

The background features a green-to-blue gradient with technical diagrams. A large circular scale with numerical markings from 140 to 260 is prominent on the left. Other elements include concentric circles, dashed lines, and arrows, suggesting a technical or engineering context.

# CURRENT & EVOLVING ASTM SPECIFICATION FOR ANTI-TIP DEVICES

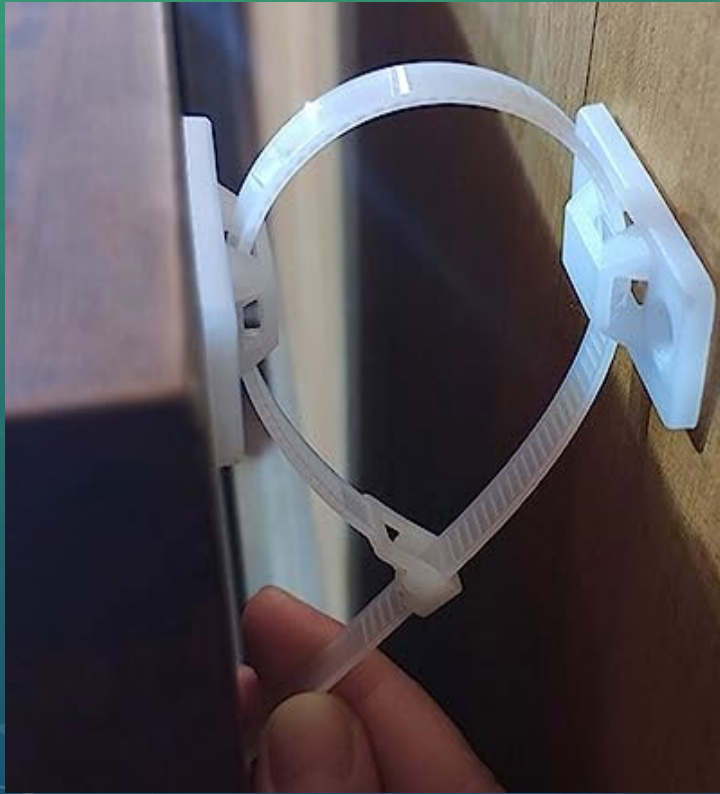
SCOTT BUEHRER  
B. WALTER & CO.  
WABASH, INDIANA

AUGUST 2023

# PRESENTATION ROADMAP

- Types of Anti-Tip Devices
  - ASTM Standards
  - ASTM F3096 Task Groups

# TYPES OF ANTI-TIP DEVICES





# PRESENTATION ROADMAP

Types of Anti-Tip Devices

- ASTM Standards
- ASTM F3096 Task Groups

# ASTM F2057

- Reduce injuries and deaths of children from hazards associated with tipover
- Applies to free-standing clothing storage units based on their height, mass, and enclosed storage volume
- Not applicable to certain furniture (bookcases, dining room, office, etc.)
- Establishes tipover test performance requirements for the clothing storage unit
- Requires use of an anti-tip device that meets the requirements of ASTM F3096
- Requires the use of various Tipover Warning Labels

# ASTM F3096

- - Defines test method and requirements for tipover restraints as required by ASTM F2057
- - Assesses strength of tipover restraint only
- - Does not address the in situ performance of the tipover restraint



