

STARWALL

MOVABLE WALLS



ENVIRONMENTAL STATEMENT

Manufacturing of any kind places burden on the environment. Environmental responsibility begins with a product's ability to support significant change and reuse. Keeping this in mind, Starwall leads the way in product reuse and supports sustainable building design.



StarwallUSA and Our Unique Commitment to the Environment

There is no dispute about the amount of waste and energy consumption attributed to the construction, maintenance and operation of commercial buildings in North America. Today, facilities Managers, architects, designers, etc., have made great progress on answering the question on "how to meet the current needs of business without compromise to future generations". We have learned much and have much work to accomplish to reverse some of the following findings that represent a small amount of data for an industry that can have a dramatic impact on our energy and waste.

- United States Environmental Protection Agency - Approximately 30% of all landfill waste is from construction, renovation and demolition. Over 55% is from buildings.
- California Integrated Waste Management Board, 2002 – Over 10% of drywall in new construction ends up as scrap.
- Cornell University Study concluded that for every square foot of drywall installed one pound was waste.
- U.S. Dept of Energy – Commercial Buildings in the U.S. use 17% of all energy.
- U.S. Environmental Protection Agency – Of the 14 Sectors that account for 84% of all Green House Gas (GHG) emission, the construction industry was the 3rd highest with 6% of all GHG emissions.

The above are but a few of the statistics that clearly demonstrate the impact of commercial building construction on our planet...but the impact is equally as great to our people and profits. Our thinking must change from build, demolish, dispose and re-build to reduce, reuse and recycle. All sectors must take responsibility so that through our collective stewardship we can make a lasting impact on our environment.

StarwallUSA's new approach to supporting the "triple bottom line"

Manufacturing of any type has an impact on the environment. Environmental responsibility begins with a products ability to support significant change and reuse. StarwallUSA has spent much time considering 2 very important aspects of sustainable product design; *product reuse* and *product recycling*. It is our belief that our new generation of movable architectural walls considers all aspects of the "triple bottom line".

What separates StarwallUSA and our platform of products from earlier generation of walls, both "unitized" or "pre-engineered demountable" wall panels, is our unique product design. The unique track and stud system with snap fit wall board and glazing options deliver a new generation of interior movable walls. Our "truly demountable" approach, with "field assembly and fit" allows for a responsible reuse and recycling strategy like no other product in the market today - without the cost.



Potential StarwallUSA LEED – CI Points

The use of StarwallUSA's products can significantly contribute to the acquisition of the following LEED credits. These credits, upon review of product and material usage and project and design strategy, can provide either a "direct" or "significant" impact on your LEED project.

Energy & Atmosphere

- EA – 1.1 Optimize Energy Performance, Lighting Power, 1 Point

Materials & Resources

- MR – 1.2 Building Re-Use, Maintain 40% of Interior Non-Structural Components, 1 Point
- MR – 1.3 Building Re-Use, Maintain 60% of Interior Non-Structural Components, 1 Point
- MR – 2.1 Construction Waste Management, Divert 50% from Landfill, 1 Point (Note if MR credits 3, 4, 5, 6 and 7 are used, this credit does not apply)
- MR – 2.2 Construction Waste Management, Divert 75% from Landfill, 1 Point (Note if MR credits 3, 4, 5, 6 and 7 are used, this credit does not apply)
- MR – 3.1 Resource Reuse, Specify 5%, 1 Point
- MR – 3.2 Resource Reuse, Specify 10%, 1 Point
- MR – 4.1 Recycled Content, 10% (post consumer + ½ pre-consumer), 1 Point
- MR – 4.2 Recycled Content, 20% (post consumer + ½ pre-consumer), 1 Point
- MR – 5.1 Regional Materials, 20% Manufactured Regionally, 1 Point
- MR – 5.2 Regional Materials, 10% Extracted and Manufactured Regionally, 1 Point
- MR – 6 Rapidly Renewable Materials, 1 Point
- MR – 7 Certified Wood, 1 Point

Indoor Environmental Quality

- EQ – 4.1 Low-Emitting Materials, Adhesives & Sealants, 1 Point
- EQ – 4.2 Low Emitting Materials, Paints, 1 Point
- EQ – 4.4 Low Emitting Materials, Composite Wood and Laminate Adhesives, 1 Point
- EQ – 8.1 Daylighting & Views, Daylight 75% of Spaces, 1 Point
- EQ – 8.2 Daylighting & Views, Daylight 90% of Spaces, 1 Point
- EQ – 8.3 Daylighting & Views, Views for 90% of Seated Spaces, 1 Point

Innovation & Design Process

- ID – 1.1 – 1.4 Innovation in Design, 4 Points (available)
- ID – 2 LEED Accredited Professional, 1 Point

Starwall Feature/Benefit "Green" Differences

.....keeping it affordable
...keeping it simple
...keeping it real

- Unparalleled Product Reuse strategy
... minimal kit of parts with simplicity of product design.
 - All parts are 100% reusable
 - Reuse capability in varying dimensioned buildings and floors
 - Reduces landfill waste
 - Less than 10 part SKU#'s to accommodate installation
- Modular Field Assembly with Field Fit Capability
...change panel width, height, and configuration easily and quickly.
 - Compress construction schedule due to product fit capabilities save time, money and energy
 - Ability to change panel height
 - Ability to change panel width
 - Ability to change panel face configuration and finish
- Ability to support "daylight harvesting".
...connect employees to the environment while reducing energy costs.
 - Solid panels easily converted to glass with minimal added time and costs
 - Inexpensive use of glass for clearstory
 - Ability to provide single and double pane glass fronts affordably
- Ability to integrate use of regional materials
...product allows for use of standard construction materials made right next door.
 - Ability to utilize regional material accounting for 75% of material weight
 - Utilize glazing from local glass tempering facilities
- Recycled and recyclable content
...entire product can be dropped off at local recycling center.
 - All parts are 100% recycled
 - Utilizes aluminum and steel frames
 - Ability to utilize PET and other recycled materials for insulation
- Easy and cost effective recycling
...eliminate time or cost beyond teardown to prepare material for recycling.
 - No additional time required to disassemble panel to prepare for recycling
 - Product in shipped or disassembled condition ready for recycling without added labor cost
- Minimizing Volatile Organic Compounds and Green House Gases.
...product construction process and design supports reducing harmful gasses.
 - Powder Coating process emits no VOC's
 - Ability to integrate non-VOC emitting insulation
 - Ability to utilize local regional materials reduces shipping related pollutants
 - Adhesives are water based or solvent free
 - Meet or exceed LEED criteria
 - Material available in water based stains and paints