

Building Envelope Comparison

System	Stick Built Framing (2x6)	Light Gauge Steel Framing (LGS)	Concrete Masonry Unit (CMU)	Insulated Concrete Form (ICF)	Structural Insulated Panel (SIP)	ThermaSteel 5.5" (CSIP)
Speed of Construction	Medium	Medium	Slow	Slow	Medium	Fast
Structure	Separate	Separate	Separate	Separate	Separate	Included
Insulation	Separate	Separate	Separate	Separate	Separate	Included
Sheathing	Separate	Separate	Included	Included	Included	Included
Vapor Barrier	Separate	Separate	Separate	Separate	Separate	Included
Number of Trades	4	4	3	3	3	1
Rough Openings	Site Built	Site Built	Site Built	Site Built	Site Built	Included
Headers & Sills	Site Built	Site Built	Site Built	Site Built	Site Built	Included
Dumpster	Required	Required	Required	Required	Required	Not needed
Clean Up	Required	Required	Required	Required	Required	Not needed
Thermal Bridging	Yes	Yes	Yes	None	Yes	None
Continuous Insulation	No	No	Add On \$	Add On \$	Add On \$	Yes
Air Infiltration	Yes	Yes	Yes	Yes	Yes	No
R Value	R-19	R-11	Add On \$		R-34	R-35 to R-47
Mold and Mildew	Vulnerable	Vulnerable	Vulnerable	Not affected	Vulnerable	Not affected
Off Gassing	Susceptible	Susceptible	None	None	Susceptible	None
Insects	Vulnerable	Vulnerable	Not a food source	Not a food source	Vulnerable	Not a food source

ThermaSteel's Non-Combustible Assemblies are fire rated for one, two, and three hours. high velocity wind and projectile rating for Miami-Dade, and Seismic rated.

