



CSI: DIVISION: 13 00 00—SPECIAL CONSTRUCTION
Section: 13 26 00—Fabricated Rooms

Product Certification System:

The ICC-ES product-certification system includes evaluating reports of tests of standard manufactured product, prepared by accredited testing laboratory, and provided by the listee, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Product: EVEREST SAFEROOMS

Listee: LAKE MARTIN STORM SHELTERS LLC

Evaluation: The Everest Saferooms are residential tornado shelters consisting of ¼-inch thick (6.3 mm) ASTM A36 steel wall and roof panels, 2x2x¼-inch (51x51x6.4 mm) ASTM A36 steel angles for wall bracing, and C8X11½ ASTM A572 Gr. 50 steel channels for roof bracing and vents protection. Each room includes a manual operated steel door with three – 1-inch diameter (25.4 mm) horizontal carbon steel (ASTM A29, Grade 1018) latch pins. See Table 1 and Figure 1 for components and details. The Everest Saferooms were evaluated to the following standards:

- ICC 500-2023, ICC/NSSA Standard for the Design and Construction of Storm Shelters, International Code Council and National Storm Shelter Association.
- ASTM E330-14(2021), Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Difference, ASTM International.
- ASTM E1886-19, Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials, ASTM International.

Findings: The Everest Saferooms, at tabulated sizes indicated in Table 1, have met the test requirements detailed in Table 2 for an above-ground, residential tornado shelter when tested in accordance with ICC 500, as referenced in the applicable sections of the following code editions:

- 2024 *International Building Code*®
Applicable Sections: 423, 1031.2 Exception 4, 1604.5.1 Exception, and 1604.10.
- 2024 *International Residential Code*®
Applicable Sections: R307 and R319.1 Exception 2.

Identification:

1. The ICC-ES mark of conformity, electronic labeling, or the listing report number (ICC-ES ESL-1553) along with the name, registered trademark, or registered logo of the listee must be included in the product label.
2. In addition, the product label includes the manufacturer's address; the product name (Everest), manufacturer's lot number; Hazard use – Tornado; Missile Weight [15-pounds (6.8 kg)] and Speed; Design Wind Pressure, Design Tornado Pressure, or both; and the phrase "2023 edition of ICC 500".

- The report holder's contact information is the following:

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Installation: The product must be installed in accordance with the Lake Martin Storm Shelters LLC's published installation instructions and applicable codes. Connection of the Everest Saferoom to an existing concrete foundation or slab must meet the design and installation requirements in Section 307 of ICC 500.

Conditions of listing:

- The listing addresses only conformance with the standards and code sections noted above.
- Approval of the product's use is the sole responsibility of the local code official.
- The listing applies only to the materials tested and as submitted for review by ICC-ES.
- Complete plans verifying compliance with the listing must be submitted to the code official for each project at the time of permit application. The drawings must be prepared and sealed by a registered design professional, when required by the statutes of the jurisdiction in which the project is to be constructed.
- The Everest Saferooms are manufactured under a quality control program with inspections by ICC-ES.

