

Strength of home-grown timber pit-props.

-- Steel vs timber framing — the pros and cons



Description: -

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Why was the WTC needed?

It is considerably weaker in compression perpendicular to the grain. Commercially available species like Tasmanian oak, Australian cypress, spotted gum and the like, often make the more practical choice, with the added benefit that they can be easily matched with other timber products within the building, like flooring.

Glennon Brothers

Circuit breakers are required to prevent against this potentially lethal hazard. The table below provides laboratory values for several properties of wood that are associated with wood strength.

Strength properties of wood

There is a wide variety of species to select flooring from and the right species for a given application will be dependent on numerous factors. With increasing roof pressure the tapered end burrs and provides yielding. The relief valve is a capsule permitting adjustment and testing prior to insertion in the prop and it is set to the correct yielding pressure before the prop is assembled in the factory.

Timber Grading and Grade Stresses

Within the elastic range below the proportional limit, this ratio is a constant for a given piece of wood, making it useful in static bending tests for determining the relative stiffness of a board.

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