

TESTED SHELTERS

Wind Science and Engineering Research Center

The Wind Science and Engineering Research Center performs debris impact tests on storm shelters, shelter components, and building materials to evaluate their ability to resist various types of projectiles propelled at different speeds in accordance to accepted and proposed test protocols as follows:

Protocols for Debris Impact Testing

Protocol 1	Hurricane envelope impact by a 9 lb. wood 2"x4" propelled at 34 mph. In accordance to the Florida Building Code, the International Code Council and the Texas Dept. of Insurance Windstorm Resistant Construction Guide.
Protocol 2	Hurricane Shelter Speed impact by a 9 lb. wood 2"x4" propelled at 0.40 x the design wind speed (mph) for horizontal impacts and 0.10 x the design wind speed (mph) for vertical impacts, in accordance to the proposed ICC 500 ¹ – ICC/NSSA Standard for the Design and Construction of Storm Shelters.
Protocol 3	Hurricane shelter speed impact by a 9 lb. wood 2"x4" propelled at 0.50 x the design wind speed (mph) for horizontal impacts and 0.33 x the design wind speed (mph) for vertical impacts, in accordance with FEMA 320, "Taking Shelter from the Storm," 2008 Edition and FEMA 361, "Design and Construction Guidance for Community Saferooms," 2008 Edition.
Protocol 4	Tornado shelter speed impact by a 15 lb. wood 2"x4" propelled at 100 mph for horizontal impacts and 67 mph for vertical impacts, in accordance with FEMA 320, "Taking Shelter from the Storm," 2008 Edition and FEMA 361, "Design and Construction Guidance for Community Saferooms," 2008 Edition.
Protocol 5	Department of Energy (DOE) impact standards.

¹The ICC 500 – ICC/NSSA Standard for the Design and Construction of Storm Shelters is scheduled for inclusion in the 2009 editions of the International Residential Code and the International Business Code. This is a Life Safety Standard which will use an Extreme Wind Map for Hurricanes with wind speeds starting at 225 mph and with contours along the Atlantic and Gulf Coast stepping inland in 10mph increments to 160 mph.

Listing does not imply product endorsement or warranty by TTU, FEMA or NSSA. **Unless otherwise noted, the following listings have been tested to Protocol 4, the Tornado Standard Protocol.**

Shelter Manufacturers Completing Debris Impact Tests

2nd Chance Shelters

Ron Vanderslice
5004 E 110th St
Tulsa, OK 74137 – 7262
Ph. (918) 296 – 0929

Tested: 08/00
Aboveground 76" x 52" steel panel shelter,
Belowground steel panel shelter (Model 99)

Alabama Storm Safe

Mr. John Davis
10313 U. S. Highway 11
Springville, AL 35146
Ph. (205) 467 – 0177

Tested: 06/02
Aboveground shelter

All Weather Saferooms

Kevin Julian & Dick Ault
P.O. Box 8091
South Port, Florida 32409
Ph. (850) 258-2752

Tested: 08/08
48"x72"x84" plate steel above ground shelter

Alternative Construction Technologies, Inc.

Ms. Nadia Komarowski
992 Winterberry Drive
Marco Island, FL 34145
Ph. (941) 394 – 1717

Tested: 07/99
Aboveground steel panel shelter

Armor Vault

Mark Webb
729 SE 29th
Oklahoma City, OK 73129
Ph. (405) 634 - 2841

Test Date: 7/14/03
4'-6" x 6'-0" x 6'-2" Steel shelter
Test Date: 7/14/03
4'x6'x6' tall steel above ground safe room

Autoquip

Charles Cherry
P.O. Box 1058
Guthrie, OK 73044-1058
Ph. (405) 282 - 5835

Tested: 08/99
Aboveground steel panel shelter

B & M Shelters

Mr. Dale Miller
HC 60 Box 2912
Lawton, OK 73501
Ph. (580) 492 - 4158

Tested: 02/02
Panelized steel above ground shelter

Bed Bunker

Roger Hatcher
104 Joan Dr.
Divernon, IL 62530
Ph. (334) 477-8339

Tested: 5-11-07
Steel above ground shelter

Jim Briscoe

16800 N. Council Road
Edmond, OK 73003
Ph. (405) 672-2323

Tested: 04/99
4' x 6' aboveground welded plate steel shelter

DAMAR Tornado Safe Bed

Dale Watson
113 Hollyberry Lane
Georgetown, TX 78628
Ph. (866) 864-1352

Tested: 10/99
5'x 6'x 2' aboveground welded plate steel shelter

Dupont Stormroom with Kevlar

Laura Dwyer
Chestnut Run Plaza
Bldg. 728/Room 3208
4417 Lancaster Pike
Wilmington, DE 19805
Ph:(800) 448-9835

