


# BuildGreen SIPs

Progressive Building Systems for Sustainable Structures



## Comparison to other materials

Attribute		Portland Cement Board	Gypsum Wallboard	Gypsum Sheathing	Plywood	O.S.B.
People Safe	Yes	No	No	No	Yes	No
Fire Suppression	Yes	No	Slight	Slight	No	No
Flame Spread	0	0	Low/15	Low/10	High	High
Smoke Developed	None	None	Low	Low	High	High
Water Resistant	Yes ***	No	No	No	No	No
Mold/Mildew Resistant	Yes	Yes	No	No	No	No
Vapor Permeable	Yes	No	No	No	Negligle	Slight
CO2 Footprint	Low	High *	High *	High *	Low **	Moderate
Termite Resistant	Yes	Yes	Yes	Yes	No	No
Thermal Insulation R-Value per Inch	1.2	0.8	0.9	1.1	1.2	1.0
Impact Strength	High	Medium	Low	Low	High	Medium
Weight lbs/sq.ft.	2.1	2.9	1.9	2.4	1.6	2.0
Combustibility	Non/Com PerUL	Non/Com	Facing	Facing	Burns	Burns
Structural	Yes	No	No	No	Yes	Yes
Freeze/Thaw	Good	Good	Poor	Poor	Good	Good

Note: Data are for nominal 1/2" sizes which can vary from 11-15 mm across the products above.

\* Only Moderate if they recycle significant quantities of Fly Ash, which then increases the People risk factor

\*\* Assuming that it is wood from a sustainable re-forestation program

\*\*\* Formulation and manufacturer dependant, most Chinese materials are not

## BuildGreen SIPs

8 Saratoga St., Cohoes, NY 12047

Phone: 518-727-4772

Fax: 888-528-1573

[info@buildgreensips.net](mailto:info@buildgreensips.net)

