

## SECTION 074600

### COMPOSITE CLADDING

#### PART 1 GENERAL

##### 1.1 SUMMARY

- A. Section Includes:
  - 1. Composite cladding.
  - 2. Cladding fastening system.

##### 1.2 REFERENCES

- A. Reference Standards:
  - 1. ASTM E84: Test Method for Surface Burning Characteristics of Building Materials.
- B. Code Reports:
  - 1. UL ER25876-02: Testing for Composite Cladding Materials.
  - 2. CAL-FIRE 8110-2044:0004: Fire Testing for Envision Solid Composite Material.
  - 3. SFM 12-7A-1: Exterior Wall Siding and Sheathing, 2019 CA-RS, Title 24, Part 12.

#### PART 2 PRODUCTS

##### 2.1 COMPOSITE CLADDING

- A. Composite Cladding:
  - 1. Manufacturers and Product - Solid Cladding:
    - a. Envision; **[Distinction]** or **[Expression]**, basis of design.
  - 2. Product Characteristics:
    - a. Board Profile: Square edge.
    - b. Board Dimensions: 1x6 inches solid, nominal.
    - c. Color - Envision Distinction:
      - 1) Grey Wood.
      - 2) Rustic Walnut.
      - 3) Spiced Teak.
      - 4) Shaded Auburn.
    - d. Color - Envision Expression:
      - 1) Harbor Grey.
      - 2) Woodland Bark.
      - 3) Caribou Brown.
      - 4) Canyon Ridge.

3. Performance Characteristics:
  - a. Surface Burning: ASTM E84 Class C.
    - 1) Flame Spread Index: 200, maximum.
    - 2) Smoke Developed Index: 450, maximum.
  - b. Termite and Decay Resistance: Equal to preservative-treated wood. per UL testing.
- B. Cladding Fastening System - Exposed Fasteners:
  1. Manufacturer and Product:
    - a. Envision; Envision Composite Deck Screws.
    - b. DECKFAST; Cap-Tor XD.
    - c. CAMO; Marksman Pro Deck Screw.
    - d. Comparable product submitted and accepted prior to bidding.
  2. Product Characteristics:
    - a. Material: **[Epoxy-coated] or [Stainless steel]**
      - 1) Color: Matching composite cladding.

## PART 3 EXECUTION

### 3.1 EXAMINATION - COMPOSITE CLADDING

- A. Verify supports for composite cladding are compliant with minimums stated in manufacturer installation instructions.
- B. Verify water-resistive barrier installed is acceptable for open joint applications and rated for continuous UV exposure.
- C. Verify ventilation and drainage under cladding surface is provided and acceptable to manufacturer.

### 3.2 INSTALLATION - COMPOSITE CLADDING

- A. Install following manufacturer instructions, approved submittals, and coordination with adjacent construction.
- B. Fasten composite cladding following manufacturer recommended fastener spacing tables.
- C. Follow manufacturer recommendations to allow thermal movement space between planks and ends of planks that butt against structure and adjacent decking.
  1. Side to Side Plank Spacing: 1/8 inch minimum.
  2. End to End Plank Spacing: Varies with temperature at time of installation.
    - a. At 80 Degrees F Installation Temperature: 1/16 inch minimum.
    - b. At 60 Degrees F Installation Temperature: 1/8 inch minimum.
    - c. At 40 Degrees F Installation Temperature: 3/16 inch minimum.

**END OF SECTION**