www.stormrooms.dupont.com
Tested: 11/02 – 8/04
4'x8'x7' & 4'x6'x7' composite shelter with Kevlar.

FamilySAFE Certified In-Home Shelters

Mr. Vince Mims
P.O. Box 822
Oologah, OK 74053
Ph. (918) 269 - 4680

www.familysafeshelters.com
Tested: 10/99
4' x 6' and 4'x 8' aboveground welded plate steel shelter

Ground Zero Shelters, Inc.

Richard Crow
4600 Independence
Perry, Oklahoma 73077
Ph. (405) 880-1351

Tested: 04/08
72"x48"x80" plate steel above ground shelter

Hausner's Precast

P.O. Box 32
Drumright, OK
Ph. (918) 352 – 3479

Tested: 11/01
3/16" steel 8' x 8' x 7' tall
aboveground shelters

Hercules Storm Shelter

CSD Fabrication, Inc.
Charles Logan

75 Commercial Loop Way
Rossville, TN 38066-3851
Ph. (901) 351-3510

Tested: 04/04
6'x7'x7' steel above ground shelter

Flatsafe Tornado

Cliff Vaughn
121 NE 26th Street
Oklahoma City, OK 73109
Ph. (405) 720-2116

Tested: 11/03
7'x3.5'x5' steel below ground shelter door

J G Saferooms

Tom Bennett
2210 Industrial Road
Supulpa, OK 74066
Ph. (918) 639-8102

Tested: 11-9-06
Steel above ground shelter

KeepSafe

KeepSafe Industries
Richard McCalley
PO Box 484
Fredericksburg, VA 22404
Ph. (800) 300 - 5868

Tested: 11/98
Aboveground steel panel shelter

Life Saver, LLC

Chuck Melton
10290 Farm Road 137
Brighton, MO 65617
Ph. (417) 742-2793

Tested: 3'x5'x6.83' steel above ground shelter

Menard Manufacturing Co., Inc.

Bill Menard
P.O. Box 21
Gillett, Arkansas 72055
Ph. (888) 764-3130

Tested: 05/08
72"x72"x78" plate steel above ground shelter

Missouri Storm Shelters

Olson
4983 Hwy 60
Rogersville, MO
Ph. (866) 511-1551

Tested: 02/06
4' x 6' Steel above ground shelter

Tested: 04/08
70"x45"x78" panelized steel above ground shelter

Modular Engineering

Mr. Sam Ramsey
180 Airpark Dr.
Wilsonville, AL 35186
Ph. (205) 921 - 9966

Tested: 06/01
3/16" plate steel above ground shelter,
FEMA 361 safe room wall and roof panel

Oldcastle Precast, Inc.

Bradley J. Smith
5900 E. Division
Lebanon, TN 37088-6403
Ph. (800) 966 - 2568

Tested: 12/01
4'x 4' and 5'x 5' I.D.
precast concrete shelters

Portland Cement Association

Lionel LeMay, P.E.
5420 Old Orchard Road
Skokie, IL 60077
Ph. (847) 966 - 6200

Tested: 07/99
Tested ICF shelters shown in FEMA 320
and analyzed structure under wind loads

Remagen SafeRooms

James E. Waller, P.E.
PO Box 796
Monteagle, TN 37356
Ph. (931) 692 - 3961

www.ramagensaferooms.com
Tested: 11/99
Aboveground steel panel shelter

SafeHaven Storm Shelters

Joshua King
2517 Station Master Road
Jones, Oklahoma 73049
Ph. (405) 517-1669

Tested: 08/08
96"x42"x57" plate steel below ground shelter

Safe-T-Shelter

Mr. Brent Mitchell
3275 Highway 55 West
Danville, AL 35619

Tested 1-21-03
4'x4'x7' steel above ground shelter

Ph. (800) 462 - 3648

Safe-T-Zone Shelter

Mr. Frank Pockrandt
5800 East Ten Mile
Warren, Michigan 48091
Ph. (586)755 – 0800

