

# Specifications

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## SECTION 06120 • STRUCTURAL INSULATED PANELS

### PART 1 GENERAL

#### 1.01 SUMMARY

- A. Section Includes: Structural Insulated Panels (SIPs).
- B. Related Sections: Section(s) related to this section include:
  - 1. Section 06100 Rough Carpentry
  - 2. Section 06090 Wood and Plastics Fastenings

#### 1.02 SYSTEM DESCRIPTION

Structural Insulated Panels (SIPs) consist of oriented strand board (OSB) laminated with structural adhesives to an insect resistant EPS insulation core, and SIP Manufacturer supplied connecting splines, sealants, and SIP screws.

#### 1.03 REFERENCES

- A. ACSE 7 - Minimum Loads for Buildings and other Structures.
- B. ASTM C578 – Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
- C. ASTM E1803 – Standard Test Method for Determining Structural Capacities of Insulated Panels
- D. DOC PS2 – Performance Standard for Wood-based Structural-Use Panels.
- E. ICC ES AC04 – Acceptance Criteria for Sandwich Panels.
- F. ICC ES AC05 – Acceptance Criteria for Sandwich Panel Adhesives.
- G. ICC ES AC12 – Acceptance Criteria for Foam Plastic Insulation.
- H. AWWA E12- Standard Method of Determining Corrosion of Metal in Contact with Treated Wood.
- I. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
- J. EPA - Registered products listing.

#### 1.04 SUBMITTALS

- A. Product Data: Submit product data for specified products.
  - 1. SIP Code Compliance: Provide ICC ES code report for SIP with evidence of compliance with code requirements as an alternate method of construction. Submit current compliance report number from ICC ES showing conformance to the International Building Code (IBC) and International Residential Code (IRC). Code report shall include compliance with ICC ES AC04.
  - 2. EPS Code Compliance: Provide ICC ES code report for EPS foam with evidence of compliance with code. Submit current compliance report numbers from ICC ES with conformance to the International Building Code (IBC) and International Residential Code (IRC). Code report shall include compliance with ICC ES AC12.
  - 3. Manufacturer's Instructions: SIP Manufacturer's construction detail book and load design charts.
- B. Calculations: Provide structural calculations by a design professional registered in the state of **[insert state]** qualified to perform such work.
- C. Shop Drawings: Submit shop drawings for SIPs showing layout, elevations, product components and accessories.
- D. Quality Assurance Submittals: Submit the following:
  - 1. Certificate: Product certificate showing compliance to Third Party Quality Control program of Underwriters Laboratories, Inc.
- E. Fire Resistant Assemblies: UL construction number for each fire-rated assembly
- F. Warranty: Warranty documents specified herein.