Lightweight Steel Framing Design Manual, 2nd Edition
Canadian Sheet Steel Building Institute

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.
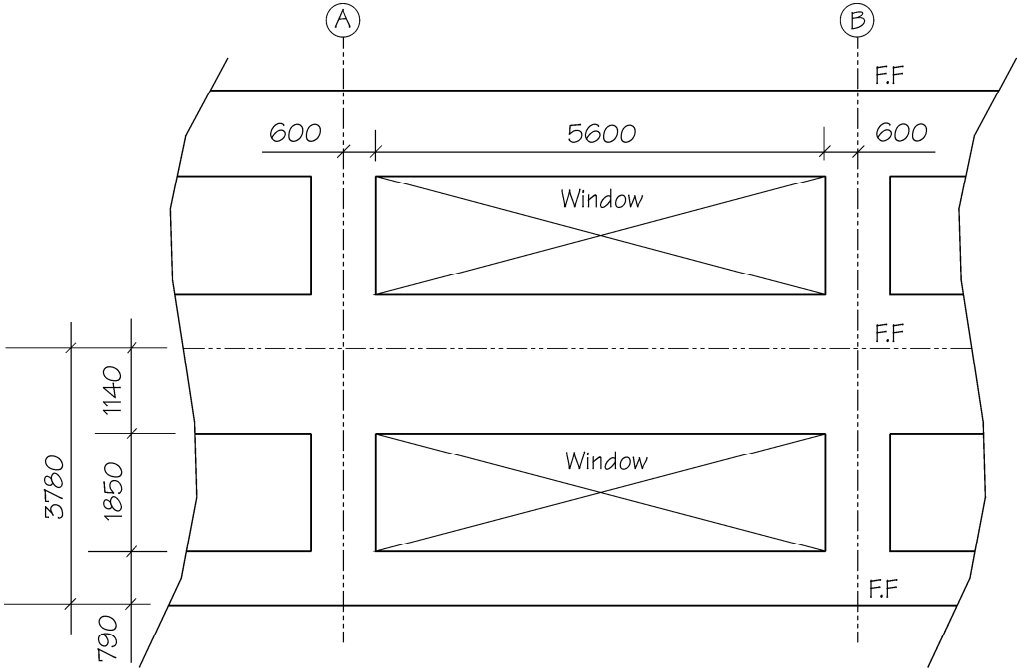

FIGURE 3-2

Errata #2 – May 14, 2007

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:

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

   $$
   \begin{aligned}
   S_{weld} &= I_{weld}/c \\
   &= 2\,[(1/12)(25)^3 + 25(62.5)^2]\,/\,75 \\
   &= 2640 \text{ mm}^2
   \end{aligned}
   $$

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

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

   $$= 37 \text{ N/mm}$$

   $$
   \begin{aligned}
   q_r = \phi P_n/L &= \phi 0.75 t F_u \\
   &= 0.40(0.75)(1.146)(310) \\
   &= 107 \text{ N/mm} > 37 \text{ N/mm} \qquad\qquad \textit{OK}
   \end{aligned}
   $$

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". *(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_g" 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} = (stud spacing)(W_D)($H_{FLR/FLR}$)
= (0.600)(0.8)(3.78)
= 1.814 kN (specified)

Note that this error, affects subsequent calculations in Steps 7(d) through 7(i). These subsequent calculations have <u>not</u> 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

Bridging factored axial load = 0.02 x stud factored axial load x 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).