TABLE 1—STORM SHELTER COMPONENTS FOR THE EVEREST SAFEROOM

EVEREST SAFEROOM MODEL	WALL		ROOF		VENT
	Panels	Bracing / Framing	Panels	Bracing / Framing	
4 X 5 Shelter	Two 48-in. wide x 76-in. tall x ¼-in. thick. Two 60-in. wide x 76-in. tall x ¼-in. thick. One of 60-in. wide panels has an opening. ¹	9 vertical 2x2x¼-in. steel angels.	One 48 x 60 x ¼ in.	Four horizontal 2x2x¼-in. steel angels at perimeter. Two C8X11½ steel channels covering the vents lines.	Two lines of 2-in. Dia. vents. Each line contains 7 vents
4 X 6 Shelter	Two 48-in. wide x 76-in. tall x ¼-in. thick. Two 72-in. wide x 76-in. tall x ¼-in. thick. One of 72-in. wide panels has an opening. ¹	9 vertical 2x2x¼-in. steel angels.	One 48 x 72 x ¼ in.	Four horizontal 2x2x¼-in. steel angels at perimeter. Two C8X11½ steel channels covering the vents lines.	Two lines of 2-in. Dia. vents. Each line contains 7 vents
4 X 8 Shelter	Two 48-in. wide x 76-in. tall x ¼-in. thick. Two 96-in. wide x 76-in. tall x ¼-in. thick. One of 96-in. wide panels has an opening. ¹	11 vertical 2x2x¼-in. steel angels.	One 48 x 96 x ¼ in.	Four horizontal 2x2x¼-in. steel angels at perimeter. Four C8X11½ steel channels covering the vents lines.	Four lines of 2-in. Dia. vents. The outer two contain 5 vents, each, and the inner two contain 7 vents, each.
5 X 8 Shelter	Two 60-in. wide x 76-in. tall x ¼-in. thick. Two 96-in. wide x 76-in. tall x ¼-in. thick. One of 96-in. wide panels has an opening. ¹	13 vertical 2x2x¼-in. steel angels.	One 60 x 96 x ¼ in.	Four horizontal 2x2x¼-in. steel angels at perimeter. Four C8X11½ steel channels covering the vents lines.	Four lines of 2-in. Dia. vents. The outer two contain 5 vents, each, and the inner two contain 7 vents, each.
6 X 8 Shelter	Two 72-in. wide x 76-in. tall x ¼-in. thick. Two 96-in. wide x 76-in. tall x ¼-in. thick. One of 96-in. wide panels has an opening. ¹	13 vertical 2x2x¼-in. steel angels.	One 72 x 96 x ¼ in.	Four horizontal 2x2x¼-in. steel angels at perimeter. Four C8X11½ steel channels covering the vents lines.	Four lines of 2-in. Dia. vents. The outer two contain 5 vents, each, and the inner two contain 7 vents, each.

For **SI Units**: 1 inch = 25.4 mm.

¹Opening size is 34-in. wide x 72¼-in. tall for the door. The door panel is 36-in. wide x 72½-in. tall and it fits in the inside of the storm shelter.

TABLE 2—ICC 500 REQUIREMENTS

ICC 500 SECTION(S)	TEST METHOD	REQUIREMENT	EVALUATED MODELS	RESULT
305.1, 305.2, Table 305.1.1, 306.1, and 803	Impact test requirements – ASTM E1886	All storm shelters components (wall and roof panels and doors) shall meet wind-borne debris and impact test requirements at the 250-mph design wind speed.	4 X 5 4 X 6 4 X 8 5 X 8 6 X 8	Pass
805	Static and cyclic pressure requirements – ASTM E330	All storm shelter components (wall and roof panels and doors) shall be static pressure tested to 1.2 times the design wind pressure.	4 X 5 4 X 6 4 X 8	Pass Design Wind Pressure Load (LRFD) = ±250 psf. Test Static Pressure Load = ±300 psf
805	Static and cyclic pressure requirements – ASTM E330	All storm shelter components (wall and roof panels and doors) shall be static pressure tested to 1.2 times the design wind pressure.	5 X 8	Pass Design Wind Pressure Load (LRFD) = ±160 psf. Test Static Pressure Load = ±192 psf
805	Static and cyclic pressure requirements – ASTM E330	All storm shelter components (wall and roof panels and doors) shall be static pressure tested to 1.2 times the design wind pressure.	6 X 8	Pass Design Wind Pressure Load (LRFD) = ±111 psf. Test Static Pressure Load = ±133 psf

Design for tornado loads and wind loads in accordance with Section 304 of ICC500 is outside the scope of this listing and must be determined by a registered design professional.



FIGURE 1—EVEREST SAFEROOM STORM SHELTER