Tested 9-15-02

4'x8'x 32" high above ground steel shelter

Secure Environment

Dan Fox
2021 Crested Butte Drive
Guthrie, OK 73044
Ph. (405) 209-6450

Tested: 5/04

6'x6'x8' plywood and steel above ground shelter with steel studs

Steel Storm Shelters

Mr. David Hughes
33 Bolivar Highway
Jackson, TN 38301
Ph. (731) 427-8044

Tested: 8/05

5'x8'x6' tall steel above ground shelter

Strein Enterprises

Mr. Waldo Strein
4800 Inwood Road
Fort Worth, TX 76109
Ph. (817) 927 - 7082

Tested 6-6-02

3'x4'x6' steel above ground shelter

StormBox, Inc.

W.A. "Hoss" Willis
2425 Hwy 69 S.
Denison, TX 75021
Ph. (903) 465 - 7691

Tested: 08/99

4'x 4'x 4' welded plate steel shelter

Storm Chaser Shelters, Inc.

Trey Thompson
1200 Lawson Road
Fort Worth, TX 76131
Ph. (817) 847 - 9000

Tested: 09/98

Tested underground welded steel shelter

StormSafe Rooms

Brad Webb
13614 North Old Highway 169
Collinsville, OK 74021
Ph. (800) 324 - 9322

Tested: 05/01

Tested 4' x 6' x 6' and 4' x 8' x 6' welded steel shelters

Storm Shelter Systems

Jack McElwain
5922 Cane Ridge Road
Antioch, TN 37013
Ph. (615) 941 - 2319

Tested: 10/99

Tested partially underground steel panel shelter

Storm Track Shelters, Inc.

5000 Viewpoint
Amarillo, TX 79412
Ph. (806) 373-2640

Tested: 8/05

8'x8'x8' tall steel above ground shelter

Storm Shield USA

Mr. Bob Guthrie
106 Industrial Parkway
Tallasse, AL 36078
Ph. (866) 417 - 8676

Tested: 11/01
6' x 8' x 6.33' tall 1/4" steel (and smaller)
aboveground shelters

Storm Track Shelters, Inc.

5000 Viewpoint
Amarillo, TX 79124
Ph. (806) 373-2640

Tested: 8/05
8'x8'x8' tall above ground shelter

Tornado Shelter Enclosure, Inc.

David G. Abare
415 River Street
Haverhill, MA 01832
Ph. (877) 377 - 8676

Tested: 12/98
Tested aboveground steel frame,
polycarbonate panel shelter

Tornado Turtle

Starlight Enterprises
750 West Madison
Lebanon, MO 65536
Ph. (417) 532-5094

Tested: 9/04
5' diameter x 5' long half moon above ground shelter

Twister Pit, Inc.

Ted Hope
14002 E. 21st St.
Tulsa, OK 74134
Ph. (918) 266 - 6570
Ph. (800) 461 - 3005

Tested: 09/00
Tested several models of aboveground steel shelters

Twisterpruf

Jack Crain, Pat Guidry
6201 Highway 90 East
Broussard, LA 70518
Ph. (337) 364 - 4000

Tested: 08/00
Tested 8' x 12' x 10' steel panel shelter
and 3' x 7' door assembly

Twister Safe, LLC

Enos O. Davis
7661 Highway P
Neosho, MO 64850
Ph. (417) 624-7210

Tested: 8/04
5'x6'x6' modular steel above ground shelter

Twister Shelter & Vault

Bill Donald
P.O. Box 1151
Bridgeport, TX 76426
Ph. (866) 683-4125

Tested: 4/04
6'x4'x5.5' precast concrete above ground shelter with
shop fabricated steel door

Webster Dirtworks

13513 East 1200 Norton
Odon, Indiana 47562
Ph. (812) 444-9728

Tested: 5/23/2006
4'-6" x 6'-6" Plate Steel above ground shelter

40" x 32" plate steel door for below ground shelter

