



The Powerful Advantages of Specifying Kalwall...

1. Advanced Daylighting Technology

Recognized inventor with over a half century of development, innovation, discovery, leadership and acclaim.

- Developed concept of Museum-quality Daylighting™ now emulated everywhere, but never really duplicated...
- Consistently invented ways to deliver the highest insulating, diffuse-light transmitting system in the world...



- In-depth, hands-on involvement with parallel technologies to continue advancing daylight delivery systems, including...
 - Passive and active solar heating materials and systems
 - Thermal storage with water and salts; aquaculture vessels
 - Composites of wood, metal, polymers, and fibers
 - Advanced structural systems and experimental materials

All leading to further advances in the daylighting state-of-the-art.

2. Maximum Environmental Benefits

Producer of sustainable fenestration systems before the term was invented.



- The world's most versatile daylight creates the ultimate environment for...
 - working - learning - growing
 - playing - showing
- Proven health and productivity benefits with the right kind of light...
 - Spectral transmittance is a virtual duplicate of the sun, to which the human eye has evolved
 - Double diffuse transmitted daylight in relatively low levels... preferred as a low-cost, solid-state solution in walls and roofs
- Efficient materials utilization...
 - Kalwall composite is an ingenious combination of lightweight, high-strength materials with no waste in material or energy to manufacture

- The Clamp-tite installation systems are efficiently designed to perform their basic functions of rapid installation, weather sealing, fire and seismic safety

- High recyclable content...

- Glass fiber, aluminum, and FRP sheet are all recyclable if cost effective, and most of the raw materials are derived from recyclables...

Kalwall — reusable, maintainable

Proven long-term well-being, comfort and productivity in a naturally daylighted environment with materials that do not clog the landfills. Kalwall is one of the original “green” demonstrations.

3. Unique Composite Expertise

Long-term performance and system efficiency through effective materials engineering.

- Large, lightweight structural building panels are proven in use...



- Kalwall manufactured windows, metal-faced spandrel panels and louvers, as well as a wide variety of standard and optional installation components for translucent Walls and Skyroofs™, expand our composite expertise...
- Factory preassembly of panels and Kalwall components saves jobsite time, ensures weather resistance, and further interior/exterior finishing expense...
- Panels are a component in mega-composite structures, from self-supporting ridge and Kalcurve™ skyroofs to massive aluminum/Kalwall buildings...
- The composite technology, while continually evolving, has withstood the test of long-term field use...

- Safety and security maintained under severe stress and strain...

The Kalwall sandwich panel has never been successfully duplicated due to intensity and depth of research and development devoted to perfecting the art of composite fabrication.

4. Performance as Cladding in a Wall or Roof

Decades of real-world experience and system innovation to meet expected performance under virtually any condition.



- Kalwall's resistance to long-term weathering unparalleled, as a result of polymer/glass fiber development and proprietary processing equipment...
- The combination of solar heat gain and thermal heat gain or loss properties is unique to the Kalwall panel and system...
- Insulating and solar properties are certified in system form for direct comparison to alternate systems...
 - The Kalwall thermally broken, structural I-beam core is the most effective thermal barrier while providing additional permanent structural and fire-performance benefits
 - Trade-off options to balance light transmission, U-value and solar heat are available to match any building environment

- Fire protection characteristics include systems with FM and BS Class I Wall Panel and Class A Roof Panel systems...
- Additional safety and security requirements for impact, pressure relief, high wind resistance and airborne debris are part of the system options. DoD/GSA compliance to UFC 4-010-01...

Overall Building Code compliance for most any application is achievable far beyond the "Plastics" chapter, as Kalwall has a proven track record of safely enclosing buildings and can be manufactured in many configurations to meet the performance expected.

5. Design and Aesthetic Flexibility

Architectural and functional versatility from experience throughout the world, including award-winning designs year after year.



- Our eight related but different systems form the basis of the ability to be flexible...
- Grid patterns can be altered with some trade-off in cost and structure...
- Shapes of panels and their installed configurations can run the gamut: flat, curved, segmented, triangular, or just plain custom...
- Color, textures and contrast are accomplished by changes in face tint and tone, insulation density and color, and system color and emphasis...

Kalwall has been, and continues to be, noted in the trade press as part of the design of award-winning buildings.

6. Support and Service to Customers

Feedback from thousands of users over many years has shaped the level, quantity and quality required, maintaining clear market leadership.

- Engineering services to include structural analysis; chemical, fire code and lighting design advice...
- Back-up performance testing reports and certificates to ease the regulatory and assurance process...



John Caron, School Building Superintendent of Maintenance, Gardner, Mass. (left), with Kalwall representative Fred Pope.

- Installation service and training...
- Door-to-door delivery by Kalwall or designated transport...
- Aircraft assistance for jobsite and factory tours...
- Long-term business partners located throughout the Americas and UK to assure the continuity of professional service required...

Of course, the continued investment in pushing the envelope in product and system performance, in many ways not immediately evident, is a service to our customers and an assurance that we are totally dedicated to the advancement of the industry we have created.

7. As boastful as it may sound, we humbly submit... there really never can be an equal to Kalwall!

And that, simply put, is Kalwall's most Powerful Advantage.

The continuity of private entrepreneurial ownership, dedication to research and development of the perfect "Ecopanel," and continual investment in providing unquestionably reliable performance cannot be duplicated.

The Bottom-Line: Exactly what are the proprietary innovations?



- Weathering Systems
- Structural Integrity
- Fire Performance
- Energy Savings and Production
- System Reliability
- Unique Aesthetics



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Kalwall Since 1955 **50⁺ Years of Innovation!**

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