Environmental Responsibility: Buildings account for a large percentage of CO2 emissions globally. Both in their construction and ongoing occupation. It's important to consider ways in which we can reduce our carbon footprint. Formance panels are made from Oriented Strand Board (OSB), and Expanded Polystyrene (EPS), two very good choices that provide environmental benefits for the life of the product.

EPSMA Study: The Expanded Polystyrene Molders Association (EPSMA) in the USA commissioned industry leading Franklin Associates to conduct a life cycle assessment of SIPs with EPS insulation, for Global Warming Potential (GWP) measured in tons of CO_2 equivalent. The study quantified the energy use and emissions associated with SIP production and compared this with the savings in energy and greenhouse gas that result from the use of SIPs compared to traditional timber framed construction. The life cycle stages evaluated included all steps in the production of the panels from raw material extraction, manufacturing and shipment to the project site, as well as the ongoing heating and cooling costs over the life of the building.

Construction Materials Impact

	Energy Investment Millions BTUs	GWP Investment in tons CO_2 Equivalent
SIP	177.1	9.63
Traditional Framing	110.4	5.87
Investment	66.7	3.75

Lifecycle Payback

	Energy Savings Millions BTUs	GWP Savings in tons CO_2 Equivalent
SIP Annual Savings	13.2	0.99
SIP Savings – 50 yrs	660	49.6
Payback	5.1 years	3.8 years

OSB: The Oriented Strand Board used in Formance SIPs comes from renewable resources. OSB utilises 90% of the available timber on a tree, compared to <30% on structural grade timber.

EPS: The Expanded Polystyrene used in Formance SIPs is fully recyclable. Production offcuts and test samples are separated from the OSB skins and are recycled as part of the regular production cycle.

Formance Eco Friendly

The Formance Panel is eco-friendly

If you're wanting to be eco-responsible you must consider Formance.

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SUSTAINABLE FORESTRY INITIATIVE

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