

ANSI/ASSP Z359.7-2019

Qualification and Verification Testing
of Fall Protection Products

Part of the Fall Protection Code



AMERICAN SOCIETY OF
SAFETY PROFESSIONALS



PREVIEW ONLY

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ANSI/ASSP Z359.7 – 2019

American National Standard

**Qualification & Verification Testing
of Fall Protection Products**

Secretariat

American Society of Safety Professionals
520 N. Northwest Highway
Park Ridge, Illinois 60068

Approved April 2, 2019

Effective May 1, 2020

American National Standards Institute

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Published April 2019 by

American Society of Safety Professionals
520 N. Northwest Highway
Park Ridge, Illinois 60068
(847) 699-2929 • www.assp.org

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Printed in the United States of America

Foreword

(This Foreword is not a part of American National Standard Z359.7-2019.)

History

This standard was first published in 2011 in an effort to standardize testing of fall protection products labeled according to the Z359 Fall Protection Code. Prior to 2011, the testing requirements for each product and the related test equipment were included within individual product standards. This standard made industry-wide changes to standardize the laboratory equipment, specimens tested, recording and accreditation of the laboratory. The greatest benefit that occurred in 2011 was requiring all testing laboratories, regardless of who owned and operated them, be accredited to ISO 17025. This requirement increased the quality and consistency of testing being conducted and therefore created a process to demonstrate why consumers can have greater confidence in products labeled to Z359 Fall Protection Code standards.

Prior to 2011, testing of Z359 products was not consistent for each product. Each product standard included the test equipment, sampling and test protocols. Significant differences could be found with the standards due to the age differences between the standards. Administratively, this created issues with updating testing requirements, since each standard had to be updated individually, often times with years in between updates. Laboratories were challenged since different testing, recording and sampling requirements existed for some products and not others.

This standard has worked to alleviate many of these issues by having common requirements for all Z359 products. The standard required each laboratory to be accredited to ISO 17025, *General Requirements for the Competence of Testing and Calibration Laboratories*. This standard includes many requirements, but the highlights are:

- calibration of testing equipment (measuring devices, weights used, data recording equipment)
- control of materials
- qualifications of staff
- communication procedures
- adherence to test protocols
- accuracy of testing data
- internal and external quality control audits
- number of specimens tested

This standard covers and is referenced in all Z359 product standards. The goal is that all Z359 products capable of being tested through an ISO accredited laboratory achieve consistent and accurate testing results. This standard works in harmony with the individual Z359 product standards and includes common testing requirements and equipment.

Need for a Standard

The Z359 committee desired to provide a methodology where product manufacturers could bring existing and new innovative products to market within a reasonable amount of time while still maintaining a high level of consumer confidence in the testing of the products. This standard allows manufacturers to test all of their own products and works to minimize conflicts and inconsistencies by requiring all laboratories be accredited to ISO 17025.

During the development of this standard and determining the need for it, there was significant discussion regarding product certification and the use of third-party independent laboratories and third-party product certification bodies. Users of this standard must recognize that this

standard is not a product certification standard. There is a difference between testing of product and certifying of product. Testing of the product is only one part of the certification process. A product has several requirements that are not verified by testing, such as marking of product, labeling and instruction requirements. There is a general misconception that once a product passes the tests, it is certified, and this is not true. Many requirements are not verified through testing and the manufacturer of the product still has a responsibility to verify that all parts of the standard have been met. Currently (and historically), the manufacturer has the responsibility to ensure that a product meets all the requirements of the standard not just the physical tests. This standard does not prohibit a manufacturer from using independent organizations for testing and/or certification of product. This standard allows a manufacturer, through an ISO accredited laboratory, to test fall protection products according to the standard. If the manufacturer makes a self-declaration that the product conforms to the requirements of a Z359 standard, the manufacturer must provide documentation (Declaration of Conformity) to the purchaser that they have tested the product accordingly and also that the product meets all of the related requirements of standard, including labeling and user information requirements. If the product is certified by a third-party certification organization, then the third-party certification organization is responsible for ensuring that the product tested meets all of the design and performance requirements, as well as the labeling and user information, meet the requirements as given in the standard. Third-party certification of a product, as well as ISO 17025 accreditation, includes ongoing surveillance of the manufacturer.

Standard Perspective

This standard is written for manufacturers and laboratories of fall protection products. Although other organizations may benefit from the content within this standard, it is written from an equipment manufacturer and laboratory perspective.

Normative Requirements

This standard uses the single-column format. The normative requirements appear aligned to the left margin. To meet the requirements of this standard, machinery, equipment and process suppliers and users must conform to these normative requirements. These requirements typically use the verb “shall.”

NOTE: The informative or explanatory notes in this standard appear indented, in italics, in a reduced font size, which is an effort to provide a visual signal to the reader that this is informative note, not normative text, and is not to be considered part of the requirements of this standard; this text is advisory in nature only. The suppliers and users are not required to conform to the informative note. The informative note is presented in this manner in an attempt to enhance readability and to provide explanation or guidance to the sections they follow.

Figures

Figures provided in the standard are illustrated to show basic concepts of testing, types of products, examples of labels or other information from the standard. These figures are not to scale, nor do they represent absolute systems and requirements. They are for educational and informational purposes to explain content within a standard.

Suggestions for Improvements

Suggestions for improvements to this standard are welcome. They should be sent to: American Society of Safety Professionals (ASSP), 520 N. Northwest Highway, Park Ridge, IL 60068
Attention: Z359 Secretariat.

