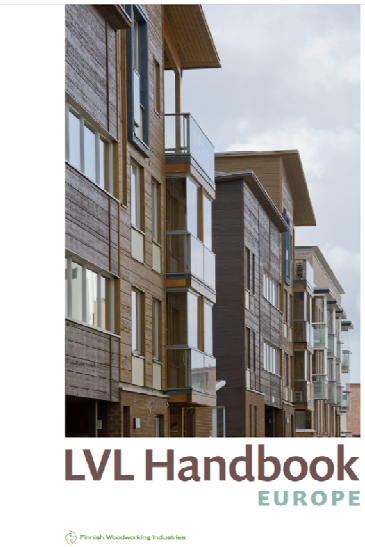


LVL Handbook Europe

Corrections for 1st edition

Page 40, clause 1.8:

”The beam heights given in Table 1.7, however, ensure efficient use of material.”

Page 41, Table 1.9., last row:

“Maximum deviation α of the right angles of the cross section, see Figure 1.61”

Page 47, Figure 1.65.: Number of the last photo: 7

Page 76, Figure 2.42., 2nd sentence of the caption:

“Span length parallel to grain of surface veneer…“

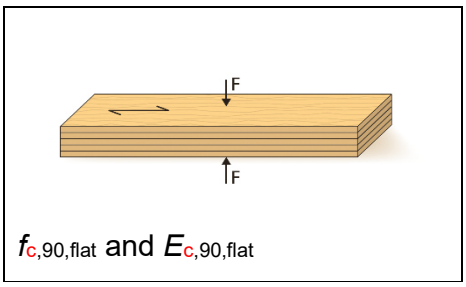
Page 77, Figure 2.44.: 2nd sentence of the caption:

“~~Left: Span length parallel to grain of surface veneers Right: Span length perpendicular to grain of surface veneer.~~” → “Span length perpendicular to grain of surface veneers.”

Page 112: Figure 4.1.

Page 116, clause 4.2, 2nd sentence: …AVCP system 1…

Page 117, Table 4.4., 4th row left:



$f_{c,90,flat}$ and $E_{c,90,flat}$

Page 120, clause 4.3.1:

$\sigma_{m,y,d}$ and $\sigma_{m,z,d}$ are the design bending stresses about the principal axes as shown in Figure 4.3

Page 121, clause 4.3.2:

1st sentence: "… see Figure 4.5 (c and f)..."

4th sentence: "At supports, the contribution to the total shear force of a concentrated load *F* acting on the top side of the beam and within a distance *h* or h_{ef} from the edge of the support may be disregarded, see Figure 4.6."

Page 124, clause 4.3.6, 5th sentence:

"The contact length and width may be increased according to the Table 4.7, but not more than a, ℓ or $\ell_1/2$, see Figure 4.12"

Page 126, clause 4.3.7:

1st sentence: "The bending stresses at an angle α to grain should satisfy the following expression[32]:"

2nd sentence: "In Figure 4.16, the edgewise bending strength values of LVL 48 P and LVL 36 C at different angles are shown as graphics with this assumption."

Page 126, clause 4.3.7:

1st sentence: "The bending stresses at an angle α to grain should satisfy the following expression[32]:"

2nd sentence: "In Figure 4.17, graphically illustrates tensile strength values of LVL 48 P and LVL 36 C at different angles."

