer present, for compliance with requirements for existing conditions, installation tolerances, and other conditions affecting performance of installed products.
1. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 INSTALLATION

- A. Install composite fabrications in accordance with manufacturer's instructions and approved submittals and the following:
1. Do not use panels with defects that may be visible in finished work.
  2. Rigidly secure nonmovement joints.

#### 3.3 CLEANING AND PROTECTION

- A. Clean composite fabrications use procedures and materials acceptable to manufacturer.
- B. Protect composite fabrications from damage during subsequent construction until date of Substantial Completion. .

END OF SECTION