

ANSI Z535.2-2011 (R2017) Reaffirmation of ANSI Z535.2-2011

American National Standard for Environmental and Facility Safety Signs

Secretariat:

National Electrical Manufacturers Association

Approved October 20, 2017

American National Standards Institute, Inc.

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CONTENTS

Forewo	ord			.vii	
1	Introdu	Introduction1			
2	Scope and purpose				
	2.1	Scope.		1	
	2.2	Purpos	e	1	
		2.2.1	Existing American National Standards	1	
3	Applica	tion and	exceptions	1	
	3.1	Applica	tion	1	
	3.2	Excepti	ons	1	
4	Definiti	Definitions			
5	Use of signal words				
	5.1	Hazard	classification	4	
	5.2	Signal word selection4			
	5.3	Multiple hazard signs4		4	
		5.3.1	One sign	4	
		5.3.2	Signal word for multiple hazard signs	4	
6	Sign fo	rmat		4	
	6.1	Panels		4	
	6.2	Panel a	arrangement	4	
		6.2.1	Panel format	4	
		6.2.2	Panel placement	4	
	6.3	Safety	alert symbol	5	
	6.4	Word m	nessage	5	
		6.4.1	Multiple messages	5	
7	Safety sign colors5				
	7.1	Standa	rd colors	5	
	7.2	Signal word panel colors			
		7.2.1	DANGER	5	
		7.2.2	WARNING	5	
		7.2.3	CAUTION	5	
		7.2.4	NOTICE	5	
		7.2.5	SAFETY INSTRUCTIONS	5	
		7.2.6	Safety equipment location signs	5	
		7.2.7	Fire equipment location signs	5	
		7.2.8	Safety alert symbol	5	

	7.3	Messa	ge panel colors	6	
		7.3.1	Hazard alerting signs, safety notice signs, and safety instruction signs	6	
		7.3.2	Safety equipment location signs	6	
		7.3.3	Fire safety equipment location signs	6	
	7.4	Symbo	I panel colors	6	
		7.4.1	Hazard alerting signs, safety notice signs, and safety instruction signs	6	
		7.4.2	Safety equipment location signs	6	
		7.4.3	Fire equipment location signs	6	
8	Letter	style and	l size	6	
	8.1	Letter	style	6	
		8.1.1	Signal words	6	
		8.1.2	Message panel lettering	6	
	8.2	Letter :	size for hazard alerting signs	6	
		8.2.1	Lettering	6	
		8.2.2	Determination of safe viewing distance	6	
		8.2.3	Signal word letter height	7	
	8.3		size for safety notice, safety instruction, safety equipment location, and fire nent location signs	7	
		8.3.1	Lettering	7	
		8.3.2	Signal word letter height for safety notice and safety instruction signs	7	
9	Safety	symbols		7	
	9.1	Conve	yed message	7	
	9.2	Use wi	th and without corresponding word messages	7	
10	Sign n	Sign materials, expected life, and maintenance			
	10.1	Sign m	aterials	7	
	10.2	Expect	ed life	7	
	10.3	Mainte	nance	7	
	10.4	Replac	ement	7	
11	Sign p	lacemen	t	8	
	11.1	Hazaro	l alerting signs	8	
	11.2	Safety signs—placement requirements8			
	11.3	Safety	signs—placement prohibitions	8	
	11.4	Enviro	nmental/facility safety signs	8	
12	Illumin	ination8			
13	Norma	Normative references			
	13.1	General8			
	13.2	American National Standards8			

Tables

Table B1 Examples of Word Message Letter Heights and Minimum Safe Viewing Distances24

Figures

Figure 1 The Safety Alert Symbol	2
Figure 2 Examples of Use of Color	10
Figure 3 Three Panel Sign in Vertical Format	11
Figure 4 Two Panel Sign in Vertical Format	11
Figure 5 Three Panel Sign in Horizontal Format	11
Figure 6 Two Panel Sign in Horizontal Format	11
Figure 7 Two Panel Sign in Shortened Signal Word Panel Format	11
Figure 8 Two Panel Sign in Side-by-Side Format	12
Figure 10 Three Panel Sign in Horizontal Format with Message Panel and Symbol Panel Separated by Line	12
Figure 11 Three Panel Sign in Horizontal Format with Message Panel and Symbol Panel Separated by White Space	12
Figure 13 Safety Sign Incorporating a Safety Instruction Panel	13
Figure 14 Additional Safety Sign Formats that may be Used for Safety Equipment and Fire Equipment Location Signs	13
Figure B1 Examples of Correct Signal Word and Safety Alert Symbol Placement	17
Figure B2 Examples of Incorrect Signal Word and Safety Alert Symbol Placement	17
Figure B3 Word Message with Hazard Description First	18
Figure B4 Word Message with Hazard Avoidance Message First	18
Figure B5 Headline Style Message	18
Figure B6 Non-Headline Style Message	18
Figure B7 Examples of Action Statements	19
Figure B8 Examples of Concise Hazard Description Statements	19
Figure B9 Examples of Consequence Statements	19
Figure B10 Examples of Active Voice vs. Passive Voice Messages	20
Figure B11 Examples of Prepositional and Non-Prepositional Phrases	20
Figure B12 Examples of Ways to Emphasize Portions of a Word Message	20
Figure B13 Outline Format	21
Figure B14 Outline with Bullet Format	21
Figure B15 Continuous Format	21
Figure B16 Left Aligned Ragged Right Text	21
Figure B17 Centered Text	21
Figure B18 Justified Text	21

