

SECTION 2.0 COMBINATIONS OF LOADS

SECTION 2.1 GENERAL

Buildings and other structures shall be designed using the provisions of either Section 2.3 or 2.4. Either Section 2.3 or 2.4 shall be used exclusively for proportioning elements of a particular construction material throughout the structure.

SECTION 2.2 SYMBOLS AND NOTATION

D = dead load;
 D_i = weight of ice;
 E = earthquake load;
 F = load due to fluids with well-defined pressures and maximum heights;
 F_w = flood load;
 H = load due to lateral earth pressure, ground water pressure, or pressure of bulk materials;
 L = live load;
 L_r = roof live load;
 R = rain load;
 S = snow load;
 T = self-straining force;
 W = wind load;
 W_i = wind-on-ice determined in accordance with Section 10.

SECTION 2.3 COMBINING FACTORED LOADS USING STRENGTH DESIGN

2.3.1 Applicability. The load combinations and load factors given in Section 2.3.2 shall be used only in those cases in which they are specifically authorized by the applicable material design standard.

2.3.2 Basic Combinations. Structures, components, and foundations shall be designed so that their design strength equals or exceeds the effects of the factored loads in the following combinations:

1. $1.4(D + F)$
2. $1.2(D + F + T) + 1.6(L + H) + 0.5(L_r \text{ or } S \text{ or } R)$
3. $1.2D + 1.6(L_r \text{ or } S \text{ or } R) + (L \text{ or } 0.8W)$
4. $1.2D + 1.6W + L + 0.5(L_r \text{ or } S \text{ or } R)$
5. $1.2D + 1.0E + L + 0.25$

6. $0.9D + 1.6W + 1.6H$
7. $0.9D + 1.0E + 1.6H$

Exceptions:

1. The load factor on L in combinations (3), (4), and (5) is permitted to equal 0.5 for all occupancies in which L_o in Table 4.1 is less than or equal to 100 psf, with the exception of garages or areas occupied as places of public assembly.
2. The load factor on H shall be set equal to zero in combinations (6) and (7) if the structural action due to H counteracts that due to W or E . Where lateral earth pressure provides resistance to structural actions from other forces, it shall not be included in H but shall be included in the design resistance.

Each relevant strength limit state shall be investigated. Effects of one or more loads not acting shall be investigated. The most unfavorable effects from both wind and earthquake loads shall be investigated, where appropriate, but they need not be considered to act simultaneously. Refer to Section 9.2.2 for specific definition of the earthquake load effect E .¹

2.3.3 Load Combinations Including Flood Load. When a structure is located in a flood zone (Section 5.3.1), the following load combinations shall be considered:

1. In V-Zones or Coastal A-Zones, $1.6W$ in combinations (4) and (6) shall be replaced by $1.6W + 2.0F_w$.
2. In noncoastal A-Zones, $1.6W$ in combinations (4) and (6) shall be replaced by $0.8W + 1.0F_w$.

2.3.4 Load Combinations Including Atmospheric Ice Loads. When a structure is subjected to atmospheric ice and wind-on-ice loads, the following load combinations shall be considered:

1. $0.5 (L_r \text{ or } S \text{ or } R)$ in combination (2) shall be replaced by $0.2D_i + 0.5S$.
2. $1.6W + 0.5 (L_r \text{ or } S \text{ or } R)$ in combination (4) shall be replaced by $D_i + W_i + 0.5S$.
3. $1.6W$ in combination (6) shall be replaced by $D_i + W_i$.

¹ The same E from Section 9 is used for both Section 2.3.2 and Section 2.4.1. Refer to the Commentary for Section 9.

Minimum Design Loads For Buildings And Other Structures Asce 7

**American Society of Civil Engineers
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Minimum Design Loads For Buildings And Other Structures Asce 7:

Minimum Design Loads for Buildings and Other Structures, Standard ASCE/SEI 7-10 American Society of, 2013-11-30
Prepared by the Committee on Minimum Design Loads for Buildings and Other Structures of the Codes and Standards Activities Division of the Structural Engineering Institute of ASCE Minimum Design Loads for Buildings and Other Structures ASCE SEI 7 10 provides requirements for general structural design and includes means for determining dead live soil flood snow rain atmospheric ice earthquake and wind loads as well as their combinations which are suitable for inclusion in building codes and other documents This Standard a revision of ASCE SEI 7 05 offers a complete update and reorganization of the wind load provisions expanding them from one chapter into six The Standard contains new ultimate event wind maps with corresponding reductions in load factors so that the loads are not affected and updates the seismic loads with new risk targeted seismic maps The snow live and atmospheric icing provisions are updated as well In addition the Standard includes a detailed Commentary with explanatory and supplementary information designed to assist building code committees and regulatory authorities The third printing of Standard ASCE SEI 7 10 incorporates errata and includes Supplement 1 In addition the seismic commentary has been expanded and completely revised Standard ASCE SEI 7 is an integral part of building codes in the United States Many of the load provisions are substantially adopted by reference in the International Building Code and the NFPA 5000 Building Construction and Safety Code Structural engineers architects and those engaged in preparing and administering local building codes will find the structural load requirements essential to their practice

