

# EGGER OSB 4 TOP

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**Preliminary design table for OSB 4 TOP used under roofing felt or steel sheets  
(long panel edges tongue and groove / short edges supported)**

|         | Roof slope | Snow load on the ground $s_k$ [kN/m <sup>2</sup> ] |     |     |     |     |      |      |      |      |      |  |
|---------|------------|--|-----|-----|-----|-----|------|------|------|------|------|--|
|         |            | 0,5  | 1,0 | 1,5 | 2,0 | 2,5 | 3,0  | 3,5  | 4,0  | 5,0  | 6,0  |  |
| 600 mm  | 0°         | 12   | 12  | 15  | 15  | 15  | 18   | 18   | 18   | 18   | 22   |  |
|         | 15°        | 12   | 12  | 15  | 15  | 15  | 18   | 18   | 18   | 18   | 22   |  |
|         | 30°        | 12   | 12  | 15  | 15  | 15  | 18   | 18   | 18   | 18   | 22   |  |
|         | 45°        | 12   | 12  | 12  | 12  | 12  | 15   | 15   | 15   | 15   | 18   |  |
| 800 mm  | 0°         | 15   | 15  | 18  | 18  | 22  | 22   | 22   | 25   | 25   | 30   |  |
|         | 15°        | 15   | 15  | 18  | 18  | 22  | 22   | 22   | 25   | 25   | 30   |  |
|         | 30°        | 15   | 15  | 18  | 18  | 22  | 22   | 22   | 25   | 25   | 25   |  |
|         | 45°        | 12   | 15  | 15  | 15  | 18  | 18   | 18   | 22   | 22   | 25   |  |
| 900mm   | 0°         | 15   | 18  | 22  | 22  | 25  | 25   | 25   | 30   | 30   | 30   |  |
|         | 15°        | 15   | 18  | 22  | 22  | 25  | 25   | 25   | 30   | 30   | 30   |  |
|         | 30°        | 15   | 18  | 18  | 22  | 22  | 25   | 25   | 25   | 30   | 30   |  |
|         | 45°        | 15   | 18  | 18  | 22  | 22  | 22   | 25   | 25   | 25   | 30   |  |
| 1200 mm | 0°         | 22   | 25  | 25  | 30  | 30  | (32) | (34) | (35) | (38) | (40) |  |
|         | 15°        | 22   | 25  | 25  | 30  | 30  | (32) | (34) | (35) | (38) | (40) |  |
|         | 30°        | 22   | 25  | 25  | 30  | 30  | (32) | (34) | (35) | (38) | (40) |  |
|         | 45°        | 18   | 22  | 22  | 25  | 25  | 25   | 30   | 30   | 30   | (38) |  |

Design calculations according to Eurocode (EN 1990, EN 1991-1-3, EN 1995-1-1)  $C_e = 1,0$ ;  $C_t = 1,0$ ;  $\mu_1 = 0,8$  except 0,4 for 45° roof slope; **permanent load 0,3 kN/m<sup>2</sup>** includes the weight of the panel, service class 2, medium term load duration class;  $k_{mod} = 0,7$ ,  $k_{def} = 2,25$ ; consequences/reliability class 2  $K_{fl} = 1,0$ ,  $\gamma_M = 1,2$ ;  $\gamma_G = 1,35$ ;  $\gamma_Q = 1,5$ ;  $\psi_2 = 0,2$ ; combination of action (6.10); characteristic combination, multispans panels, net final deflection  $w_{net,fin} \leq L/150$ , for small snow loads the 1 kN imposed concentrated load (category H) is the most critical case; does not replace project specific structural design.