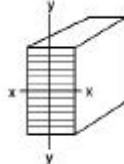


Structural Glued Laminated Timber

FLOOR BEAMS

FLOOR LIVE LOAD

F_{bx}	F_{vx}	E_x	C_D	Deflection limit
1600 psi	190 psi	1.4 million	1.00	Span / 480



Simple Span Beams

For Preliminary Design Purposes

Lamination thickness: 1-1/2 in.

FLOOR LOAD FACTOR = 0.80

TABLE SPECIFICATIONS: This table applies to straight, simply supported glued laminated timber beams under dry conditions of use.

Beams must be laterally supported at the top along the length of the beam and at the top and bottom at the ends.

The load carrying capacities tabulated are for total load including the weight of the member.

BEAM WEIGHT: 50.0 pounds per cubic foot was used to determine beam weight per lineal foot shown in the table.

DESIGN VALUE MODIFICATIONS: The allowable stress in bending, F_{bx} , has been adjusted by the AITC volume factor, C_v .

For determination of load carrying capacities governed by shear, loads within a distance "d" (the depth of the beam) from the ends have been neglected.

DEFLECTION LIMITS: For floor beams, deflection is limited to span/360 for live load.

CONTROLLING VALUES: Values marked with a D are controlled by deflection, B are bending controlled, and S are shear controlled.

SPANNING MEMBERS: Values marked with a D are controlled by deflection, D are bending controlled, and C are

* The values have been limited to reasonable capacities. Engineering calculations may allow for greater capacities.

While these capacity tables have been prepared in accordance with recognized engineering principles and are based on the most accurate

and reliable technical data available, these tables should not be used or relied upon for any general or specific application without competent

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TABLE 16F-E10 Full Width Headers

WRONG SPECIES

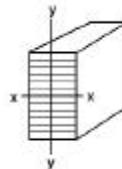
THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION

Structural Glued Laminated Timber

FLOOR BEAMS

FLOOR LIVE LOAD

F_{bx} **F_{vx}** **E_x** **C_D** Deflection limit
1600 **190** **1.4** **1.00** **Span / 480**
psi **psi** **million**



Simple Span Beams

For Preliminary Design Purposes

Lamination thickness: 1-1/2 in.

FLOOR LOAD FACTOR = 0.80

TABLE SPECIFICATIONS: This table applies to straight, simply supported glued laminated timber beams under dry conditions of use.

Beams must be laterally supported at the top along the length of the beam and at the top and bottom at the ends.

The load carrying capacities tabulated are for total load including the weight of the member.

BEAM WEIGHT: 50.0 pounds per cubic foot was used to determine beam weight per lineal foot shown in the table.

DESIGN VALUE MODIFICATIONS: The allowable stress in bending, F_{bv} , has been adjusted by the AITC volume factor, C_v .

For determination of load carrying capacities governed by shear, loads within a distance " a " (the depth of the beam) from the ends have been neglected.

DEFLECTION LIMITS: For floor beams, deflection is limited to span/360 for live load.

DEFLECTION LIMITS: For floor beams, deflection is limited to span/360 for live load.

CONTROLLING VALUES: Values marked with a D are controlled by deflection, B are bending controlled, and S are shear controlled.

SPAN: Span is defined as the length from centerline to centerline of bearing. This span is the length used in standard engineering equations to calculate deflection, bending and shear.

* The values have been limited to reasonable capacities. Engineering calculations may allow for greater capacities.

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