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Chapter 4

Deflection Criteria

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### Deflection Criteria

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Deflection Criteria

## **Chapter 2 - Design Considerations**

Chapter 12 SEISMIC DESIGN

REQUIREMENTS FOR BUILDING STRUCTURES ... Deflection

Amplification Factor, Cd b Structural System Limitations ... Ordinary

plain masonry shear walls 14.4 11/2 21/2 11/4 NL NP NP NP NP

120 ASCE 7-05. P1: JsY ASCE003-12.tex

ASCE003/SIE-v1.cls

October 15, 2005

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### Deflection Criteria

17:48

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#### **Deflections in Deck and Balcony Railings - Pie Resource ...**

Wind tunnel tests in accordance with ASCE 49 and Sections 31.4 and 31.5 of ASCE 7. The wind speeds in Figures 1609.3 (1), 1609.3 (2) and 1609.3 (3) are ultimate design wind speeds,  $V_{ult}$ , and shall be converted in accordance with Section 1609.3.1 to

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### Deflection Criteria

nominal design wind speeds,  $V_{asd}$ , when the provisions of the standards referenced in Exceptions 4 and 5 are used.

### **Deflection Criteria - ASCE Library**

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4 Deflection Criteria

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Chapter 12 SEISMIC

DESIGN

REQUIREMENTS FOR

BUILDING STRUCTURES

4. Standards,

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Engineering-United

States. I. American

Society of Civil

Engineers. TH851.M56

2010

624.1'75021873—dc22

2010011011 Published

by American Society of

Civil Engineers 1801

Alexander Bell Drive

Reston ...

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### **3.7 ASCE 7 Seismic Design Criteria ASCE 7 - Chapter 11**



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The pressure coefficients for the Main Wind Force Resisting System (MWFRS) in Chapter 27 of ASCE 7-16 for buildings above 60ft date from the mid-1970s, primarily from the work of Akins et al. (1977). While tweaks to them have been made over the years, a systematic study using modern wind tunnel test methods for code-

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based design has not

been conducted in  
many years.

### **Chapter 5**

#### **STRUCTURAL**

#### **DESIGN CRITERIA**

ANSI/ASCE/T&DI

21.4-08 Automated

People Mover

Standards—Part 4

SEI/ASCE 23-97 Specifi

cation for Structural

Steel Beams with Web

Openings ASCE/SEI

24-05 Flood Resistant

Design and

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Construction ASCE/SEI  
25-06 Earthquake-  
Actuated Automatic  
Gas Shutoff Devices  
ASCE 26-97 Standard  
Practice for Design of  
Buried Precast  
Concrete Box Sections

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Citation; ... American  
Society of Civil  
Engineers. 1801  
Alexander Bell Drive.  
Reston, VA  
20191-4400.  
703-295-6300 |  
800-548-2723.

**Overview of Building  
Code Requirements  
for Masonry  
Structures**

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### Deflection Criteria

ASCE 7-05,<sup>1</sup> the standard referenced in the 2006<sup>2</sup> and 2009<sup>3</sup> editions of the IBC, did not undergo the recently usual three-year update. In the last-published edition, ASCE (American Society of Civil Engineers) 7-10,<sup>4</sup> referenced by the 2012 IBC,<sup>5</sup> major revisions have taken place in wind design, seismic design, and other provisions from ASCE

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Deflection Criteria

7-05.

Asce Library

**CHAPTER C11  
SEISMIC DESIGN  
CRITERIA - ASCE  
Library**

02/ASCE 5-02/TMS

402-02) and

Specification for

Masonry Structures

(ACI 530.1-02/ASCE 6

... chose to maintain

masonry design criteria

within the Uniform

Building Code itself,

rather than adopting

the MSJC standards by

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Chapter 4

Deflection Criteria  
... (New Chapter)

Chapter 4 - Prestressed  
Masonry Chapter 5 -  
Empirical Design of  
Masonry Chapter 6 -  
Veneer Chapter 7 ...

**Chapter 12 SEISMIC  
DESIGN  
REQUIREMENTS FOR  
BUILDING  
STRUCTURES**

2000 Provisions,  
Chapter 5 50  
limitations on height  
based on Seismic  
Design Category

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### Deflection Criteria

indicated in the table. Each type is subdivided by the types of vertical element used to resist lateral seismic forces. The appropriate response modification coefficient,  $R$ , system overstrength factor,  $S_0$ , and deflection amplification factor,  $C_d$ , indicated in Table 5.2.2 shall be used in determining the base ...



