AMERICAN WOOD COUNCIL

January 2024

ERRATA

to the 2012 Edition of Commentary for the *National Design Specification (NDS) for Wood Construction*

(All prior PDF and print versions)

Page	**Revision**
243	Revise equation C11.2.2-2 as shown in red below:

$$K_W = 1.2\left(\frac{14250}{6}\right) \qquad \text{(C11.2.2-2)}$$

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January 2021

ERRATA
to the 2018 and Prior Editions of
the National Design Specification® (NDS®) for Wood Construction

Page	**Revision**
91	Revise footnote 1 in Table 12.5.1D as follows:

1. The ℓ/D ratio used to determine the minimum ~~edge distance~~ spacing between rows shall be the lesser of:
   (a) length of fastener in wood main member/D = ℓ_m/D
   (b) total length of fastener in wood side member(s)/D = ℓ_s /D

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July 2020

ERRATA
to the 2018 and Prior Editions of
the National Design Specification® (NDS®) for Wood Construction

Page	Revision
166	Clarifies that the following calculations in Example E.7 Sample Solution of Row of Bolts is intended for a single-row bolted connection with a 3-1/2″ thick main member and 1-1/2″ thick side member:

E.7 Sample Solution of Row of Bolts

Calculate the net section area tension and row tear-out adjusted ASD design capacities for the single-shear single-row bolted connection represented in Figure E2.

Main and Side Members:
#2 grade Hem-Fir ~~2x4~~ lumber. See *NDS Supplement* Table 4A – Visually Graded Dimension Lumber for reference design values. Adjustment factors C_D, C_T, C_M, and C_i are assumed to equal 1.0 in this example for calculation of adjusted design values.

$F_t' = 525 \text{ psi } (C_F) = 525(1.5) = 788 \text{ psi}$

$F_v' = 150 \text{ psi}$

Connection Details:
Bolt diameter, D: 1/2 in.
Bolt hole diameter, D_h: 0.5625 in.
Adjusted ASD bolt design value, $Z_{\|}'$: 550 lbs
(See NDS Table 12A for 3-1/2″ main member thickness and 1-1/2″ side member thickness. For this trial design, the group action factor, C_g, is taken as 1.0).

Adjusted ASD Connection Capacity, n $Z_{\|}'$:

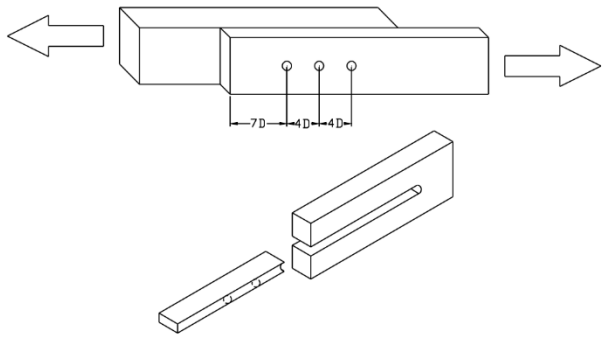
$nZ_{\|}' = (3 \text{ bolts})(550 \text{ lbs}) = 1{,}650 \text{ lbs}$

~~Adjusted~~ For side member, adjusted ASD Net Section Area Tension Capacity, Z_{NT}':

$$Z_{NT}' = F_t' \, t \, [w - n_{row} \, D_h]$$

$Z_{NT}' = (788 \text{ psi})(1.5'')[3.5'' - 1(0.5625'')] = 3{,}470 \text{ lbs}$

Figure E2 Single Row of Bolts



~~Adjusted~~ For side member, adjusted ASD Row Tear-Out Capacity, Z_{RT}':

$$Z_{RTi}' = n_i F_v' \, ts_{critical}$$

$Z_{RT1}' = 3(150 \text{ psi})(1.5'')(2'') = 1{,}350 \text{ lbs}$

In this sample calculation, the adjusted ASD connection capacity is limited to 1,350 pounds by row tear-out, Z_{RT}'.

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May 2018

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to the 2012 Edition of
the National Design Specification® (NDS®) for Wood Construction

Page	**Revision**
40	Revise K_{rs} as described in Equation (5.4-3) as follows (replace d_e with d_c):

K_{rs} = empirical radial stress factor

= $0.29(\cancel{d_e}\,d_c/R_m) + 0.32 \tan^{1.2}\phi_T$

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November 2013

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to the 2012 Edition of
the National Design Specification® (NDS®) for Wood Construction
(web versions dated 11-11 and 10-12, printed version 10-12)

Page **Revision**

38 Revise Equations 5.3-4 and 5.3-5 as follows:

~~$C_I = \frac{1}{\sqrt{1+\left(F_b \tan\theta / F_v\right)^2 + \left(F_b \tan^2\theta / F_{c\perp}\right)^2}}$~~

$$C_I = \frac{1}{\sqrt{1+\left(\frac{F_b \tan\theta}{F_v C_{vr}}\right)^2 + \left(\frac{F_b \tan^2\theta}{F_{c\perp}}\right)^2}} \qquad (5.3\text{-}4)$$

~~$C_I = \frac{1}{\sqrt{1+\left(F_b \tan\theta / F_v\right)^2 + \left(F_b \tan^2\theta / F_{rt}\right)^2}}$~~

$$C_I = \frac{1}{\sqrt{1+\left(\frac{F_b \tan\theta}{F_v C_{vr}}\right)^2 + \left(\frac{F_b \tan^2\theta}{F_{rt}}\right)^2}} \qquad (5.3\text{-}5)$$

Page **Revision**

82 Revise the last sentences in Section 11.3.5.2 as follows:

"Where p includes the length of a tapered tip, E, the dowel bearing length, ℓ_s, or ℓ_m, shall not exceed p – E/2.

a) For Lag screws, E, is permitted to be taken from Appendix L, Table L2.
b) For wood screws, nails, and spikes, E, is permitted to be taken as 2D.

December 2011

ERRATA
to the 2011 Edition of
the National Design Specification® (NDS®) for Wood Construction
(web version dated 11-11)

Page	**Revision**
75	~~11.2.3.4~~ 11.2.3.5 Nails and spikes shall not be loaded in withdrawal from end grain of wood.

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