

## ANNEX 1 PRODUCT DETAILS

Figure 1 Section

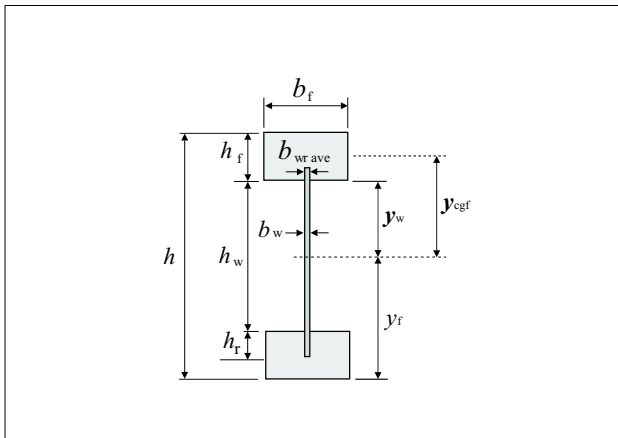


Table 1 Dimensions

Designation	Depth nominal (mm)	Flange depth x width (mm)
JJI 145 A	145	45 x 45
JJI 195 A	195	45 x 45
JJI 195 B	195	45 x 60
JJI 195 C	195	45 x 72
JJI 195 D	195	45 x 97
JJI 220 A	220	45 x 45
JJI 220 B	220	45 x 60
JJI 220 C	220	45 x 72
JJI 220 D	220	45 x 97
JJI 235 A	235	45 x 45
JJI 235 B	235	45 x 60
JJI 235 C	235	45 x 72
JJI 235 D	235	45 x 97
JJI 245 A	245	45 x 45
JJI 245 B	245	45 x 60
JJI 245 C	245	45 x 72
JJI 245 D	245	45 x 97
JJI 300 A	300	45 x 45
JJI 300 B	300	45 x 60
JJI 300 C	300	45 x 72
JJI 300 D	300	45 x 97
JJI 350 C	350	45 x 72
JJI 350 D	350	45 x 97
JJI 400 C	400	45 x 72
JJI 400 D	400	45 x 97
JJI 450 D	450	45 x 97

Table 2 Tolerances

Member dimension	Tolerance (mm)
Joist length	± 3
Joist depth	± 2
Flange depth	± 2
Flange width	± 2
Web thickness	± 0.8

Table 3 Flange — Material properties of C24 solid timber

Property	Value
Characteristic tension strength parallel to grain at 3 m length ( $f_{t,0,k}$ ) (Nmm <sup>-2</sup> )	14
Characteristic flat wise bending strength ( $f_{m,k}$ ) (Nmm <sup>-2</sup> )	24
Characteristic compression strength parallel to grain ( $f_{c,0,k}$ ) (Nmm <sup>-2</sup> )	21
MOE <sup>(1)</sup> — characteristic value $E_{0,05}$ (Nmm <sup>-2</sup> )	7400
MOE <sup>(1)</sup> — characteristic $E_{mean}$ (Nmm <sup>-2</sup> )	11000
Density — mean (kgm <sup>-3</sup> )	420
Characteristic compression strength perpendicular to grain ( $f_{c,90,k}$ ) (Nmm <sup>-2</sup> )	2.5

(1) Modulus of elasticity.

Table 4 Web — Material properties of OSB/3<sup>(1)</sup>

Property	Value (Nmm <sup>-2</sup> )
Mean MOE <sup>(2)</sup> in tension ( $E_{t,90,mean}$ )	3000
Mean MOE <sup>(2)</sup> in tension ( $E_{t,0,mean}$ )	3800
Mean MOE <sup>(2)</sup> in compression ( $E_{c,90,mean}$ )	3000
Mean MOE <sup>(2)</sup> in compression ( $E_{c,0,mean}$ )	3800
Mean panel shear modulus ( $G_{v,mean}$ )	1080
Characteristic panel shear strength ( $f_{v,k}$ )	6.8
Characteristic tension strength ( $f_{t,0,k}$ )	9.9
Characteristic compression strength ( $f_{c,0,k}$ )	15.9
Characteristic compression strength ( $f_{c,90,k}$ )	12.9

(1) OSB board to comply with BS EN 12369-1 : 2001, or better.

(2) Modulus of elasticity.