Figure B19 Mixed Case Lettering	.22
Figure B20 All Upper Case	.22
Figure B21 Selective Use of Upper Case	.22
Figure B22 Examples of Correct and Incorrect Type Spacing	.22
Figure B23 Examples of Type Color Choice	.23
Figure B24 Long Message, Vertical Format	.25
Figure B25 Long Message, Horizontal Format	.25
Figure B26 Short Message Format	.25
Figure B27 Multiple Symbols on Top	.26
Figure B28 Multiple Symbols on Left	.26
Figure B29 Two-Symbol Alternative Format	.26
Figure B30 Symbols on Left	.26
Figure B31 Symbols on Right	.26
Figure B32 Example of Safety Instruction Sign	.27
Figure B33 Example of Safety Instruction Sign as Part of Hazard Alerting Sign	.27
Figure D1 Model of the Possible Results of a Hazardous Situation	.30
Figure D2 Signal Word Selection Process	33

Annexes

А	Guidelines for Increasing Recognition of Safety Sign Components	15
В	Principles and Guidelines for the Design of Environmental and Facility Safety Signs	17
С	Previous Formats for Signal Word Panels	28
D	Risk Estimation and Signal Word Selection	29
E	Informative References	34

Foreword

In 1979, the ANSI Z535 Committee on Safety Colors was combined with the ANSI Z535 Committee on Safety Signs to form the ANSI Z535 Committee on Safety Signs and Colors. The Z535 Committee has the following scope:

To develop standards for the design, application, and use of signs, colors, and symbols intended to identify and warn against specific hazards and for other accident prevention purposes.

While the basic mission and fundamental purpose of the ANSI Z535 Committee is to develop, refine, and promote a single, uniform graphic system used for communicating safety and accident prevention information, the Z535 Committee recognizes that this information can also be effectively communicated using other graphic systems.

The Z535 Committee created subcommittees to update the Z53 and Z35 standards and to write new standards. To date, the following six standards comprise the ANSI Z535 series:

ANSI Z535.1	Safety Colors [ANSI Z53.1-1979 was updated and combined into this standard in 1991]
ANSI Z535.2	<i>Environmental and Facility Safety Signs</i> [ANSI Z35.1-1972 and ANSI Z35.4-1972 were updated and combined into this standard in 1991]
ANSI Z535.3	Criteria for Safety Symbols [new in 1991]
ANSI Z535.4	Product Safety Signs and Labels [new in 1991]
ANSI Z535.5	Safety Tags and Barricade Tapes (for Temporary Hazards) [ANSI Z35.2-1974 was updated and combined into this standard in 1991]
ANSI Z535.6	Product Safety Information in Product Manuals, Instructions, and Other Collateral Materials [new in 2006]

Together, these six standards contain the information needed to specify formats, colors, and symbols for safety signs used in environmental and facility applications, in product and product literature applications, and in temporary safety tag and barricade tape applications.

Published separately is the ANSI Z535 *Color Chart*. This chart gives the user a sample of each of the safety colors: red, orange, yellow, green, blue, purple, brown, grey, white, and black. It also describes each color's ink formulation and closest PANTONE[®] color.

This ANSI Z535.2 standard was prepared by the Z535.2 Subcommittee on Environmental and Facility Safety Signs. The foreword and all annexes in this standard are considered to be informative and not normative. In the vocabulary of writing standards, the word "informative" is meant to convey that the information presented is for informational purposes only and is not considered to be mandatory. The body of this standard is "normative," meaning that this information is considered to be mandatory.

This standard was formulated to provide a visual alerting system to aid in identifying potential hazards known to exist in facilities and the environment. Together, ANSI Z535.1, Z535.2, and Z535.3 contain information needed to specify formats, colors, and symbols for safety signs used in environmental and facility applications. The ANSI Z535.4 and Z535.5 standards are harmonized with this standard to provide appropriate hazard avoidance information for products that might be encountered in the environment (ANSI Z535.4) or temporary changes to the environment (ANSI Z535.5). It is desirable that new signs, symbols, and colors for environmental and facility safety signs specified after the approval of this standard comply with this standard.

