

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

History of Development and Testing for **Sure-Board® Series 200B**

July 2002

Independent Article by Karagozian and Case "Modeling Blast-Resistant Protection Systems Composed of Polymers and Fabric" Sure-Board® was modeled as the exterior sheathing.

July 2005 Kirtland AFB, New Mexico

Article written in the LGSEA monthly publication authored by Mr. Russell Norris P.E. with the U.S. Department of State. Referencing the use of Sure-Board® Series 200 to control debris within a structure that was being blast tested at Kirtland AFB in New Mexico.

August 2005

Article also authored by Mr. Norris in this Issue of Structure Magazine describing the same test assembly in New Mexico. Before and after pictures are available to demonstrate the destruction while using 1/4" plate on the exterior of the building curtain wall with tremendous pressures being tested.

November 2005 Eglin AFB, Florida

DOS invited Intermat to witness this blast test at Eglin AFB in Florida to verify the safety performance of two different wall sheathings: 1) Sure-Board® Series 200 in one cube 2) Blocked drywall in the other. In addition there were many other samplings being tested as well. The results of the two interior wall sheathings was obvious. The drywall was dangerous to deadly and the Sure-Board® side was very safe, though Sure-Board® 200B was not yet improved. We were about to enter the exciting phase of Sure-Board® Series 200B for Blast. Follow along and I think you'll see what I mean.

May 2006 UL 752 Ballistic

Article in LGSEA monthly publication explaining the value of Sure-Board® to resist the penetration of ballistic projectiles and how it will make the construction of the typical safe room or secure facility easy and economical to build. We have now developed a Kevlar bag approach that is very easy to use.

This same Kevlar bag can increase your normal UL752 Level 3 to a Level 8 with just a dry granular fill included.

July 2007 Preparation for Blast Test Kirtland AFB

We have included the design drawings that we used to fabricate the three separate wall assemblies for Kirtland Test with the DOS. Walls were designed by Intermat to resist significant blast loads and certainly did that well. We realized that the GSA standard domestic blast loads were a very simple task with Sure-Board® Series 200B. The photos attached to report show Sure-Board® test assemblies before and after. I believe we passed the test. The DOS test was a success as well. They are still working out the details and the welding is really expensive to complete. We used screws throughout. Fast and Simple.

September 2007 EMRTC Socorro, New Mexico

We were invited to witness the Free Standing Building Test with the DOS. We supplied Sure-Board® Series 200B panels and they were installed on the inside of the second wall to be blast tested. The AVI high speed digital film of the tests that we have available show the results. Sure-Board® Series 200B was a success as was the entire testing program. We are happy to supply video upon request as well.

January 2008

Article written by Intermat Engineers describing results of testing that was performed in Kirtland AFB, New Mexico test with the DOS.

February 2008

Article written by Laticrete to emphasize the advantages using the Sure-Board® Series 200B Blast panels along with their approved waterproof and very strong adhesion products for a complete waterproof blast wall finish.

February 2010 Finalized UL752 Testing and Passed Level 3/8

The research and development department of Intermat and Cemco have been performing ongoing UL 752 approved Ballistic Testing. **(Copies of actual tests available upon request)**. We are also planning to develop more specialized energy dissipating hardware to include into your standard construction project soon. The current methods are adequate for now, but we believe, at Intermat and Cemco, that we can develop an even better blast protection system for your needs Today. Let Sure-Board® be your choice.

March 2011

We completed our Blast Simulator Tests with the University of California, San Diego in conjunction with PTG-Protective Technologies Group to demonstrate the use of our

Sure-Board® Series 200B panels with generic 16 gage CFS or expanded foam insulated wall assemblies that will withstand the current GSA, DOS and U.S. Army Corp of Engineers required standards for all levels of Blast Resistance for new and retrofit building construction Today.

Upcoming 2011

We currently preparing to initiate and successfully complete the required testing for the "Forced Entry of Structural Systems Standards" per U.S.Department of State, Bureau of Diplomatic Security, **SD-STD-01.01, Revision G (Amended) April 30, 1993**, at the UCSD Test Facility. This will certify the use of our panels in High Security Private Sector/Military and Law Enforcement Facilities for Blast/Ballistic **and** Forced Entry Protection at a very affordable cost.

Please stay connected with Sure-Board® and our Future Products Line through our website:www.sureboard.com and our technical staff at our email address: support@sureboard.com for our NEW and UPDATED certifications for your specific needs.

Your may also contact our Research / Development Department with any of your specific design questions at our Technical Support Line Toll free : (866) 469-7432

Thank You for Choosing Sure-Board® Today for your Buildings for Tomorrow.