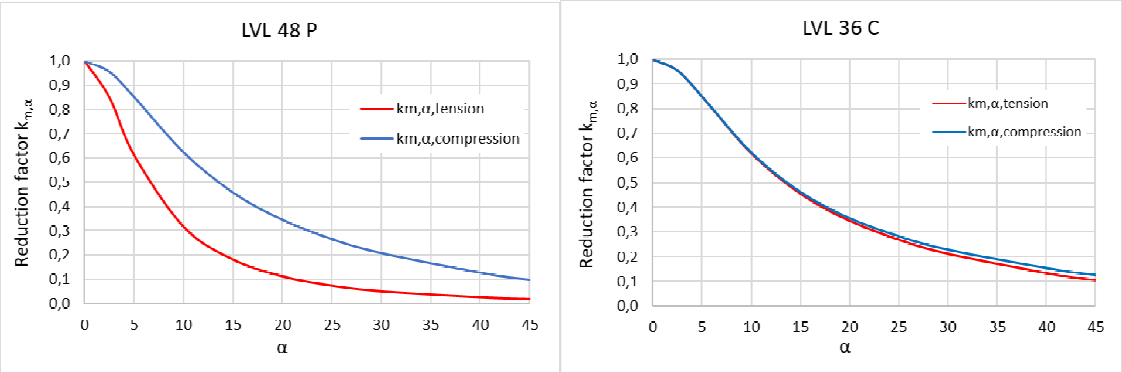
Page 130, clause 4.3.9.3, Equation (4.44): k_1 = 0,12 for square cross sections

Page 131, clause 4.3.10:

2nd sentence: "For beams with rectangular cross sections and where the grain runs essentially parallel to the length of the member, the shear stresses at the notched support should be calculated using the effective (reduced) depth h_{ef}, see Figure 4.20 b)."

2nd bullet point: "− For beams notched on the same side as the support, see Figure 4.20 a)"

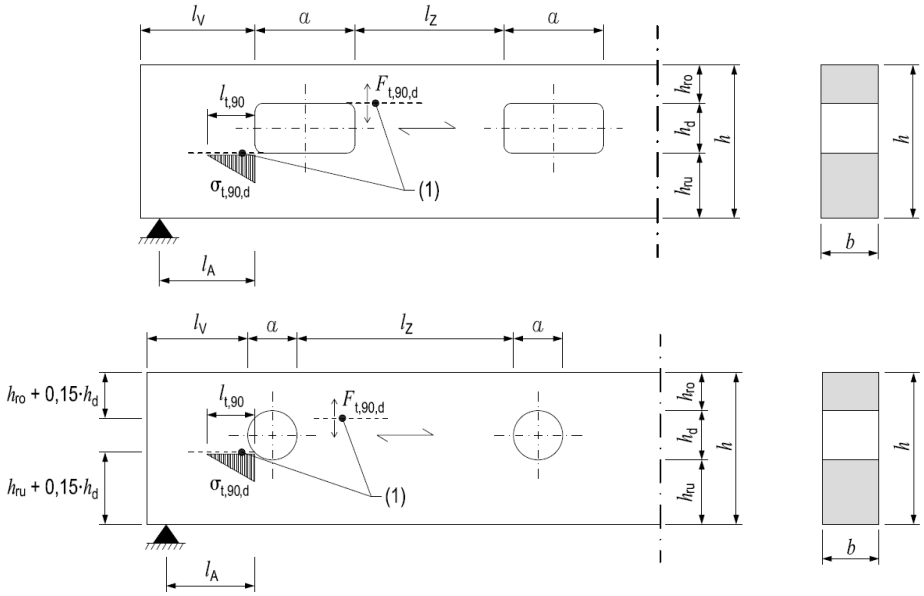
Page 132, clause 4.4.11, corrected graphics in Figure 4.22.



Page 133, clause 4.3.11:

3rd sentence: "Figure 4.22 shows the $k_{m,\alpha}$ factors as a function of the angle *α"*

Page 135, clause 4.3.12, corrected Figure 4.26.:



Page 149, clause 5.3.1:

1st sentence: "When a force in a connection acts at an angle to grain (see Figure 5.9) the possibility of splitting caused by the tension force component, $F_{Ed} \cdot \sin \alpha$, perpendicular to grain, shall be taken into account."

2nd equation:

$$F_{v,Ed} \leq \max \begin{cases} F_{v,Ed,1} \\ F_{v,Ed,2} \end{cases} \qquad (5.2)\ (EC5\ 8.3)$$

Page 153, clause 5.4, additional sentence to the end of the page:

In the edge face of LVL-C and GLVL-C the minimum nail diameter d is 3mm.

Page 176, 8.2.3, Example

10 000 mm → 10 000 mm + (25 °C · 4.0 · 10^6/°C · 10 000 mm) = 10 001 mm