④ K33

K_{33} = Apply for curved glued laminated beam

= 1.0 for straight section

(Clause 3.5.3.2)

2) Shear criteria:

$$\tau_{a,||} \leq \tau_{adm,||}$$

where, $\tau_{a,||}$ = max^m applied shear stress

$= \frac{1.5V}{A}$ ← V: max^m applied shear force; A: cross sectional area

$\tau_{adm,||}$ = Permissible shear stress

$= \tau_{g,||} * K_2 * K_3 * K_5 * K_8 * K_{19}$

$\tau_{g,||}$ = grade stress (for shear) parallel to grain (From table 8)

K_5 = factor for shear at notched ends (for shear stress) (Clause 2.10.4) (Equations given)

K_{19} = factor for shear parallel to grain (table 24)

3) Bearing criteria:

$$\sigma_{c,a,\perp} \leq \sigma_{c,adm,\perp}$$

$\sigma_{c,a,\perp}$ = Actual bearing stress = $\frac{P}{A_b}$ ← P: Applied concentrated load; A_b: Bearing area (Contact surface area over the bearing)