DESIGN ASSUMPTIONS

GENERAL NOTES

SCALE

DESIGN LOADING: SM1600.
THE MAXIMUM GAP BETWEEN PSC PLANKS: 320mm.
DECK: 180mm.

THE N Nominal Thickness of Cast-in-Place Reinforced Concrete is 25mm at 28 days, assuming:
- Calculated hog of plank at transfer is 16mm
- By the application of epoxy resin
- The end of plank and exposed strands sealed against corrosion

AFTER TRANSFER OF PRESTRESS, STRANDS SHALL BE CUT FLUSH WITH THE END OF PLANK AND EXPOSED STRANDS SEALED AGAINST CORROSION BY THE APPLICATION OF EPOXY RESIN.

PLANK TYPE A - FIRST THREE PAIRS OF Q2 BARS ARE NOT REQUIRED AT EACH END OF PLANK
PLANK TYPE B - FIRST THREE PAIRS OF Q2 BARS ARE NOT REQUIRED AT ONE END OF PLANK
PLANK TYPE C - FIRST THREE PAIRS OF Q2 BARS ARE NOT REQUIRED AT EITHER END OF PLANK

NOMINAL COVER TO REINFORCEMENT NEAREST TO THE CONCRETE SURFACE SHALL BE 25mm UNLESS SPECIFIED OTHERWISE.

MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 50 MPa.
MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT TRANSFER SHALL BE 15 MPa

BROOM FINISHING TRANSVERSELY

THE MANUFACTURE OF THE PLANK BY STEELFORMWORK MOLD WITH INTENSE COMPACTION USING A VIBRATING TABLE OR FORM VIBRATORS

THE COVER SPECIFIED IS BASED ON THE PLANK BEING CAST IN A RIGID CEMENT FORMWORK SHEETING.

STANDARD BAR SHAPES DIAGRAM

IMMEDIATELY AFTER THE RELEASE OF THE TENSIONING JACK SHALL THE FORCE IN EACH 12.7mm DIA STRAND AT THE MID-SPAN OF THE PLANK BE 138 kN.

AFTER TRANSFER OF PRESTRESS, STRANDS SHALL BE CUT FLUSH WITH THE END OF PLANK AND EXPOSED STRANDS SEALED AGAINST CORROSION BY THE APPLICATION OF EPOXY RESIN.

CALCULATED HOG OF PLANK AT TRANSFER IS 16mm

WITH AS 5100.5.13.

1 SETS OF Q2 BARS SHEATHERED FOR DISTANCE OF 1000mm AT EACH END

PLANK TYPE C - FIRST THREE PAIRS OF Q2 BARS ARE NOT REQUIRED AT EITHER END OF PLANK

PLANK TYPE C - FIRST THREE PAIRS OF Q2 BARS ARE NOT REQUIRED AT EITHER END OF PLANK

PLANK TYPE B - FIRST THREE PAIRS OF Q2 BARS ARE NOT REQUIRED AT ONE END OF PLANK

PLANK TYPE A - FIRST THREE PAIRS OF Q2 BARS ARE NOT REQUIRED AT EACH END OF PLANK

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

PLANK TYPE B - FIRST THREE PAIRS OF Q2 BARS ARE NOT REQUIRED AT ONE END OF PLANK

PLANK TYPE A - FIRST THREE PAIRS OF Q2 BARS ARE REQUIRED AT EACH END OF PLANK

BY THE APPLICATION OF EPOXY RESIN.

THE END OF PLANK AND EXPOSED STRANDS SEALED AGAINST CORROSION AFTER TRANSFER OF PRESTRESS, STRANDS SHALL BE CUT FLUSH WITH THE END OF PLANK AND EXPOSED STRANDS SEALED AGAINST CORROSION BY THE APPLICATION OF EPOXY RESIN.

CALCULATED HOG OF PLANK AT TRANSFER IS 16mm

WITH AS 5100.5.13.

IMMEDIATELY AFTER THE RELEASE OF THE TENSIONING JACK SHALL THE FORCE IN EACH 12.7mm DIA STRAND AT THE MID-SPAN OF THE PLANK BE 138 kN.

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