



(BS) EN 12369-2: 2001

Wood-based Panels - Characteristic Value for Structural Design - Plywood

This provides information on the characteristic values for designing structures incorporating plywood. These characteristic values given are for use in accordance with Eurocode 5.

The characteristic values tabulated in EN 12369-2:2011 (Table 2) for strength, tension and compression are based on the bending strength class limits appearing in Table 1 of EN 636:2003. It is important to point out that the inclusion of the new class F35 shown in Table 1 of the updated EN 636:2012 will not be included in Table 2 of EN 12369-2:2011 until its five-year review in 2016.

This means that the current Table 2 of EN 12369-2 :2011 does not reflect the changes in Table 1 of EN 636:2012.

It is the same for the characteristic values tabulated in Table 3 of EN 12369-2:2011. These values for strength, tension and compression are based on the bending modulus classes and lower limit values appearing in Table 2 of EN 636:2003. The inclusion of the new class E35 and all changes to the bending modulus lower limit values in Table 2 of the revision to EN 636 dated 2012 will not be reflected in Table 3 of EN 12369-2 until its 5 yearly review in 2016.

This means that the current Table 3 of EN 12369-2:2011 does not reflect the changes in Table 2 of EN 636:2012.

The panel shear modulus, strength in panel shear and planar shear are all related to the density of the wood species used. In the case of single species panels the density is determined according to EN 323 and expressed as $\rho_{p,mean}$. For panels combining more than one species, the density shall be determined by the species with the lowest density in the composition. The property value shall be taken from the bottom of the range of density the wood species belong to and is expressed as $\rho_{w,mean}$.