



DOUBLE TEE

CLIENT INFORMATION

DESCRIPTION

TiltUp Double Tee flooring units consist of two prestressed beams and a connecting top slab. The depth of the Double Tees can vary from 205mm to 605mm. The top flange is 3000mm wide x 55mm thick. Double Tees are ideally suited for larger spanning floors with a wide variety of services suspended from the flooring system. Double Tees can accommodate large voids/penetrations through the 55mm-flange region. The cast in situ topping is typically 75mm thick but can be varied.

SOUND TRANSMISSION

A major benefit of the Double Tee Floor is its ability to reduce noise transmission. Double Tee Floors are quiet and do not creak with temperature and moisture changes.

MATERIAL

Double Tee concrete strength is 45 MPa. Topping concrete strength of 25 MPa (as required by NZS 3101:2006).

FIRE RESISTANCE RATING

3.00 units wide per 60 minutes. For fire ratings or loads more than the allowable shown, please contact TiltUp.

BEARING CAPACITY

Where high shear loads are combined with support beams or walls of low material strength, a bearing capacity check should be made in accordance with NZS3101 should be made; e.g. masonry bearing walls.

LIFTING

TiltUp use Reid's propriety lifting or strand lifting eyes. Lifting hardware will depend on the unit's design and seating requirements. All seating and lifting hardware will be shown on TiltUp shop drawings. Lift Double Tees only at the lifting points provided. Chains or strops must be of correct length to carry equal loads and comply with NZ standards.

STORAGE

Double Tees if stored on-site must be supported at their ends on firm ground. Bearers between layers in a stack must be directly above each other and units of varying length should not be stacked upon each other. The base should be able to support the combined loads and prevent the bottom bearers from sinking into the ground as this could cause the unit to bear near mid span, resulting in damage.

SEATING

Hanger supported Double Tees must be seated on an approved bearing strip. TiltUp Double Tees are designed as prestressed sections as per NZS3101. For minimum seating requirements refer to NZS3101, cl 18.7.4 as per section 19 of NZS3101:2006

FURTHER TECHNICAL INFORMATION

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

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