# ANSI/ASSP Z359.2-2017

Minimum Requirements for a Comprehensive Managed Fall Protection Program

Part of the Fall Protection Code

The American Society of Safety Engineers (ASSE) is now the American Society of Safety Professionals (ASSP). ASSP continues to be the Secretariat for the committee producing this standard and continues to hold the copyright to this standard. There is no change to the content and requirements in the standard. The only change is on the cover indicating the organizational name change of the standards developing organization from ASSE to ASSP.







		<b>ANSI</b> ®
ANSI/ASSE	7359 2	- 2017

## **American National Standard**

Minimum Requirements for a Comprehensive Managed Fall Protection Program

#### Secretariat

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

Approved January 9, 2017

American National Standards Institute, Inc.

This is a preview. Click here to purchase the full publication.

## American National Standard

Approval of an American National Standard requires verification by ANSI that the requirements for due process, consensus, and other criteria for approval have been met by the standards developer. Consensus is established when, in the judgment of the ANSI Board of Standards Review, substantial agreement has been reached by directly and materially affected interests. Substantial agreement means much more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and that a concerted effort be made toward their resolution. The use of American National Standards is completely voluntary; their existence does not in any respect preclude anyone, whether he/she has approved the standards or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standards. The American National Standards Institute does not develop standards and will in no circumstance give an interpretation of any American National Standard. Moreover, no person shall have the right or authority to issue an interpretation of an American National Standard in the name of the American National Standards Institute. Requests for interpretation should be addressed to the secretariat or sponsor whose name appears on the title page of this standard.

Caution Notice: This American National Standard may be revised or withdrawn at any time. The procedures of the American National Standards Institute require that action be taken periodically to reaffirm, revise, or withdraw this standard. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute.

Published March, 2017 by

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

Copyright ©2017 by American Society of Safety Engineers All Rights Reserved.

No part of this publication may be reproduced in any form, in an electronic retrieval system or otherwise, without the prior written permission of the publisher.

Printed in the United States of America

### Foreword (This Foreword is not a part of American National Standard Z359.2-2017.)

This standard, national in scope, was developed by an Accredited Standards Committee functioning under the procedures of the American National Standards Institute, with the American Society of Safety Engineers (ASSE) as secretariat.

It is intended that every employer whose operations fall within the scope and purpose of the standard will adopt the guidelines and requirements detailed in this standard.

The need for this standard grew out of the continuing development of a series of fall protection-related standards. The focus is to tie the elements of those standards together and provide the tools with which employers may develop the programs that incorporate those elements. This standard also brings together the administrative requirements of those fall protection standards. It should be noted, as in all Z359-series standards, that this standard applies to all occupational activities except sports activities such as mountaineering.

Neither the standard's committee, nor the secretariat, states that this standard is perfect or in its ultimate form. It is recognized that new developments are to be expected, and that revisions of the standard will be necessary as the state-of-the-art progresses and further experience is gained. It is felt, however, that uniform guidelines for fall protection programs are very much needed and that the standard in its present form provides for the minimum criteria necessary to develop and implement a comprehensive managed fall protection program.

The Z359 Committee acknowledges the critical role of design in influencing the use of proper fall protection equipment. Designs which eliminate fall hazards through the proper application of the hierarchy of safety controls are the preferred method for fall protection. Design deficiencies often increase the risk for employees who may be exposed to fall hazards: examples are (1) lack of rail systems to prevent falls from machines, equipment and structures; (2) failure to provide engineered anchorages where use of personal fall protection equipment is anticipated; (3) no provision for safe access to elevated work areas; (4) installation of machines or equipment at heights, rather than floor/ground level to preclude access to elevated areas; (5) failure to plan for the use of restraint or work positioning devices. To that end, this standard also provides guidance for design considerations for new buildings and facilities.

Basic fall safety principles have been incorporated into this standard, including hazard survey, hazard elimination and control, and education and training. The primary intent is to ensure a proactive approach to fall protection. However, the reactive process of accident investigation is also addressed to ensure that adequate attention is given to causation of falls.

The Z359 Committee solicits public input that may suggest the need for revisions to this standard. Such input should be sent to the Secretariat, ASC Z359, American Society of Safety Engineers, 520 N. Northwest Highway, Park Ridge, Illinois 60068.

This standard was developed and approved for submittal to ANSI by the American National Standards Committee on Standards for Fall Protection, Z359. Committee approval of the standard does not necessarily imply that all committee members voted for its approval. At the time it approved this standard, the Z359 Committee had the following members:

Randall Wingfield, Chair Thomas Kramer, P.E., CSP, Vice Chair Timothy R. Fisher, CSP, CHMM, ARM, CPEA, Secretary Ovidiu Munteanu, Assistant Secretary Jennie Dalesandro, Administrative Technical Support

#### **Organization Represented**

#### Name of Representative

American Airlines

American Society of Safety Engineers

Bashlin Industries, Inc. Boeing Company

Buckingham Mfg. Co., Inc.

Chevron

3M

Clear Channel Outdoor

ClimbTech LLC

Dynamic Industries, Inc.

Elk River, Inc.

Ellis Fall Safety Solutions, LLC

**ExxonMobil Corporation** 

FallTech

Flexible Lifeline Systems

General Motors Gorbel Inc.