The ANSI Z35 Committee on Safety Signs and ANSI Z53 Committee on Safety Colors were combined in 1979 to form the ANSI Z535 Committee on Safety Signs and Colors. The ANSI Z535.4 standard addresses the design of safety signs and labels for application to products and was first published in 1991. In that standard, the format specified for the signal word panel was a simple rectangle. The rectangle contained the safety alert symbol and a signal word (DANGER, CAUTION, or WARNING), and specific safety colors were designated to be used with those signal words (DANGER / Safety Red; WARNING / Safety Orange; CAUTION / Safety Yellow). This contrasted with the longstanding format of

ANSI Z535.2-2011(R2017) Page viii

the black rectangle with red oval and white letters used for danger signs. The initial impetus for the new ANSI Z535.4-1991 header format was that products often had limited space for a sign or label and omitting the older format allowed for bigger letters for the signal word. The ANSI Z535.2-1991 standard retained the longstanding DANGER heading format and created a similar format (using a truncated diamond) for the new warning sign head. Z535.2-1991 allowed the user to use the format of Z535.4-1991 and vice versa.

The ANSI Z535.2-1998 standard showed the preferred format for environmental and safety signs to be the simple header style of the ANSI Z535.4 standard for product safety signs and labels; both standards included the older system. The ANSI Z535.2-1998 standard also stated a preference to use a white background for the message panel to increase contrast and viewing distance. Like the ANSI Z535.4 standard, the Z535.2-1998 standard also required the sign to give information of the consequences of not avoiding the hazard, if the consequence is not obvious.

The ANSI Z535.2-1998 standard was carefully crafted so that the new requirements scheduled to become mandatory in the 2002 edition were stated as *preferred* in the 1998 edition. As of the 2002 standard, the older format is no longer included; the simple header with larger letters and the more referential color is set forth.

ANSI Z535.2-2007 included definitional changes and safety alert symbol formats intended to clarify the distinction between signal words and improve harmonization with international standards. The 2007 edition added a new annex of informative references and a new annex on risk estimation and choice of signal words. The 2007 edition also started the process of eliminating the use of the CAUTION signal word panel without the safety alert symbol for procedures not related to physical safety, such as property damage. The preferred signal word is NOTICE. The use of CAUTION for that purpose is phased out in the 2011 edition.

The 2011 edition of this standard is revised to better harmonize with the ANSI Z535.4, Z535.5, and Z535.6 standards. The standard is also reorganized to describe better the five types of safety signs used in facilities and the environment (i.e., hazard alerting signs, notice signs, safety instruction signs, safety equipment location signs, and fire equipment location signs). In tandem with these changes, the definitions for "accident," "harm," and "incident" are refined to more clearly delineate a separation between physical injury and other safety-related issues (e.g., property damage, sanitation, housekeeping).

Due to differences in color printing technologies and color monitors, the appearance of colors in this standard may not be accurate. See the ANSI Z535-2011 Safety Color Chart to view accurate colors.

The 2011 version of this standard was reaffirmed in 2017.

This standard was processed and approved for submittal to ANSI by the Accredited Standards Committee Z535 on Safety Signs and Colors. Committee approval of this standard does not necessarily imply that all committee members voted for its approval. At the time it approved this standard, the Z535 Committee had the following members:

Geoffrey Peckham, Chair J. Paul Frantz, Vice Chair

Paul Orr, Secretary

Organization Represented:

American Society of Safety Engineers

Name of Representative:

J. Paul Frantz Thomas F. Bresnahan (Alt.) Timothy Rhoades (Alt.)

August F. Manz

American Welding Society

Applied Materials

Applied Safety and Ergonomics

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International Safety Equipment Association

International Staple, Nail, and Tool Association

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1 Introduction

The basic mission and fundamental purpose of the ANSI Z535 Committee is to develop, refine, and promote a single uniform graphic system used for presenting safety and accident prevention information. Such an approach assists standard users in the efficient development of environmental and facility safety signs and assists sign viewers in recognizing signs as being related to safety.

This standard sets forth a system for presenting safety and accident prevention information through environmental and facility safety signs. It consolidates a number of previous graphic approaches into a common design direction selected to present hazard information in an orderly and visually consistent manner.

This standard sets forth a hazard communication system that is designed to complement the ANSI Z535.4-2011(R2017), ANSI Z535.5-2011(R2017), and ANSI Z535.6-2011(R2017) standards. While these standards are similar in many respects, they each address different physical and visual requirements. As a result, the Z535 Committee has recognized and affirmed the need for these separate standards.

2 Scope and Purpose

2.1 Scope

This standard sets forth requirements for the design, application, and use of safety signs in facilities and in the environment.

2.2 Purpose

The purposes of this standard are to:

- a. establish a uniform and consistent visual layout for safety signs to be located in facilities and in the environment;
- b. minimize the proliferation of designs for environmental and facility safety signs; and
- c. establish a national uniform system for signs that communicate safety information.