

SMARTFRAME®
SMART ENGINEERED SOLUTIONS

5 Tilling
YEARS

TECBEAM



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.

TECBEAM™ is designed and manufactured in Australia and holds worldwide patents for its technology.



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TECSLAB

TECSLAB™ provides a superior floor solution achieving quicker build times and significant cost savings.

Market Applications: Multi-residential apartment buildings class 1, 2, 3, and 9c up to 4 storeys (superior, long spanning floors in buildings built with load bearing timber or steel framed and timber joist structures including transition floors above car parks).

The TECSLAB™ System Benefits:

- 1 Provides concrete floor 'feel' with Hebel® on a lightweight but strong frame.
- 2 Achieves significant reduction in sound transmission between floors from airborne noise and footfall.
- 3 Engineered system stiffness for comfort without the floor 'bounce'
- 4 Extremely low long term deflection factor, minimising floor movement and creep, with less maintenance issues post construction compared to concrete or timber structures.
- 5 The TECBEAM™ joist carries point loads and has high load capacities (up to 10 kPa)
- 6 Supports long spans of up to 7 metres
- 7 Simplifies the design and construction of cantilevered balconies
- 8 Engineered to easily build balcony and wet area set downs
- 9 Provides a Flat floor surface ready for floor covering

CASE A

Complete TECBEAM™ structure of 300mm deep joists @ 450 centres with Hebel® PowerFloor™ over and two layers fire rated plasterboard ceiling on resilient mounts plus insulation and including steel supporting beams – supply and fix.

Reinforced Concrete Slab

200mm post-tensioned concrete slab and post tensioned band beam incl formwork to soffit, 100kg/m2 reinforcement, steel trowel finish and suspended 13mm plasterboard ceiling plus insulation board – installed.

CASE B

Complete TECBEAM™ structure of 250mm deep joists @ 600 centres with Hebel® PowerFloor™ over and 2 layers fire-rated plasterboard ceiling on resilient mounts plus insulation – supply and fix.

Reinforced Concrete Slab

200mm post-tensioned Concrete Slab on Concrete Columns; incl. formwork to soffit, reinforcement, steel trowel finish and suspended 13mm plasterboard ceiling – installed.

Significant Cost Savings

TECSLAB™ vs Conventional Structure Cost Comparison