Gravitec Systems, Inc.

Hartford Steam Boiler Inspection & Insurance Co.

High Engineering Corp.

Honeywell Safety Products

Indianapolis Power and Light

INSPEC International Ltd.

Raymond Mann Judd Perner Len Bradley

Jubal D. Hamernik, Ph.D., P.E. John Stephen Frost, CSP

Bradley S. McGill Chuck Orebaugh Joey R. Junio, P.E. James Rullo DeForest Canfield

Craig Berkenmeier, ARM Joshua Ockmond, CSP

Jim Poage Dan Rossi Karl Guthrie Eric Patrick Gary LoPiccolo

Brandon Muffoletto, CSP

Delisa Calhoun Erik Arendall

J. Nigel Ellis, Ph.D., P.E., CSP, CPE

John T. Whitty, P.E. Freddie Johnson Dustin Hawkins Warren Faber Hugh Armstrong Michael Bailey, P.E. Ken Mahnick Allen Baughman Kevin Duhamel Randall Wingfield

Dave Lough

Jerry Kucharski, CFPS

**Timothy Healey** 

William R. Parsons, P.Eng. Greg Small, P.Eng., M.Eng.

Bradley Rohlf Chris Huber David Baldwin David H. Pate, CUSA

Paul Clarke, CEng, MIMechE

Andrew Diamond, MInstP, BSc (Hons)

ISEA – International Safety Equipment Association Dan Shipp Eric Miller Lawrence Livermore National Security Louis Renner, CSP Steve McConnell, CSP, CIH Cal Sparks Liberty Mutual Group Matthew Zaffini Lighthouse Safety LLC John Corriveau Mark Benes LJB Inc. Thomas Kramer, P.E., CSP Rupert Noton, CEng, MIStructE Andrew Emmons, P.E. Martin/Martin Consulting Engineers Matthew Schneider, P.E. Adam Chapin Monsanto MSA Rob Willis Tim Bissett Murdock Webbing Co. Inc. Robert Golz Greg Pilgrim National Association of Tower Erectors Gordon Lyman Don Doty Pamela R. Huck, Inc. Pamela Huck, CSP PenSafe Keith Smith Petzl America Jeremiah Wangsgard Pigeon Mountain Industries, Inc. **Jeff Bowles** Kim Hunter Reliance Industries, LLC Dan Henn W. Joe Shaw Rigid Lifelines Arnie Galpin, P.E. John Kemp Rooftop Anchor, Inc. Kynan Wynne Tyson Munford, P.E. Safety Connection, Inc. Clint Honeycutt, Sr. Janice Honeycutt Safety Equipment Institute Steve Sanders Safety Through Engineering, Inc. (dba STE, Inc.) Michael C. Wright, P.E., CPE, CSP Mark Williams Shell Exploration & Production Co. **Edward Grosse Gregory Byers** Skylotec North America, LP Mark Conover Michael Masterson, Jr. Southern Weaving Co. **Andrew Broadway Curtiss Burdette** Sparkling Clean Window Company & Surface Sam Terry Solutions Art Schneider SPRAT - Society of Professional Rope Loui McCurley Access Technicians Cedric Smith

Sturges Manufacturing Co., Inc.

SureWerx/PeakWorks

Tractel Inc.

This is a preview. Click here to purchase the full publication.

Richard Griffith Tyler Griffith

Tim Accursi Ken Lemke

Doug Knapp Catalin Anesia **Transport Workers Union** 

Travelers

Tritech Fall Protection Systems, Inc.

U.S. Air Force Safety Center

U.S. Bureau of Reclamation

U.S. Department of Interior – BSEE

U.S. Department of the Navy

**UL LLC** 

United Auto Workers Vertical Access LLC

Walt Disney Parks & Resorts

Western Area Power Administration

WJE

James Mark

Scott H. Richert, CSP, ARM, ALCM

Chris Moemke, EIT

John Seto, P.E

Mark S. Kantorowicz

Robert Baker

Shawn Smith, CSP

Shaun Reed

John M. Cushing, Jr.

Simon Baughman

Basil Tominna, P.E.

Shawn Smith, MEng, CSP

**Beverly Wooten Stutts** 

Matthew S. Uptmor, OHST

Kelly Streeter, P.E.

Keith Luscinski

Ken Young, P.E.

Ian Bevan

Patrick T. Nies

Will Schnyer

Daniel Gach, AIA, NCARB

Jason Kamman, CSP, CHST

### Subgroup Z359.2 had the following members:

Randall Wingfield (Chair)

David Baldwin

Kevin Denis

J. Nigel Ellis, Ph.D., P.E., CSP, CPE

Arnie Galpin, P.E.

Kevin Goodwin, CSP

Richard Griffith

Timothy Healey

Clint Honeycutt, Sr.

Nick Hutchinson

Joey Junio, P.E.

Thomas Kramer, P.E., CSP

Ken Mahnick

Loui McCurley

Chuck Orebaugh

David Pasco

David Pate, CUSA

Scott Richert, CSP, ARM, ALCM

Daniel Shipp

Greg Small, P.Eng., M.Eng.

Shawn Smith, MEng, MA, CSP

Cal Sparks

Kelly Streeter, P.E.

Basil Tominna, P.E.

Matthew Uptmor, OHST

Mark Winchester