

Timber (Material)	Density (kg/m <sup>2</sup> )	Suitable Externally	Maximum Fire Rating <b>FLUSH DOORSETS</b> (Frames)	Maximum Fire Rating <b>JOINERY DOORSETS</b> (Doors & Frames)
Accoya	510	YES	NON FIRE RATED	NON FIRE RATED
Ash, American	670*	NO	FD60	FD60
Ash, European	710*	NO	FD60	FD60
Beech, European	720	NO	FD30	FD30
Cherry, American	580	NO	FD30	FD60
Chestnut, Sweet	560	NO	FD30	FD60
Douglas Fir (sw)	500	NO	FD30	FD30
Idigbo	560*	YES	FD30	FD60
Iroko	660	YES	NON FIRE RATED	NON FIRE RATED
Koto	560	NO	FD30	FD30
Maple (Rock)	740	NO	FD60	FD60
Meranti	710*	YES	FD60	FD60
Oak, American White	770	NO	FD60	FD60
Oak, American Red	790	NO	FD60	FD60
Oak, European	720*	YES	FD60	FD60
Sapele	640	YES	FD60	FD60
Tulipwood	510	NO	FD30	FD30
Utile	660	YES	FD60	FD60
Walnut, African	560	YES	FD30	FD60
Walnut, American Black	660	YES	FD60	FD60
Redwood, European (sw)	510	NO	FD30	FD30
Whitewood, European (sw)	470	NO	FD30	FD30
MDF	680 - 800	NO	FD60	FD60
Walnut, French	670	NO	FD60	FD60

**Notes:**

\* This indicates that the density can vary more than 20%.

Density can vary due to its moisture content.

For FD30 and FD60 (joinery doorsets) the density should not be less than 510kg/m<sup>2</sup>.

For FD60 the Glazing Beads should be manufactured with a density not less than 640kg/m<sup>2</sup>.

Recommended moisture contents are:

10% + or - 2% for Internal Doors / Doorsets.

16% + or - 3% for External Doors / Doorsets.