



**PRE
FAB IT**

CASSETTE FLOORING

YOUR NEXT STEP IN PREFAB

Building is starting to undergo a mini-revolution...

It began in mid-rise commercial construction when builders aimed to speed up erection time on site. The best way to do this is through pre-fabrication in a factory. When in a controlled environment, quality improves, weather delays decrease and you can stockpile a building ready for fast assembly.

The residential market is now following, and floor systems are an ideal starting point. Flooring cassettes form instant working platforms to give WHS/OHS advantages, speed up construction and increase build quality.

Many projects, both houses and low-rise, will benefit from using floor cassettes. Each situation is different and Meyer Timber® has the expertise to make your project a success. We partner with your preferred Frame and Truss Plant or Timber Merchant for delivery. Stay ahead of the competition – give Meyer Timber® a call to discuss your next step in prefab.

Meyer 
TIMBER®

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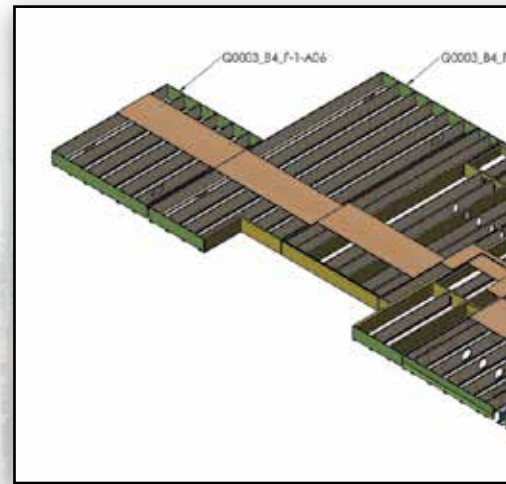
HOW IT WORKS

DESIGN

- Documents provided by the builder are architectural drawings and engineering drawings as for a standard floor system.
- Meyer Timber® completes the cassette floor design in 3D using high-end CAD/CAM software.
- The designer optimises the panel layout for installation speed and ease of transport.
- In addition, holes for AC ducting and/or plumbing can be included.
- Meyer Timber® prepares both manufacturing drawings and overall layouts showing the install sequence for carpenters on site.

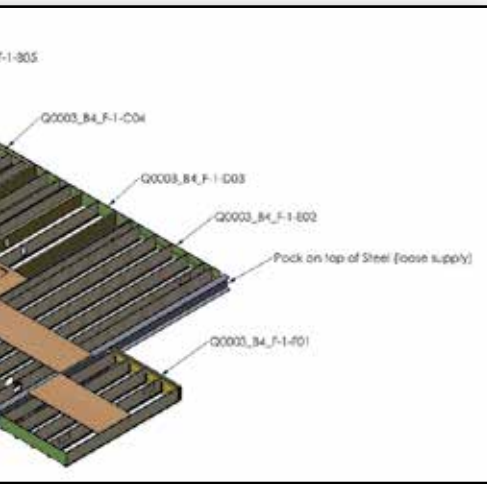
MANUFACTURE

- The design software exports directly to a Hundegger Turbo-drive saw allowing all timber members to be precision cut including service holes.
- The various joists and beams are then locked into position on the Meyer Timber® floor fabrication jig.
- Floor sheets are bonded to the joists using a polyurethane adhesive. This allows the flooring to act as a stressed skin rather than moving independently of the joists and can increase stiffness by up to 40%.
- Fabrication of floors in the factory environment allows for higher levels of speed and precision than is possible on the worksite. Every panel goes through rigorous quality checks.



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QUALITY DESIGN



INSTALLATION

- Panels are lifted into position by crane. Safe lifting points are built into each cassette. The lifting screw/hook combination is an engineered system for peace of mind.
- Panels arrive stacked in a logical order to maximise install speed.
- Depending on space constraints for a particular site, panels can be craned directly from the delivery vehicle or un-loaded to be installed later.
- All materials required to complete the installation are provided; any loose beams, flooring glue and screws for fixing off.
- The floor provides an instant working platform. The first-floor frames can be lifted up straight away to maximise the use of the crane.
- Meyer Timber® provides on-site training and support to carpenter crews.

CONSIDERATIONS

- Repeatability. Cassette floors are more cost effective when there are more identical panels. House or unit designs which are repeated are ideal.
- Ease of Transport. Panels need to fit easily onto a truck. Typical max widths are either 2.4m or 2.7m to fit in with common sheet flooring sizes.
- Number of lifts. Large sites in particular are measured by "crane time" so reducing the number of panels is the most cost-effective solution.
- Overall weight. Small panels that can be man handled are still extremely quick to install and may be necessary on sites with difficult access.
- Components are usually existing materials such as I-Joist, LVL and OSB so optimisation of these may affect the final layout.

PRECISION
SPEED

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BENEFITS

Installation speed. Typical residential floors can be installed in under an hour. The limiting factor is generally how fast the crane can drop them in!

No waste. No more joist and flooring offcuts.

Quality. Manufacture in the controlled factory environment allows for high levels of precision and quality.

Structural benefits. Cassette floors are up to 40% stiffer than conventional floors. Pre-cut service holes preserve the integrity of the joists.

Easier service coordination. Optional holes for AC and/or plumbing make life easier for the trades.

Cost savings. Reduced site costs and overheads. Construction speed means builders get paid earlier.



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