

Errata

2005 Edition of ASCE 48 Design of Steel Transmission Pole Structures

This document containing, the errata to ASCE 48-05, is periodically updated and posted on the SEI website at www.SEInstitute.org. The errata are organized by date in descending order (most recent to furthest past) hence regular users of this document need only review the errata posted since their previous use. This document will be continuously updated as additional errata are identified.

First errata posting: October 11, 2006

Errata Posted on January 22, 2007

Chapter 9, page 16:

Revise Section 9.3.4 as shown below (definition of β):

9.3.4 Development Length. The Owner shall provide a minimum of 3 in. (76 mm) clear concrete cover. The development length for threaded reinforcing bar used as anchor bolts shall be calculated as follows:

$$L_d = l_d \alpha \beta \gamma \quad (\text{Eq. 9.3-5})$$

where:

L_d = minimum development length (embedment) of anchor bolt;
 l_d = basic development length of anchor bolt;

The basic development length for the bolt shall be:

for bars up to and including #11 (35M), use larger of

$$l_d = \frac{1.27 \Gamma A_g F_y}{\sqrt{f'_c}} \quad (\text{Eq. 9.3-6})$$

or

$$l_d = 0.400 \Phi d F_y \quad (\text{Eq. 9.3-7})$$

for #14 (45M) bars

$$l_d = \frac{2.69 \Theta F_y}{\sqrt{f'_c}} \quad (\text{Eq. 9.3-8})$$

for #18 & #18J (55M) bars

$$l_d = \frac{3.52 \Theta F_y}{\sqrt{f'_c}} \quad (\text{Eq. 9.3-9})$$

where;

A_g = gross area of anchor bolt;

- $A_{s(\text{req'd})}$ = required tensile stress area of bolt
 F_y = specified minimum yield stress of anchor bolt;
 f'_c = specified compressive strength of concrete;
 d = anchor bolt diameter;
 Γ = 1.00 for F_y & f'_c in ksi and A_g in in.², and 0.0150 for F_y & f'_c in MPa and A_g in mm²;
 Φ = 1.00 for F_y in ksi and d in in., and 0.145 for F_y in MPa and d in mm
 θ = 1.00 for F_y & f'_c in ksi and 9.67 for F_y & f'_c in MPa;
 α = 1.0 if $F_y = 60$ ksi (414 MPa), or 1.2 if $F_y = 75$ ksi (517 MPa);
 ~~β = 0.8 if the bolt spacing up to and including 6 in. (152 mm) on center, or 1.0 if the bolt spacing less than 6 in. (152 mm) on center; and~~
 β = 0.8 if the bolt spacing is equal to or greater than 6 in. (152 mm) on center, or 1.0 if the bolt spacing is less than 6 in. (152 mm) on center; and
 γ = $A_{s(\text{req'd})} / A_g$.