

Since 1955  
**Kalwall**<sup>®</sup>

# **Anti-Terrorism Force Protection**

**Diffuse Daylighting as a line of defense in occupant safety**





United States Navy Base



*Kalwall's diffuse daylighting properties provide glare-free, balanced lighting that is ideal in any office or working environment. Computer screen glare and harsh reflections from sunlight are eliminated.*



## Anti-Terrorism Approved

Kalwall provides the first line of defense for occupants of a building who would be otherwise visible from outside the structure. The Kalwall translucent panel system provides diffuse daylighting of a space while disrupting would-be terrorists' ability to see inside a building.

Should an explosion occur, the inherent properties of the unique Kalwall system can be a primary contributor to minimizing the impact upon occupants. The explosion-absorbency and high, flying-debris standards of the Kalwall system have all been extensively tested and researched.

Incorporating Kalwall into a new building provides an endless variety of opportunities to sustain daylighting in a space while responding to the needs of terrorism security. But Kalwall can also be easily retrofitted into an existing building. Installation is fast, non-disruptive and economical.

## Blast-Resistant Wall Technology

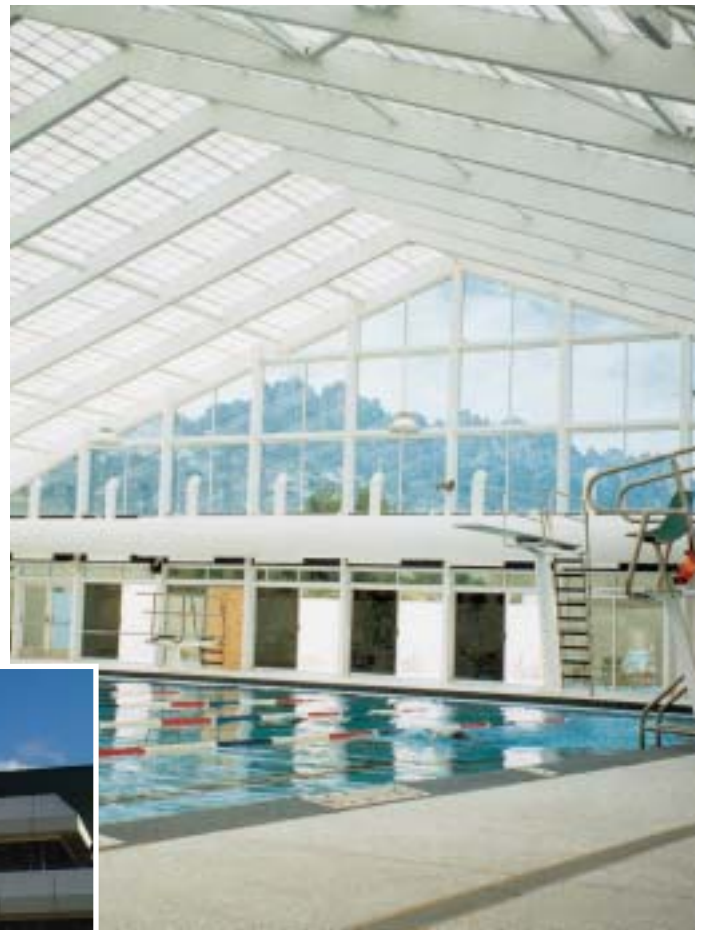
Typically, the various components of a building fail once they are subject to the forces of an explosion or impact. Once freed from their static positions, they become deadly projectiles. In a blast scenario, this is the major cause of injury or death, not the shrapnel from the explosive device itself. Kalwall transfers the force of an explosion to the superstructure of the building, distributing it in more non-lethal directions while protecting the occupants. Reducing or eliminating flying debris increases the survivability rate.

Kalwall Corporation's revolutionary "Blast-Resistant" technology allows natural daylight into the occupied space of a building while still providing a significant degree of protection to those inside from the hazards of airborne debris following an explosion. The unique composition of Kalwall structural panels, combined with additional restraining components, demonstrates equivalent or superior performance to the stringent UFC 4-010-01 DoD and GSA Anti-Terrorism Standards for Building Designs.

Applied blast loads from one to six psi and varying durations put to the test several configurations of Kalwall panels, including the energy-efficient, thermally broken models. While the panels were damaged at the higher blast loads, no flying debris was generated and the panels were retained in the opening.

**Occupants visible from a building's exterior can be an easy target for terrorism. And should an explosion occur, flying glass and debris from the building itself can be far more lethal than the bomb's own fragments.**





White Sands Missile Range, White Sands, NM

*Kalwall Corporation's translucent systems protect occupants from line-of-sight outside the building, while filling the interior space with balanced daylight.*

## Kalwall comes in many forms.

Kalwall can be all or part of the roof or walls of any new or existing building, skylights, Skyroofs™, wall and window systems and even entire, freestanding structures.

**Explosion-tested and approved to Unified Facilities Criteria UFC 4-010-01 for anti-terrorism standards. Shatterproof and minimizes flying debris. Rigorously explosion-tested based on GSA and DoD criteria.**

Also provides:

- Super insulation • Possible LEED™ credits • Museum-quality daylighting
- Solar control • Virtually maintenance-free • 50-year track record
- Installed in military/GSA/government facilities worldwide

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

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