# ASTM F3096-23

## Standard Performance Specification for Tipover Restraint(s) Used with Clothing Storage Unit(s)

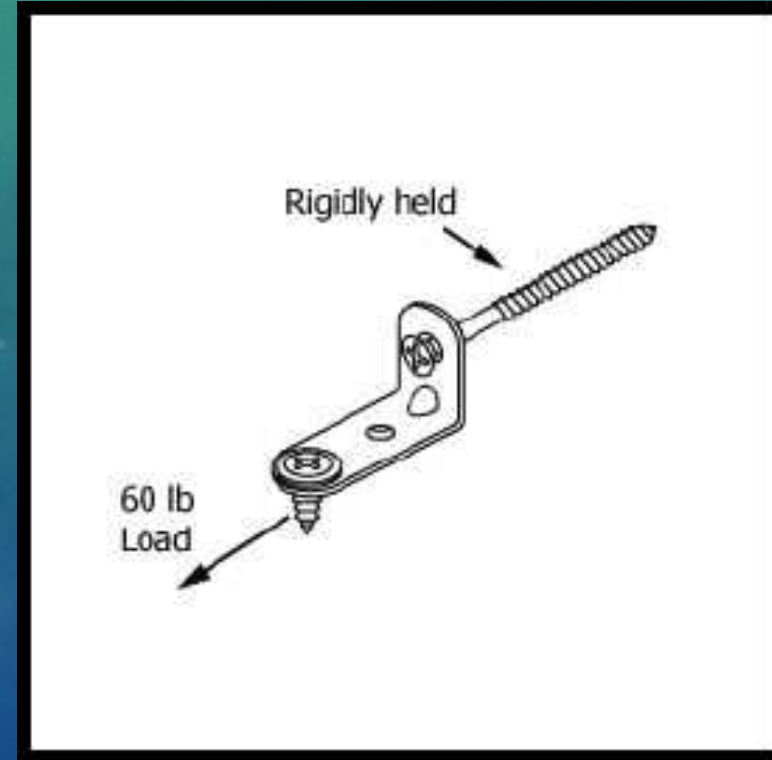
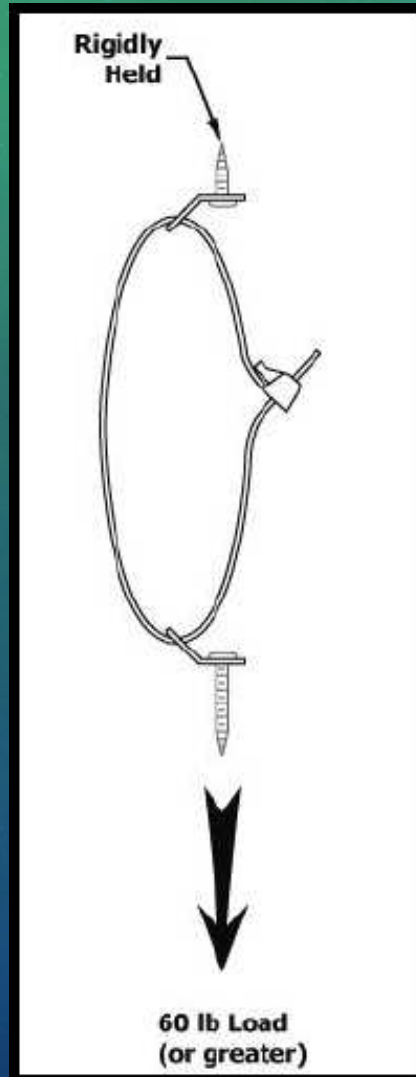
- Scope
- Terminology
- Test Method
- Instructional Literature
- Labeling Requirements

# ASTM F3096-23 TEST METHOD

- Assemble Tipover Restraint
- Secure one end of the tipover restraint by gripping or attaching to a fixed structure (example wooden block)
- Attach loading device on opposite end of tipover restraint
- Gradually, over a period of 2 to 15 seconds, apply the static load of 60 lbs and maintain for an additional 30 seconds
- If tipover restraint becomes unattached to fixed end reattach and repeat



# F3096-23 TEST METHOD EXAMPLES



# F3096-23 VS. F3096-14

- Static Load increased from 50 lbs to 60 lbs
  - Reflects above the 95<sup>th</sup> percentile weight of a child up to 72 months

# WHERE TO TEST TIP RESTRAINTS

- Bureau Veritas
- Intertek
- North Carolina State University Test Lab
- SGS
- UL Solutions



# PRESENTATION ROADMAP

Types of Anti-Tip Devices

ASTM Standards

➤ ASTM F3096 Task Groups

# ASTM F3096 TASK GROUP MEMBERS

- Product & Design Engineers
- Quality Department
- Regulatory Affairs
- Test Engineers
- Consumer Advocates
- Government Regulators

# ASTM F3096 TASK GROUPS

- Introduction & Scope
- Material Interaction
- Static & Dynamic Testing
- Instructions



# INTRODUCTION & SCOPE TASK GROUP

## GROUP LEADER

Mike Lazorchick (Samson Marketing)

## AREAS OF INTEREST

Excluding standard when product misused or used in a careless manner

Expanding scope to include “instructions and labeling requirements”

Expand scope to include anti-tip devices made available to consumer

NOTE: Revisions dependent on work output of the other task groups

# MATERIAL INTERACTION TASK GROUP

## GROUP LEADER

Kimberly Amato (Parents Against Tip-Overs and Meghan's Hope)

## AREAS OF INTEREST

- Effect of Aging on component materials (ex. plastic, metal, adhesives)
- Environmental factors such as UV, corrosion, temperature, and humidity
- Performance of anti-tip device after aging
- Determining minimum requirements to weed out inferior products

# STATIC & DYNAMIC TASK GROUP

## GROUP LEADERS

Rob Giachetti (Fusion Engineering) & Christoffer Bratt (Ikea)

## AREAS OF INTEREST

Testing for ATD connection to furniture (standard reference material)

Overload test (to capture test to failure)

Cyclic testing (loading & offloading of weight)

Impact testing (simulate child jumping up & down)

Specifying what constitutes pass/fail



# INSTRUCTIONS TASK GROUP

## GROUP LEADER

Don Mays (engineer & consumer)

## AREAS OF INTEREST

Instructions for connecting Anti-Tip Device to the wall

Recommendations for attaching to wallboard (no wall stud option)

Include consulting the furniture manufacturer's instructions on where to connect the Anti-Tip Device to the furniture

# HOW TO JOIN ASTM F3096 TASK GROUP

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