



# PERFORMANCE COMPARISONS

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	Wood	Masonry	Metal Framing	SIPS	ICF	SBS/SABS	SBS/SABS Summary
Number of Trades Needed for Shell	11	8	11	10	9	4	Only two materials make up shell
Insulating R-Rating	16	19	16	25	22	35	More efficient than any other system
Hurricane Resistance	No	Yes	No	No	Yes	Yes	Tested up to 260 MPH winds
Earthquake Resistance	No	No	No	No	Yes	Yes	Very resistant to seismic activity
Vapor Proof	No	No	No	No	No	Yes	Exceeds vapor threshold by 2x minimum allowed
Mold Resistance	No	No	Yes	No	Yes	Yes	High density coating resists moisture and mold
Percent Recyclable	15%	75%	50%	10%	35%	100%	EPS foam and concrete coating are 100% recyclable
Rodent Resistance	No	Yes	Yes	No	Yes	Yes	No nutritional value for insects and/or rodents
Fire Resistance	Low	High	Moderate	Low	Moderate	Moderate	Flame spread and smoke development of 0
Toxins Produced	High	None	Low	Moderate	Low	Low	Does not produce toxic smoke
Sound STC Rating	32	50	28	40	48	52	Virtually soundproof almost 2x more than conventional
Air Leakage	0.35	0.3	0.35	0.2	.09	.05	Virtually leak proof 7x better than traditional framing
Weight of Wall (Kgs /m <sup>2</sup> )	19.5	244	24,4	24,4	268.5	34.2	Very lightweight compared to strength and capabilities