



Minimum Design Loads for Buildings and Other Structures
ASCE/SEI 7-10
 (Applies to 1st, 2nd and 3rd Printings)

Supplement 2

Effective: September 18, 2014

This document contains errata/supplemental information to the above standard. It may also be accessed through the Structural Engineering Institute website at www.asce.org/sei/supplements.

THIS TYPE AND SIZE FONT INDICATES DIRECTIVE TEXT THAT IS NOT PART OF THE STANDARD. CHANGES TO THE STANDARD ARE INDICATED USING STRIKE-OUT AND UNDERLINE TEXT. A HORIZONTAL RULE INDICATES A GAP BETWEEN SECTIONS.

Table 15.4-2 Seismic Coefficients for Nonbuilding Structures not Similar to Buildings

DELETE ENTRY FOR TANKS AND VESSELS SUPPORTED ON STRUCTURAL TOWERS SIMILAR TO BUILDINGS.

Nonbuilding Structure Type	Detailing Requirements ^c	R	Ω_0	C_d	B	C	D	E	F
Tanks or vessels supported on structural towers similar to buildings	15.5.5	Use values for the appropriate structure type in the categories for building frame systems and moment resisting frame systems listed in Table 12.2.1 or Table 15.4.1.							

C15.4.1 Design Basis.

BEGIN CHANGES AT PARAGRAPH 6.

Some entries in Table 15.4-2 may seem to be conflicting or confusing. For example, the first major entry is for elevated tanks, vessels, bins, or hoppers. A subset of this entry is for tanks on braced or unbraced legs. This subentry is intended for structures where the supporting columns are integral with the shell (such as an elevated water tank). Tension-only bracing is allowed for such a structure. Where the tank or vessel is supported by building-like frames, the frames are to be designed in accordance with all of the restrictions normally applied to building frames. ~~The entry for tanks or vessels supported on structural towers similar to buildings assumes that the operating weight of the supported tank or vessel is less than 25 percent of the total weight; if the ratio is greater than 25 percent, the proper entry is that most closely related to the subject vessel or bin.~~ Section 15.3 provides provisions for nonbuilding structures supported by building-like frames. Beginning with the 2005 edition of ASCE 7, Table 15.4.2 contained an entry for “Tanks or vessels supported on structural towers similar to buildings”. Under certain circumstances, text provided with this table entry conflicted with the requirements of Section 15.3. If the weight of the

nonbuilding structure is relatively small compared to the weight of the structure (less than 25% of the weight of the structure) or the nonbuilding structure is rigid, the supported nonbuilding structure can be treated as a nonstructural component and the values of the supporting structure seismic coefficients can be taken from Table 15.4-1. Under these circumstances, the deleted entry was correct. However, if the weight of the supported nonbuilding structure is not small and the nonbuilding structure is flexible (which is generally the case especially when you consider the vertical and rocking flexibility of supporting floor beams), the seismic coefficients are determined as the most conservative