



Who We Are

The Debris Impact Facility (DIF) is an A2LA accredited ISO/IEC 17025-2005 test laboratory. DIF offers accredited storm shelter, safe room, commercial and residential door, window, and other components testing in accordance with FEMA 320, FEMA 361, ICC-500, Florida Building Code, including structural performance of exterior doors, windows, curtain walls, and skylights by Uniform Static Air pressure testing, determining the ability of elements of the building envelope to remain unbreached during severe windstorm event, including hurricanes or tornadoes.

Contact Us

TTU NWI Debris Impact Facility

1009 Canton Ave. MS 3155
Lubbock, TX 79409

Phone: (806) 894-3220
Email: larry.tanner@ttu.edu

Visit us on the web:
www.depts.ttu.edu/nwi/research/DebrisImpact



NATIONAL WIND INSTITUTE DEBRIS IMPACT FACILITY

TEXAS TECH UNIVERSITY



What We Do

The Debris Impact Facility (DIF) is intended to promote public safety and welfare and helps prevent deaths and lower property losses incurred due to extreme weather events and their effects. DIF performs debris impact tests on storm shelters, shelter components and building materials in order to develop the safest, most impact-resistant materials to better protect individuals.

Verification Process

The Debris Impact Facility has implemented a new "Verification" process. We provide 10 product verification labels, once your product has passed testing. Each additional label is \$5.00 each. Each product verification label is specific to the MODEL # given in your testing report. We require re-test of products every five (5) years in order to keep your verification information current.



The heart of the DIF is a pneumatic cannon that plays an important role in researching effective tornado shelters for use in homes and other structures. The cannon is used to develop standards for safe above ground shelters, and continues to be in demand for testing new shelter materials and constructions.

The DIF cannon is capable of producing tornado impacts related to a 250 mph ground speed tornado (100 mph horizontally at vertical or near vertical surfaces and/or 67 mph vertically at horizontal surfaces inclined less than 30 degrees.)

