



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

Minutes – Meeting 16  
Tuesday, 10/24/2023  
2-5 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: 2 Eastern

2) Attendance:

Staff:

Kimberly Paarlberg

~~Karl Aittaniemi~~

Quinton Owen

Committee members:

~~Brian Bishop~~

Gary Ehrlich

Ben Harris

~~Rick Hautkeete~~

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:

Michelle Barbee, Safe Sheds Inc

Dan Dain, Huckabee

Trevor Errington, Clopay

Dave Mix Insulgard Security Products

Glenn Overcash, AECOM on behalf of FEMA

Shauna Schultz, Schultz Squared Architects LLC

Matthew Schumann, UL Solutions

Mike Steele, Greenheck Fan Corp

Mike Vaughn, Concrete Products and NSSA

Bond Wagner, Farnsworth Group

John Woestman, Kellen Company, rep Builders Hardware Manufacturers Association (BHMA)

3) Administrative  
Approval of Agenda Oct. 24 /Minutes Oct. 11 – Approved

#### **B. 2023 ICC 500 Development**

- 1) Work Groups – (all times are Eastern)  
Work Group 1 – Sept. 29 1-3  
Work Group 3 – Sept. 18 1-2:30, Oct. 4 1:30-3:00  
Work Group 4 – none  
Work Group 5 – Sept. 28, 4-5  
Work Group 6- none  
Work Group 7 – Sept. 26, 3-5  
Work Group 8 – Sept. 18, 10-12, Sept. 25, 10-12, Oct. 12, 10-12  
Appendix Work Group –
- 2) ICC 500 development information is on the [ICC 500 webpage](#)
- 3) Public meetings  
Ongoing teleconference – Sept. 22, Oct. 3, Oct. 10 and Oct. 24, 2023  
Presentation on tornado load and flood supplement posted on the [ICC 500 webpage](#)

#### **C. Committee Action –**

**Kim will provide all ballots comments submitted before the Nov. 20 meeting.**

**Errata to 03-01-21-** The bracket in front of  $L_{rH}$  is in the wrong location in equations 3-7, 3-9, 3-23 and 3-25. It should not have moved. Correct revisions are indicated below.

#### **302.2 Strength design. ...**

For *hurricane shelters*:

$$1.2D + 1.6L + 0.5(L_{rH} \text{ or } \underline{1.0}R_H) \quad (\text{Equation 3-7})$$

$$1.2D + 1.0W_H + L + 0.5(L_{rH} \text{ or } \underline{1.0}R_H) \quad (\text{Equation 3-9})$$

#### **302.3 Allowable stress design....**

For Hurricane Shelters:

$$D + 0.75L + 0.75(L_{rH} \text{ or } \underline{0.7}R_H) \quad (\text{Equation 3-23})$$

$$D + 0.75L + 0.75(0.6W_H) + 0.75(L_{rH} \text{ or } \underline{0.7}R_H) \quad (\text{Equation 3-25})$$

#### **I-code proposals from Gary Ehrlich**

IBC – definitions and 423.3.2 – approved as modified – 10-0-0

IRC – definitions - approved as modified – 10-0-0

IEBC - definitions - approved as modified – 10-0-0

IPMC – definitions and 310.3 (Kim to get additional information on cost impact) – 10-0-0

#### **NSSA discussion on requirements for persons performing peer reviews**

Slideshow for community prefabricated storm shelters

ICC 500 Section 106.2 – need exception for prefabricated shelters. Concern is need for peer review for community shelters for <50 occupants.

RB143-22 AS revised IRC Section R323, which includes an exception for listed and labeled.

**Planning for commentary –**

Kim to give 2023 legislative draft with 2020 commentary text for each work group.

Each chair will look at changes and give time estimates.

Completing by Dec. 2023 will give us a good chance of getting commentary out soon.

**Planning for next edition –**

Kim to work with Karl for work plan for next edition, assuming starting process in January of 2024.

Coordination with ASCE 24 and flood elevation provisions.

**D. Other Business –**

Next meeting Nov. 20 from 1:30 to 3:00 Eastern

NSSA Conference – Nov. 13-15, 2023

<https://www.nssa.cc/#/>

**E. Next Conference Call:** ICC 500 Development Committees for 2023

Sept. 22, Oct. 3, Oct. 10 and Oct. 24, 2023

**F. Adjourn:** 2:25 p.m.