Revisions

The Z359 Committee welcomes proposals for revisions to this standard. Revisions are made to the standard periodically (usually five years from the date of the standard) to incorporate changes that appear necessary or desirable, as demonstrated by experience gained from the application of the standard. Proposals should be as specific as possible, citing the relevant section number(s), the proposed wording and the reason for the proposal. Pertinent documentation would enable the Z359 Committee to process the changes in a timely manner.

Interpretations

Upon a request in writing to the secretariat, the Z359 Committee will render an interpretation of any requirement of the standard. The request for interpretation should be clear, citing the relevant section number(s) and phrased as a request for a clarification of a specific requirement. Oral interpretations are not provided.

No one but the Z359 Committee (through the Z359 Secretariat) is authorized to provide any interpretation of this standard.

Approval

Neither the Z359 Committee nor the American National Standards Institute (ANSI) approves, certifies, rates or endorses any item, construction, proprietary device or activity.

Appendices

Appendices are included in most standards to provide the user with additional information related to the subject of the standard. Appendices are not part of the approved standard.

Committee Meetings

Persons wishing to attend a meeting or join the committee should contact the secretariat for information.

Standard Approval

This standard was processed and approved for submittal to ANSI by the Z359 Secretariat. Approval of the standard does not necessarily imply (nor is it required) that all committee members voted for its approval. At the time this standard was approved, the Z359 Committee had the following members:

Thomas Kramer, P.E., CSP, Chair
Dan Henn, Vice Chair
Ovidiu Munteanu, Secretary
Timothy Fisher, CSP, CHMM, CPEA, CAE, ARM, STS, Assistant Secretary
Jennie Dalesandro, Administrative Technical Support

Organization Represented	Name of Representative
3M	Raymond Mann
American Society of Safety Professionals	Mike Boraas
Bashlin Industries, Inc.	Jubal Hamernik, Ph.D., P.E.
Bayer AG	John Frost, CSP
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High Engineering Corporation	J. Nigel Ellis, Ph.D., P.E., CSP, CPE
Honeywell	John Whitty, P.E.
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	Bradley Rohlf
	Steven McPherson
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	Paul Clarke, CEng, MIMechE
	Andrew Diamond, MInstP, BSc (Hons)
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Trinity Industries, Inc.

Tritech Fall Protection Systems, Inc.

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U.S. Department of Interior - BSEE

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UAW

John Corriveau

Mark Benes

Thomas Kramer, P.E., CSP

Rupert Noton, CEng, MIStructE

David Ivey

Chris Holland

Andrew Emmons, P.E.

Al Jording, P.E.

Rob Willis

Tim Bissett

Rick Toll

Stephan Gelinas

John Jones

Justin Miller

Keith Smith

Jeremiah Wangsgard

Keith Luscinski

Jeff Bowles

Loui McCurley

Warren Faber

Andre Pelland

Dan Henn

W. Joe Shaw

Arnie Galpin, P.E.

Kynan Wynne

Tyson Munford, P.E.

Stephen Sanders

Mark Winchester

George Jerome

Edward Grosse

Gregory Byers

Douglas Mercier

Michael Masterson, Jr.

Andrew Broadway

Curtiss Burdette

Samuel Terry

Art Schneider

Charley Rankin, M.S.

Cedric Smith

Michael Wright, P.E., CPE, CSP

Mark Williams

Tyler Griffith

Tim Accursi

Juan Rangel

Scott Richert, CSP, ARM, ALCM

Robin Wagstaff

Craig Siciliani

Chris Moemke, EIT

Robert Baker

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Beverly Stutts
Andrew White
Kelly Streeter, P.E.
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Michael Cameron
Cody Rappoport
William Schnyer
John Woodard, CIH, CSP
Daniel Gach, AIA, NCARB
Jason Kamman, CSP, CHST
Adam Rubin

Subgroup Z359.7 had the following members:

Kevin Denis, Chair
Paul Clarke, CEng, MIMechE
Robert Golz
Chris Holland
David Lough
Raymond Mann
Bradley McGill
David Pate, CUSA
James Rullo
Stephen Sanders
W. Joe Shaw
Daniel Shipp
Keith Smith
Beverly Stutts

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AMERICAN NATIONAL STANDARD Z359.7 QUALIFICATION & VERIFICATION TESTING OF FALL PROTECTION PRODUCTS

1. Scope, Purpose, Application and Interpretations

1.1 Scope

This standard specifies requirements for equipment, facilities, specimens to be sampled and documentation when testing ANSI/ASSP Z359 Fall Protection Code products. This standard commonly addresses the requirements for qualification and verification testing for all ANSI/ASSP Z359 product standards, as required by ANSI/ASSP Z359.1, *The Fall Protection Code*.

1.2 Purpose and Application

1.2.1 The purpose of this standard is to provide a process for fall protection products to be qualified, verified and documented as conforming to the testing requirements of ANSI/ASSP Z359 product standards. Specific provisions are provided for:

- qualification testing, data collection and maintenance
- verification testing
- substantiation of processes to maintain manufacturing quality
- declaration of conformity
- roles and responsibilities of manufacturers, testing facilities and certification bodies that participate in the process

1.2.2 Before any product shall bear an ANSI/ASSP Z359 number or be represented in any way as being in compliance with any ANSI/ASSP Z359 standard, the requirements of this standard as well as the respective product standard shall be met.

1.3 Interpretations

Requests for interpretations of this standard shall be in writing and addressed to the secretariat of this standard.

2. Definitions

Accreditation

Procedure by which an authoritative body gives formal recognition that a body or person is competent to carry out specific tasks. The body or person deemed competent through this process is accredited.

Certificate of Compliance

A document produced by a third-party certification organization that states a product conforms to the requirements of an applicable product standard.

Certification

The act of attesting in writing that the criteria established by these standards or some other designated standard have been met.