Minimum Design Loads for Buildings and Other Structures, SEI/ASCE 7-05 American Society of Civil Engineers Staff, Asce, 2005 The ASCE Standard 7 05 Minimum Design Loads for Buildings and Other Structures provides requirements for general structural design and includes means for determining dead live soil flood wind snow rain atmospheric ice and earthquake loads and their combinations that are suitable for inclusion in building codes and other documents This Standard is a revision of ASCE SEI 7 02 This Standard includes revised and significantly reorganized provisions for seismic design of structures as well as revisions in the provisions for determining live flood wind snow and atmospheric ice loads Also included is Supplement No 1 which is a detailed commentary containing explanatory and supplementary information to assist users of this Standard Structural engineers architects and those engaged in preparing and administering local building codes will find the structural load requirements essential to their practice

Minimum Design Loads for Buildings and Other Structures American Society of Civil Engineers, 2010 Minimum Design Loads for Buildings and Other Structures ASCE SEI 7 10 is a complete revision of ASCE Standard 7 05 ASCE 7 10 offers a complete update and reorganization of the wind load provisions expanding them from one chapter into six to make them more understandable and easier to follow ASCE 7 10 provides new ultimate event wind maps with corresponding reductions in load factors so that the loads are not affected It updates the seismic loads of ASCE 7 05 offering new risk targeted seismic maps The snow load live load and atmospheric

icking provisions of ASCE 7 05 are all updated as well ASCE Standard 7 10 provides requirements for general structural design and includes means for determining dead live soil flood wind snow rain atmospheric ice and earthquake loads and their combinations that are suitable for inclusion in building codes and other documents A detailed commentary containing explanatory and supplementary information to assist users of ASCE 7 10 is included with each chapter ASCE 7 10 is an integral part of the building codes of the United States Structural engineers architects and those engaged in preparing and administering local building codes will find the structural load requirements essential to their practice

Minimum Design Loads and Associated Criteria for Buildings and Other Structures American Society of Civil Engineers,2017

Earlier versions of the standard have title Minimum design loads for buildings and other structures

Guide to the Use of the Wind Load Provisions of ASCE 7-95 Kishor C. Mehta,Richard D. Marshall,1998-01-01 The objective of the Guide to the Use of the Wind Load Provisions of ASCE 7 95 is to provide guidance in the use of the wind load provisions set forth in ASCE Standard 7 95 The Guide is a completely new document because the wind load provisions underwent major changes from the previous ASCE Standard 7 88 or ASCE 7 93 The Guide contains six example problems worked out in detail which can provide direction to practicing professionals in assessing wind loads on a variety of buildings and other structures Errata and Clarifications from the previous guide is also included

Minimum Design Loads for Buildings and Other Structures-American Society of Civil Engineers--ASCE 7-98 ASCE (American Society of Civil Engineers),1998

Minimum Design Loads for Buildings and Other Structures - ASCE/SEI 7-05 ASCE (American Society of Civil Engineers),2005

An Introduction to Design Loads for Piers and Wharves for Professional Engineers J. Paul Guyer,2023-11-12 Introductory technical guidance for civil engineers marine engineers and other professional engineers and construction managers interested in design and construction of piers and wharves Here is what is discussed 1 GENERAL 2 DEAD LOADS 3 VERTICAL LIVE LOADS 4 HORIZONTAL LOADS 5 LOAD COMBINATIONS

Minimum Design Loads for Buildings and Other Structures American Society of Civil Engineers,2013 Standard ASCE SEI 7 10 provides requirements for general structural design and includes means for determining various loads and their combinations which are suitable for inclusion in building codes and other documents This third printing incorporates errata and includes Supplement 1 and expanded seismic commentary

Minimum Design Loads for Buildings and Other Structures-American Socieity of Civil Engineers--ASCE 7-02 ASCE (American Society of Civil Engineers),2003

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