

## 2006 IBC Structural/Seismic Design Manual, Vol. 2

### ERRATA — FIRST, SECOND AND THIRD PRINTINGS

Page 4, under Seismic and site data, first 2 lines now read . . .

$$S_s = 1.78g$$

$$S_1 = 0.55g$$

Page 10, equation on line 6, under text paragraph, now reads . . .  $S_s = 1.78$

Page 11, first text paragraph, line 2, change word “standard” to “simplified static”

Equation 12.14-11 now reads . . .

$$V = \frac{FS_{DS}}{R} W = \frac{1.1(1.0)}{6.5} W = 0.169W < 0.183W$$

under “where”

leave . . .

$$F = 1.1 \text{ for two-story buildings}$$

add . . .

$$S_{DS} = (2/3) 1.0 \times 1.5 = 1.0$$

$$S_s = 1.5 \text{ max}$$

$$F_a = 1.0 \text{ for } S_s \geq 1.25$$

Table 11.4.1

The engineer can choose which method to use. This design example will illustrate the Equivalent Lateral Force Procedure.

Page 30, under figure . . .

$$\text{Number of 10d nails required each end} = \frac{560 \text{ lb}}{115 \text{ lb/nail} \times 1.6} = 3.0 \text{ nails}$$

(nailing does not control)

Page 33, 8 lines from page bottom . . .

$$\text{Number of 10d common nails required} = \frac{3800 \text{ lb}}{119 \text{ lb/nail}(1.2)(1.6)} = 16.6 \text{ nails}$$

where  $C_D = 1.6$  for duration of load

Page 48, under Seismic and site data, first 2 lines now read . . .

$$S_s = 1.78g$$

$$S_1 = 0.55g$$

Page 101, under Seismic and site data, first 2 lines now read . . .

$$S_s = 1.78g$$

$$S_1 = 0.55g$$

Page 142, middle of page, under #9, text now reads . . .

$$\text{Allowable load per nail is } ZC_D = 116(1.6) = 185 \text{ lb/nail}$$

$$\text{Number of nails required} = 1374/185 = 7.4 \quad \therefore \text{ use 8}$$

With nails at 1.5 inches o/c the length of strap required is

$$2(0.75 \text{ in} + 8 \times 1.5 \text{ in}) + 6 \text{ in} = 31.5 \text{ in}$$

$\therefore$  use 32-inch-strap

Page 143, bottom of page now reads . . .

$$ZC_D = 141(1.6) = 225 \text{ lb}$$

With 2 rows of 16d nails, the number of nails per row is  $3088 \text{ lb}/2 \times 225 = 6.8$  nails

$\therefore$  use 7 nails

Maximum spacing =  $48 \text{ in}/(7 + 1) = 6 \text{ in}$

$\therefore$  Use 6-inch o/c for the flat nailing

Page 144, under . . . For Douglas Fir-Larch No. 1

$$F'_V = F_V C_D = 180 \times 1.6 = 288 \text{ psi} \dots o.k.$$

Page 145, top of page . . .

$$F'_b = F_b C_D C_F = 1000(1.6)(1.3) = 2080 \text{ psi} \dots o.k.$$

mid page . . .

$$F'_V = F_V C_H C_D = 180(2.0)(1.6) = 576 \text{ psi} \dots o.k.$$

bottom of page

$$\text{Required spacing} = \frac{Z_{11} C_D}{v} = \frac{(1400)(1.6)}{690(0.7)} = 4.6 = 55 \text{ in}$$

Page 146, top of page . . .

$\therefore$  Use  $3/4$ -in-diameter bolts at 48 inches o/c

Page 166, under Seismic and site data, first 2 lines now read . . .

$$S_s = 1.78g$$

$$S_1 = 0.55g$$