

UNIQUE TECHNOLOGY

TECBEAM™ is designed and manufactured in Australia by licensed fabricators and holds worldwide patents for its technology and is exclusively produced and distributed by Tilling Timber.

The TECBEAM® 'I' Beam/Joist, is an innovative light weight steel and timber composite structural beam unique in this era of engineered timber products.

This composite beam, or joist, comprises a continuous light gauge galvanized steel web, with press formed stiffening ribs and uniformly spaced service holes.

It is married to structural timber flanges of plantation grown softwood or SmartLVL15, fixed by close centre nailing to each side of the continuous steel web.

TECBEAM® joists demonstrate many superior performance characteristics when compared with other commonly used joists.

They have been extensively tested and proven as a structural beam for use in all types of floor and roof construction in over a decade of supplying the competitive Victorian residential and commercial construction markets.

Structural floor and roof framing systems have been developed utilizing these unique properties of TECBEAM® joists.

Significant savings in the total cost of construction can be made when TECBEAM® joists are specified.

A TECBEAM® designed floor can often replace structural steel beams and this decision can amount to significant savings in time and cost.

Ceiling plasterboard and flooring materials can be fixed directly to the joist flanges, and most services can be installed through the web holes, including air conditioning ducts and large waste pipes, eliminating the need for tradesmen to cut holes in the beam web.

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TECSLAB™ is the affordable premium lightweight timber framed floor system that feels like a concrete floor and is designed for low, medium and high-density construction.

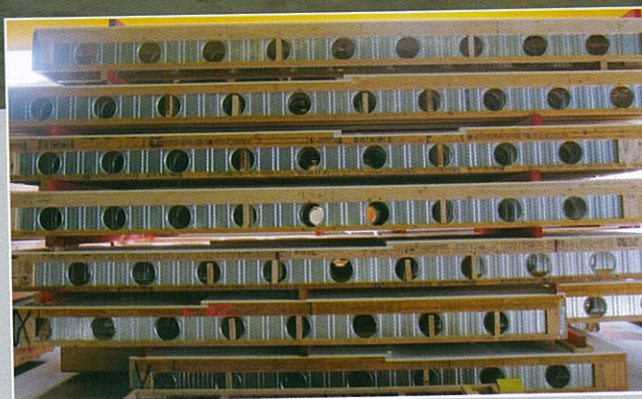
The TECSLAB™ system combines the properties of two exceptional construction

products - TECBEAM™ and Hebel® PowerFloor™.

This combination provides a superior floor solution achieving quicker build times and significant cost savings.

and eliminates squeaking that is often a problem with other joist systems and particle board flooring.

TECSLAB™ boasts superior thermal performance (particularly for suspended



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Hebel® is a lightweight steel-reinforced Autoclaved Aerated Concrete (AAC) that has been used in Europe for over 70 years and here in Australia for over 20 years.

TECBEAM™ is a composite structural 'I'-Beam which has a continuous galvanized steel web and timber flanges resulting in a lightweight beam with structural properties closely resembling those of a steel beam rather than a solid beam.

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TECSLAB™ can be easily installed by on-site carpenters and is unaffected by wet or changing weather during installation.

Unlike wet-pour concrete, TECSLAB™ is installed without the need for curing or propping. Supremely comfortable, solid and low noise emission.

The TECSLAB™ system reduces foot-fall, airborne noise between floors

and assists in achieving thermal ratings that reduce heating and cooling costs.

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CASSETTE SYSTEMS

Tilling TecBeam I-Joists are currently being used to produce prefabricated floor cassettes for a multi-level residential development in Melbourne.

The floor cassettes have been designed to span approximately 7 meters simply supported with fire and acoustic ratings to satisfy the BCA requirements.

The TecBeam floor cassette system also allows for the installation of services within the cassette depth and the prefabricated nature of the system is expected to significantly reduce the onsite construction times with an installation rate of 800m² per working day.

For further information contact your local Tilling representative.

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