

R - VALUE TABLE

	Weight per sq. ft.	Int. Concrete Wythe	Insulation Thickness	Ext. Concrete Wythe	1.0 pcf Expanded Polystyrene R = 4.17 / inch	1.5 pcf Expanded Polystyrene R = 4.5 / inch	2.0 pcf Expanded Polystyrene R = 4.75 / inch	Extruded Polystyrene R = 5.0 / inch
8" Panels								
3"-2"-3" Sandwich	75	3"	2"	3"	9.6	10.3	10.8	12.4
9" Panels								
3"-3"-3" Sandwich	75	3"	3"	3"	13.8	14.8	15.6	18.0
10" Panels								
5"-2"-3" Sandwich	100	5"	2"	3"	9.8	10.5	11.0	12.6
4"-3"-3" Sandwich	88	4"	3"	3"	13.9	14.9	15.7	18.1
3"-4"-3" Sandwich	75	3"	4"	3"	18.0	19.3	20.3	23.5
12" Panels								
7"-2"-3" Sandwich	125	7"	2"	3"	9.9	10.6	11.1	12.7
6"-3"-3" Sandwich	113	6"	3"	3"	14.0	15.0	15.8	18.2
5"-4"-3" Sandwich	100	5"	4"	3"	18.2	19.5	20.5	23.7

- * 1.0 pound per cubic foot expanded polystyrene is standard insulation for sandwich wall panels. 1.0 pcf has an R - value of 4.17 per inch of thickness.
- * A minimum of 6000 psi concrete is standard for precast and prestressed sandwich wall panels. 6000 psi concrete has an R - value of 0.08 per inch of thickness.
- * This chart shows R - values for composite wall systems, which take into consideration the R - values of each wall layer as well as material surface resistance and an air film layer on either side of the panel.
- * Higher insulation R - values can be achieved. Please contact your local IPC representative or IPC engineering for specifics on your project.