

*International Materials Inc.*  
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**Sure-Board® “for Shear” @ Sureboard.com**

Gentlemen and Staff

Intermat, Cemco and Wellbilt International have been in the business of manufacturing and supplying the most effective seismic and wind resisting shear panel for more than a decade.

In July of 2004, the United States Department of State (DOS) installed our product on their test assembly at the Kirtland AFB Blast test facility in New Mexico. They were using Sure-Board® Series 200 to attempt to control the migration of drywall debris into the enclosure to prevent injury to potential occupants inside the structure in the case of a possible terrorist attack such as those of September 11th in New York City, Washington D.C. or Oklahoma City.

The main focus of this specific test program was to test a construction technique that might be organized to retrofit hundreds of U.S. Embassies on foreign soil Worldwide. The physical location of many of these structures did not allow for adjusting the setback from the anticipated blast either. Therefore the DOS was forced to increase the blast force considerably (Approximately 45 psi at 100 foot setback). After the initial test in New Mexico, we contacted the DOS Project Engineer, Mr. Russell Norris PE, and he invited us to attend the scheduled November 2005 blast test at Eglin AFB in Florida. Upon witnessing that test personally and up close, we developed a series of structural changes to our original Sure-Board® Series 200 Panels. This process initiated the development of our Series 200B Blast/Ballistic Panels.

In July 2007 we supplied and tested along with the DOS three separate Sure-Board® Series 200B blast walls that yielded tremendous resistance to blast and included one assembly with granular filled wall cavity to test the inclusion of mass on the blast wall. The results demonstrated that a standard Cold Formed Steel framed wall, sheathed with our products could withstand the GSA accepted standard of 10 psi and still be safe and absolutely survivable in all cases. The peak pressure measured of over 23 psi is more than twice that required by GSA Standard today.

In August 2007 we were invited to attend another DOS test at the EMRTC facility in Socorro, New Mexico. We were invited to participate in a free standing building

test with the DOS. The intent of that test was to attempt to build a free standing structure that would resist the prescribed 45 psi blast pressures and be constructed in a manner that would allow it to be built beside another existing structure. This approach was for personnel safety for the staff in the case of an attack. We supplied our Sure-Board® Series 200B product for this test. It had by this stage evolved and the DOS wanted to see the advantage of our product when installed on the inside of the room opposite a plywood sheathed wall that was also filled with ballistic mass for bullet protection. After the test, we were all astounded that the structure could actually withstand two separate blasts and still be structurally sound. Regarding the performance of the interior sheathings, we were all convinced that if plywood was used, the debris would not be controlled to a safe velocity. As for the Sure-Board® panels, if the blast framing design had incorporated un-punched C-studs instead of punched, the Sure-Board® sheathing would not have been affected by the blast. Most important was the fact the fill and the sheathing never left the wall to cause potential injury to the occupants at all.

These tests combined with several independent ballistic tests have formulated our proprietary kevlar ballistic bag to work in conjunction with our Sure-Board® Series 200B and has created one of the most economical methods of Blast and Ballistic protection that is available Today.

Please take a moment and look through our binder and view the attached video and pictures that have been included. These tests and exemplary results have allowed Sure-Board® to be engineered into several current U.S. Military facilities, VA hospitals, International Airports, Florida Supreme Courthouse and other high risk projects Nationwide. The Sure-Board® Series 200B panels are readily available across the United States and meet the GSA and DOS domestic standards Today.

Our technical staff at Intermat will strive to meet your specific needs with regard to Shear Resistance, Fire Resistance, Blast Resistance and the safety of Ballistic Resistance to Level 8 as well.

If you would like a presentation for your clients and staff please contact our National Sure-Board® technical department at the following address:  
email: [support@sureboard.com](mailto:support@sureboard.com)  
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