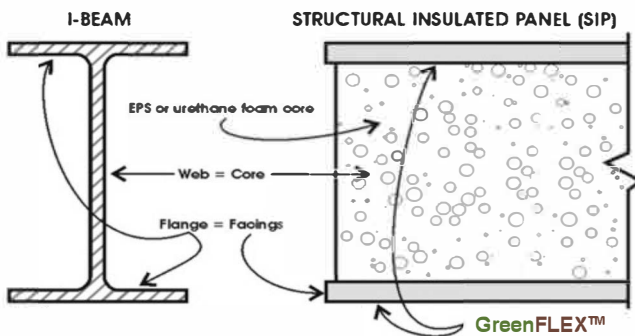


GreenFLEX™

By 20 Twenty Sustainable Manufacturing Inc

Structural panels

Structural insulated panels (SIPs) act as a structural I-beam by using a lightweight, super-insulating EPS foam core clad by thin structural facings on each side. This is a superior composite construction system that is stronger than wood frame construction, yet with better insulation value, air tightness, as well as a significantly reduced use of raw materials. SIPs are a proven technology that has been around since the 1930's.



GreenFLEX™

We build structural insulated panels exclusively with our proprietary GreenFLEX™ reinforced cement structural skins. GreenFLEX™ is a new generation material that is solid and rigid like concrete, yet flexible like plywood when overloaded. GreenFLEX™ is solid all the way through, more durable than regular portland cement, yet contains no wood fiber. GreenFLEX™ provides all the advantages of both wood and concrete but without their disadvantages.

GreenFLEX™ structural facings are like concrete in that they are noncombustible, moisture and mold resistant, and can not rot. Like wood, GreenFLEX™ has the ability to absorb energy by bending when severely overloaded. From extreme weather to natural disaster, GreenFLEX™ is built to last.



A 2" thick GreenFLEX™ test panel is carrying 5 times the equivalent of a 40 pound per square foot snow load. Yet instead of breaking, it simply flexes to absorb the extreme overload.

Ecofriendly

GreenFLEX™ structures are 99% recyclable, consisting solely of recyclable EPS foam and GreenFLEX™ cement facings. GreenFLEX™ is so strong that we can use much thinner sections than would be required of normal concrete. We also manufacture GreenFLEX™ to the exact size and shape of each component, meaning no waste from cutting sheet goods to size, or cutting out window and door openings. All this translates into a 98% reduced carbon footprint compared to a solid 6" concrete wall - and further reduced emissions due to ultra-high energy efficiency and 99% recycle-ability.

Economical

Manufacturing GreenFLEX™ facings to full size and shape eliminates the need for drywall, tape and texture or additional exterior siding - dramatically reducing upfront cost. When you add GreenFLEX's™ ability to provide you upfront construction cost savings plus it being a superior insulated product with unrivaled long term durability and disaster resistance, the result is GreenFLEX™ bringing you savings that will last a lifetime.

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