

2.03 ACCESSORIES

- A. Splines: OSB, PBS Super Splines, or I-beam for use in joining SIPs shall be supplied by SIPs manufacturer.
- B. Fasteners: corrosion resistant SIP screws compatible with SIP system shall be provided by the SIPs manufacturer.
 - 1. Wood Screws for attachment to wood members
 - 2. Heavy Duty Metal Screws for attachment to metal members (16 gauge to 1/4")
 - 3. Light Duty Metal Screws for attachment to metal decks (18 gauge or thinner)
- C. SIP Sealant: Shall be specifically designed for use with SIPs. Sealant must be compatible with all components of the SIP Sealant shall be provided by the SIP manufacturer.
- D. Dimensional Lumber: SPF, #2 or better, or engineered equivalent unless otherwise required by structural drawings.
- E. Vapor Retarder SIP Tape: Tape with an adhesive suitable for indoor use, min. 6 inch wide for use on SIP joints. SIP Tape shall be supplied by the SIP manufacturer.

2.04 FABRICATION

- A. Sizes: SIPs shall be fabricated in accordance with approved Shop Drawings
- B. Thermal Resistance, R-value

*****Note to Specifier*** Select the R-value as required for each area of construction. Typically, 4" & 6" panels are used for walls, 8", 10" & 12" panels are used for floors and roofs.**

- 1. 4 1/2" (114 mm) thick SIP with R-value of 15.0 at 75°F
- 2. 6 1/2" (165 mm) thick SIP with R-value of 23.0 at 75°F
- 3. 8 1/4" (210 mm) thick SIP with R-value of 30.0 at 75°F
- 4. 10 1/4" (260 mm) thick SIP with R-value of 38.0 at 75°F
- 5. 12 1/4" (311 mm) thick SIP with R-value of 46.0 at 75°F

2.05 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted without fourteen day (14) prior approval.

2.06 RELATED MATERIALS

- A. Related Materials: Refer to other sections for related materials as follows:
 - 1. Dimensional Lumber: SPF #2 or better or pre-engineered equivalent: Refer to Division 6 Carpentry Sections.

2.07 SOURCE QUALITY

- A. Source Quality Assurance: Each SIP component required shall be supplied by SIP manufacturer and shall be obtained from selected SIP manufacturer or its approved supplier.
 - 1. Each SIP shall be labeled indicating UL Third Party certification.
 - 2. Provide evidence of UL Third Party inspection and labeling of all insulation used in manufacture of SIPs.
 - 3. SIP manufacturer shall provide Lamination, R-Value and warranty documents for building owner acceptance and execution. Manufacturer's standard forms will be submitted.
 - 4. Provide SIPs with EPS treated for insect resistance. Treatment shall be EPA registered.
 - 5. Dimensional Tolerance - shall comply with values listed in the manufacturer's Quality Control Manual.
- B. Source Quality: Obtain SIPs from a single manufacturer.