



ICC 500 Storm Shelter Committee (IS-STM) Standard for the Design and Construction of Storm Shelters

Minutes – Meeting 11
Thursday, 06/01/2023
11-2 Eastern

Chair: Marc Levitan

Vice-chair: Scott Tezak

Secretariat: Kimberly Paarlberg; kpaarlberg@iccsafe; 888-422-7233, Ext. 4306

A. Welcome and Introduction

1) Call to Order: 11 Eastern

2) Attendance:

Staff:

Kimberly Paarlberg
Karl Aittaniemi
~~Quinton Owen~~

Committee members:

- ~~Brian Bishop~~
- ~~Gary Ehrlich~~
- Ben Harris
- Rick Hautekeete
- Andy Holstein
- John Hutton
- ~~Marc Levitan (Chair)~~
- ~~Andie Lorenz~~
- Corey Schultz
- ~~Pataya Scott~~
- David Stammen
- Stephen Szoke
- Scott Tezak (Vice-Chair)
- Anthony Warren
- ~~Borjen Yeh~~

Interested Parties:

- Lundy Clarke – Miami-Dade County RER
- Daniel Dain – NSSA
- Bill Elliott – Town of Addison Texas
- Trevor Errington - Clopay

- Bob Franke
- Samantha Krautwurst – AECOM
- Marilyn Latham – Allegion
- Jessica Miller – DLR Group
- Dave Mix – Insulgard Security Products
- Michael Nicasio – UL Solutions
- Shauna Schultz – Schultz Squared Architects LLC
- Steve Skalko – Precast Concrete Institute
- Mike Steele, Greenheck Fan Corp
- John Woestman, Kellen Company, rep. BHMA
- Shoab Yosoufzai – CMHA (Concrete Masonry & Hardscapes Association)

3) Approval of Agenda/Minutes – 6-1-2023/5-30-2023

B. 2023 ICC 500 Development

- 1) Work Groups –
 - Work Group 1 –no meetings
 - Work Group 3 –doodle poll out
 - Work Group 4 – no meetings
 - Work Group 5 – no meetings
 - Work Group 6- doodle poll needed
 - Work Group 7 – doodle poll in progress
 - Work Group 8 – June 5 meeting
 - Appendix Work Group – modifications submitted, no meetings
- 2) ICC 500 development information is on the [ICC 500 webpage](#)
- 3) Public meetings
 - Ongoing teleconference - Thursday's every two weeks – Feb 23, March 9, 23, April 6, 20, May 4, 18, June 1, 15 and 29, 2023 from 11-1 Eastern
 - Additional meetings on Tuesday, May 30 12-3 Eastern; Tuesday, June 6 1-4 Eastern
- 4) Presentation on tornado load and flood supplement posted on the [ICC 500 webpage](#)

C. . Committee Action on Public Input Agenda – Items on the Agenda –

The following proposals were decided during the call. See the report for official committee reasons and final actions. Any items remaining on the agenda will roll to the next agenda –

CHAPTER 9

IS-STM 09-01-23 AS 8-0-0

IS-STM 09-02-23 table

Since no additional proposals were ready for the committee review, the committee took the opportunity to provide additional discussions on the

proposals currently being reviewed by work groups. Following are some of the questions and views brought up during the discussion. The people on the call had a variety of viewpoints.

Committee discussed IS-STM 08-13-23 –

- What is understood as a ‘perforation’?
- Is that the interior skin of the product, or the witness paper used in the test?
- If a product is deformed, will it continue to function?
- Is the testing too variable to address this?
- Is a perforation any point where the test missile moves past the interior face of the tested assembly.
- From FEMA-P361: Perforation. Failure of a safe room component from wind-borne debris that occurs when a test missile impacts a safe room component and passes through it and into the protected space of the safe room by any amount.

Committee discussed IS-STM 02-02-23 –

- Are the critical support systems all required to remain operational during the storm, or to resist all storm impacts?
- Are ‘essential’ and ‘critical’ systems interchangeable or not?
- For example – in a tornado shelter does a toilet have to have the water supply and drainage protected? Or is the water supply in the pipes sufficient for supply and waste? What would be a sufficient amount of water needed for piped toilets?
- There is no need to store water or waste in the storm shelter because we are assuming system would operate unless hit by a tornado. This is opposite of the removal of the bladders that we did in the last cycle.
- Asking this is an expensive requirement that is not justified.

Sent back to work groups

CHAPTER 3

IS-STM 03-11-23 - modification

Coordination with dimensions throughout standard

Coordination with ‘wind loads’ and ‘tornado loads’ throughout standard

CHAPTER 6

IS-STM 06-03-23

CHAPTER 7

IS-STM 07-02-23

IS-STM 07-12-23

CHAPTER 2

IS-STM 02-02-23 –Work Group 7

IS-STM 02-05-23 –Work Group 7

CHAPTER 8

IS-STM 08-08-23

IS-STM 08-10-23 modification

IS-STM 08-09-23
IS-STM 08-13-23
IS-STM 08-14-23
IS-STM 08-16-23
IS-STM 08-17-23

D. Other Business –

E. Next Conference Call: ICC 500 Development Committees for 2023
Feb 23, March 9, 23, April 6, 20, May 4, 18, June 1, 15 and 29, 2023 from 11-1
Eastern
Additional meetings on Tuesday, May 30 12-3 Eastern; Tuesday, June 6 1-4
Eastern

F. Adjourn: 1:15 p.m.