Errata #1 – May 23, 2006

1. On page 1-15 line 2, replace "The allowable web crippling strength … " with "The factored web crippling resistance …"

2. On page 2-15 line 5, replace "Weld group allowable moment (stud material governs)" with "Weld group factored moment resistance (stud material governs)."

3. On page 3-3 top, add Figure 3-2 (see below)

4. On page 4-20 line 14, replace "load bearing stud above" with "jack stud below".

5. On page 4-22 bottom, add the following sentence:

   "The angle below will connect to a track section (not shown in Figure 4-12) which forms a box section with the jack stud."

6. On page 4-23 line 14 from the bottom, replace "required" with "factored" twice.

![Figure 3-2](image_url)
1. On page 2-5, 2nd last line, replace "0.877" with "0.887".

2. On page 2-23, under "Screw input values":
   - Replace "Clip angle" with "Stud"
   - Replace "Bridging channel" with "Track"

3. On page 2-25, replace from "See Figure 2-18 …" to end of Step 5(e) with the following:

   See Figure 2-18. Using the linear method, the maximum factored load per mm of weld length is given by the vector addition of 2 stress components:

   \[
   q_f = \sqrt{\left(\frac{M_f}{S_{weld}}\right)^2 + \left(\frac{V_f}{A_{weld}}\right)^2}
   \]

   \[
   S_{weld} = \frac{I_{weld}}{c} = 2 \left[\frac{(1/12)(25)^3 + 25(62.5)^2}{75}\right] = 2640 \text{ mm}^2
   \]

   \[
   A_{weld} = L = 2(25) = 50 \text{ mm}
   \]

   \[
   q_f = \sqrt{\left(\frac{15700}{2640}\right)^2 + \left(\frac{1850}{50}\right)^2}
   \]

   \[
   = 37 \text{ N/mm}
   \]

   \[
   q_r = \phi \frac{P_f}{L} = \phi 0.75t_{F_u}
   \]

   \[
   = 0.40(0.75)(1.146)(310)
   \]

   \[
   = 107 \text{ N/mm} > 37 \text{ N/mm} \quad \text{OK}
   \]

4. On page 2-38, 12th line, replace "0.532 kN" with "0.532 kN.m"

5. On page 2-40, Figure 2-31, reverse the direction of force \(T_f\).

6. On pages 2-42 & 2-43, Figures 2-32 & 2-33, remove the \(T_f\) label from the bottom force acting at "a". \((\text{The magnitude of the force at "a" does not equal } T_f)\)

7. On page 2-43, last line, replace "2.61 kN" with "4.00 kN".

8. On page 2-47, 9th line from bottom, replace "A_y" with "A_n".

9. On page 2-47, 6th line from bottom, replace "8(f)" with "8(d)".

10. On page 2-48, 5th line, replace "8(f)" with "8(d)".
11. On page 3-17, the tributary area for the $P_{DL}$ calculation is shown incorrectly. Replace with:

$$P_{DL} = (\text{stud spacing})(W_D)(H_{FLR/FLR})$$
$$= (0.600)(0.8)(3.78)$$
$$= 1.814 \text{ kN (specified)}$$

Note that this error affects subsequent calculations in Steps 7(d) through 7(i). These subsequent calculations have not been revised to reflect this higher 1.814 kN dead load.

12. On page 4-15, 5th line from bottom, replace "PD_L" with "P_{DL}".

13. On page 4-20, 14th line, replace "load bearing stud above" with "jack stud below".

14. On page 4-22, add a sentence at the end of the last paragraph: "The angle at the bottom of the box header will connect to a short piece of track which in turn connects to the jack stud – not shown on Figure 4-12."

15. On page 4-23, reword as follows:
   
i) Bridging axial load

   $$\text{Bridging factored axial load} = 0.02 \times \text{stud factored axial load} \times \text{number of studs braced (n)}.$$

16. On page 4-28, replace "$P_{Ex} =$" with "$P_{Ey} =$" 2nd occurrence only.

17. On page 4-34, 6th line from bottom, replace "9010 N" with "9010 N > 5040 N OK"

18. On page 4-35, 2nd line, replace "7550 N" with "7550 N > 5040 N OK"

19. On page F-1, Note F-1, replace "greater than" with "less than".

20. On Page H-1, 2nd paragraph, replace "particular", with "particularly".

21. On page J-1, 4th line from bottom, add quotation mark after 600S162-54 (50).