DESIGN LOADING: SM1600.

THE MAXIMUM GAP BETWEEN PSC PLANKS: 320mm.

DECK: 180mm.

THE NOMINAL THICKNESS OF CAST-IN-PLACE REINFORCED CONCRETE IS 8mm AT 28 DAYS, ASSUMING:

- CALCULATED HOG OF PLANK AT TRANSFER IS 4mm
- MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 50 MPa.
- ELASTIC MODULUS AT TRANSFER = 32 800 MPa
- DENSITY = 2550 kg/cu m
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- MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 50 MPa.
- MINIMUM COMpressive STRENGTH OF CONCRETE AT TRANSFER OF PRESTRESS SHALL BE 36 MPa.
- NOMINAL COVER TO REINFORCEMENT NEAREST TO THE CONCRETE SURFACE SHALL BE 35mm UNLESS SPECIFIED OTHERWISE.

THE COVER SPECIFIED IS BASED ON THE PLANK BEING CAST IN A RIGID STEELFORMWORK MOULD WITH INTENSE COMPACTION USING A VIBRATING TABLE OR FORM VIBRATORS.

STRANDS SHALL BE 7-WIRE, ORDINARY, DIAMETER 12.7mm, TENSILE STRENGTH 1870 MPa, RELAX 2, TO AS/NZS 4672.1 WITH MINIMUM BREAKING FORCE OF 164 kN.

THE FORCE IN EACH 12.7mm DIA STRAND AT THE MID-SPAN OF THE PLANK IS 8mm AT 28 DAYS, ASSUMING:

- DENSITY = 2550 kg/m³
- ELASTIC MODULUS AT TRANSFER = 32 800 MPa
- STEAM CURING AT 70 °C FOR 8 HOURS AFTER CASTING
- TENSILE STRENGTH 1870 MPa, RELAX 2, TO AS/NZS 4672.1 WITH MINIMUM BREAKING FORCE OF 164 kN.

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