



### Standard Insulation Uses and R-Value

The typical insulation thicknesses for a wall panel is 3" or 4" to align with standard wall cross sections. Based on project parameters we can also provide insulation outside of these parameters (i.e., Polyiso or 6" thick).

#### 1. Expanded

Expanded Polystyrene (EPS)  
(EPS, Beadboard)

Expanded Polystyrene, Type I, 1 lb/ft<sup>3</sup>  
R = 4.0/in.

- a. Most cost effective and available
- b. Easy to work with
- c. Provides good Carboncast capacity
- d. Works with c-grid, EMM, Thermomass MST pins, or stainless M-ties



#### 2. Neopor®

Neopor® GPS F5300 Plus (GPS)  
(GPS, Grayboard)

Graphite / Expanded Polystyrene, Type VIII, 1.15 lb/ft<sup>3</sup>  
R = 5.0/in.

- a. Easy to work with
- b. Provides good Carboncast capacity
- c. Higher R-value alternative to Expanded to keep insulation at desired thickness
- d. Works with c-grid, EMM, Thermomass MST pins, or stainless M-ties



#### 3. Extruded

Owens Corning FORMLUAR® 250 (XPS)  
(XPS, Styrofoam, Pinkboard)

Extruded Polystyrene, 2.1 lb/ft<sup>3</sup>  
R = 5.0/in.

- a. Detrimental to Carboncast capacity requiring double the c-grid as Expanded or Neopor
- b. Use in applications where closed cell conditions are required
- c. Works best with Thermomass MST pins or stainless M-ties as not ideal to use for composite panel applications

