



INTERSPAN RIB

CLIENT INFORMATION

DESCRIPTION

The TiltUp Interspan Flooring System consists of prestressed concrete ribs spaced at 900mm centres with 25mm thick timber formwork placed between them. A minimum 75mm thick-in situ concrete topping is cast over the panel, producing a composite and versatile flooring solution. TiltUp Interspan Ribs are manufactured at a depth that meets the projects specific load/span requirements. The depth of TiltUp Interspan Beams can vary from 125mm to 300mm, depending on design loads. This multi-piece system is tied together with a minimum 75mm in-situ concrete topping and mesh reinforcing, and has the benefit of being suitable for difficult sites where access is a problem or poor foundation conditions dictate the use of a comparatively lightweight floor.

FLEXIBLE

TiltUp Interspan Ribs can be easily adapted to suit various floor plans. Floor openings of up to 700mm between beams can be easily accommodated.

TIMBER INFILLS

Timber infill planks are typically H3 treated sawn timber. The infill plank depth is usually 25mm; although this does vary depending on availability. Timber infills should be dampened prior to placing the concrete topping.

MATERIAL

TiltUp Interspan Ribs are manufactured with 45 MPa. concrete. Topping concrete strength = 25 MPa (as required by NZS 3101:2006)

SOUND TRANSMISSION CLASS (STC)

Reduce noise transmission to STC 55 rating with a 75mm topping and plaster board ceiling

FIRE RESISTANCE RATING

TiltUp Interspan Ribs have a 60-minute fire rating in accordance with NZS3101. The overall fire ratings of the floor system will depend on the concrete topping thickness.

TRANSPORT/HANDLING/ERECTION

TiltUp Interspan Ribs must be handled at the strand lifting eyes and stacked at the two points directly under or beside the lifting eyes. It is recommended that TiltUp Interspan Beams are seated 75mm onto concrete supports or 60mm onto steel beams with bearing strips to ensure an even bearing at the correct level.

QUOTATION AND PRELIMINARY DESIGN

TiltUp will give a free quote and preliminary design. All you need to do is provide your house/building plans. TiltUp will design the Interspan floor system for floor loadings only. Other loads such as roof loads should be transferred directly over support beams; an engineer can help

with this. It is best for an engineer to design cantilever reinforcing, as this can help save time and design costs.

INSTALLATION & ERECTION

TiltUp have a professionally trained and certified erection team - if you would like your quotation to include crane lifting & erection please state this in your enquiry.

QUOTATION ACCEPTANCE

Before TiltUp can start preparing the final design and the shop drawings for the Interspan floor layout you are required to sign a copy of the quote and return it to TiltUp, showing your acceptance of the order. You will then be required to provide a full set of 'for construction' building plans and any design notes from your engineer showing design loads that the floor is to be designed for and time when the Interspan Floor System will be required along with site contact details.

INSTALLATION & CONSTRUCTION

Before placing TiltUp Interspan Ribs.

1. Props must be installed to the required levels. This should be achieved to within $\pm 3\text{mm}$. The propping system (designed by others) must be adequate to carry all construction loads. Props should not be removed until the in situ topping has reached 75% of the specified concrete strength.
2. Placement of topping reinforcing to the engineers' specification.
3. In situ concrete topping should be water or membrane cured for at least 7 days.
4. Drilling holes through or cutting TiltUp Interspan Ribs is not recommended and should only be undertaken with written approval from the TiltUp engineer.
5. For temporary storage of TiltUp Interspan Ribs, you must provide bearers close to the lifting eyes on level ground.

FURTHER TECHNICAL INFORMATION

TiltUp has qualified, experienced staff available to discuss design details with you.

Paul Brewer | General Manager

PH: 07 925 0383 | **M:** 021 403 497 | **E:** paul@tiltup.co.nz

POSTAL ADDRESS: PO Box 174, Tauranga

SITE ADDRESS: 38 Poturi Street, Tauranga

Thomas Razak | Engineering Manager/ Estimator

PH: 07 925 0383 | **M:** 021 403 417 | **E:** thomas@tiltup.co.nz

POSTAL ADDRESS: PO Box 174, Tauranga

SITE ADDRESS: 38 Poturi Street, Tauranga

Reviewed 17 February 2017