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### Deflection Criteria **Standards | ASCE**

Chapter 35 of the 2006

IBC also adopts the

ASCE Standard

ASCE/SEI 7-05

Minimum Design Loads

for Buildings and Other

Structures by

reference. Section 4.4

of ASCE/SEI 7-05 has

similar load

requirements as the

IBC including the

200-pound point load,

the 50 pound-force per

linear foot and the infill

load of 50 pounds over

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### Deflection Criteria

a 1-foot square area.

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### **Chapter 4**

### **Commentary**

### **STRUCTURAL**

### **DESIGN CRITERIA**

#### 2.5.4.1 Ground Snow

Loads: Per ASCE 7

Section 7.0, or local

code requirements.

#### 2.5.4.2 Flat-Roof Snow

Loads: (ASCE 7,

Equation 7-1) Although

greenhouses rarely, if

ever, have flat roofs,

the calculation of flat-

roof snow loads,  $p_f$ , is

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### Deflection Criteria

necessary for the  
calculation of

#### **Significant changes from ASCE 7-05 to ASCE 7-10, part 1 ...**

3.4. Bridging

attachments. 4.

Deflection criteria for  
live and total loads for  
non-SJI standard joists.

5. Size, location and  
connections for all

bridging. 6. Joist

headers. Steel joist

placement plans do not

require the seal and sig-

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### Deflection Criteria

nature of the joist  
manufacturer's  
registered design  
professional. 2207.5  
Certification. At  
completion of ...

## **CHAPTER FOUR ELASTIC FOUNDATIONS**

acceptance criteria of  
steel and concrete  
columns, and anchor  
testing. ... (Chapter 4)

TIERS 19 TIER 2  
(Chapter 5) Upon  
completion of the Tier

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### Deflection Criteria

1 process, any items found “Non-Compliant” or ... per section 11.4 of ASCE 7, at a site. [S XS = S MS = F a S S and S X1 = S M1 = F v S 1] ...

## **Minimum Design Loads for Buildings and Other Structures**

Chapter 5 - Earthquake Loads and Load Combinations SDR  
Workbook - 2015 IBC  
Version 1-74 Steven T.

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### Deflection Criteria

Hiner, MS, SE Ev =  
effect of vertical  
seismic forces (i.e., due  
to vertical ground  
motions) as defined in  
ASCE 7 - §12.4.2.2. Ev  
can be positive or  
negative due to the  
cyclic nature of  
(vertical) seismic  
ground motions.  
Horizontal Seismic  
Load Effect with  
Overstrength Factor,  
Emh ASCE 7 ...

## **Chapter 16:**

*Page 22/27*

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### Deflection Criteria

#### **Structural Design, California Building Code ...**

The min. deflection occurs at the smallest distance for which  $q = 0$ . From we find  $A \beta x = 0$  at  $\beta x = 3p/4$  or  $x = 1432\text{mm}$ , corresponding  $D \beta x = -0.0670$ , so (This upward deflection reminds us our assumption on the beam -foundation connection) (3)

Bending moment is  $M$

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### Deflection Criteria

$= -P \sigma B \beta x / b$ , from the table we find that  $Bbx$  has largest value

### **ASCE 41: Seismic Evaluation and Retrofit of Existing Buildings**

The design response spectrum specified in Section 11.4 and used in the basic methods of analysis in Chapter 12 is a smoothed and normalized approximation for many different



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### Deflection Criteria

recorded ground motions. The design limit state for resistance to an earthquake is unlike that for any other load within the scope of ASCE/SEI 7. The

## **Chapter 4 Deflection Criteria Asce Library**

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#### STRUCTURAL DESIGN

#### CRITERIA 4.1 GENERAL

4.1.1 Scope. ... ASCE 7  
Minimum Design Loads  
for Buildings and Other

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$\Delta_a$  The allowable story drift as specified in Sec. 4.5.1.  
 $\delta_x$  The deflection of Level  $x$  at the center of the mass at and above Level  $x$ .

## **Chapter 4**

### **STRUCTURAL**

### **DESIGN CRITERIA**

2003 Commentary,  
Chapter 4 38 reduction  
in design strength.

Recently, the  
Structural Engineers  
Association of

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### Deflection Criteria

California proposed such an approach for incorporation into the 1997 Uniform Building Code. That proposal incorporated two R factor components, termed  $R_0$  and  $R_d$ , to represent the reduction due to structural overstrength and inelastic behavior, respectively.