DESIGN LOADING: SM1600.

THE MAXIMUM GAP BETWEEN PSC PLANKS: 320mm.

DECK: 180mm.

THE NOMINAL THICKNESS OF CAST-IN-PLACE REINFORCED CONCRETE: 300mm.

STANDARD BARS SHAPES DIAGRAM

- Dimensions shown on bar shapes diagram are measured from the outside faces of the bars and are in millimetres.
- Bar size is the nominal diameter in millimetres.
- Bars shall be grade 400 to AS 4883.1. The included angle of any bend shall be a right angle.
- All bends shall be fitment bends in accordance with AS 5100.5.13.

GENERAL NOTES

CONCRETE EXPOSURE CLASSIFICATION...

- MINIMUM 28 DAY COMpressive STRENGTH OF CONCRETE SHALL BE 50 MPa.
- MINIMUM compressive STRENGTH OF CONCRETE AT TRANSFER SHALL BE 30 MPa.
- NOMINAL COVER TO REINFORCEMENT NEAREST TO THE CONCRETE SURFACE SHALL BE 25mm UNLESS SPECIFIED OTHERWISE.
- STEAM CURING AT 70 deg C FOR 8 HOURS AFTER CASTING.

THE COVER SPECIFIED IS BASED ON THE PLANK BEING CAST IN A RIGID STEEL FORMWORK MOLD 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 184kN.

THE FORGE IN EACH 12.7mm DIAM STRAND AT THE MID-SPAN OF THE PLANK AND IS 23mm AT 28 DAYS, ASSUMING:
- ELASTIC MODULUS AT TRANSFER = 32 800 MPa.
- DENSITY = 2550 kg/cu m.
- MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 50 MPa.
- CONCRETE EXPOSURE CLASSIFICATION...
- MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 50 MPa.
- CONCRETE EXPOSURE CLASSIFICATION...

STANDARD DRAWING No. B0312

STANDARD DRAWING

ISSUED: MARCH 2017

APPROVED FOR USE: R.RAVINDRA

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