

POS. 146: DIN E12.3 TAB 12/2

general statements

results acc. to DIN EN 1995:2010, Deutschland, $\gamma_1 = 1.30$, $\gamma_2 = 1.30$
single shear plane connection, simplified verification acc. to NA.8.2.4
 $F_{v,Rd}$ calculated with the simplified verification acc. to NA.8.2.4
duration of load: medium-term

outer timber member 1

service class 1, solid coniferous timber, C24 (S10), $\rho_k = 350 \text{ kg/m}^3$, $t = 200.0 \text{ mm}$, $k_{mod} = 0.80$

outer timber member 2

service class 1, solid coniferous timber, C24 (S10), $\rho_k = 350 \text{ kg/m}^3$, $t = 200.0 \text{ mm}$, $k_{mod} = 0.80$

fastener

dowel S235 (1052), d variable

$F_{v,Rd}$ [kN]

$\Sigma\alpha/\emptyset$ °/mm	10	12	16	20	24	30
0°	3.428	4.706	7.717	11.253	15.228	21.839
15°	3.413	4.685	7.678	11.191	15.137	21.692
30°	3.372	4.624	7.568	11.016	14.879	21.276
45°	3.309	4.533	7.403	10.753	14.493	20.662
60°	3.232	4.422	7.204	10.437	14.034	19.936
75°	3.148	4.302	6.990	10.102	13.550	19.180
90°	3.066	4.184	6.781	9.776	13.082	18.457
105°	2.989	4.075	6.589	9.480	12.660	17.811
120°	2.923	3.981	6.425	9.226	12.301	17.265
135°	2.870	3.905	6.293	9.025	12.016	16.835
150°	2.830	3.849	6.197	8.878	11.811	16.526
165°	2.807	3.816	6.139	8.790	11.687	16.340
180°	2.799	3.804	6.120	8.760	11.645	16.278

all values per shear plane