STANDARD BAR 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 D500N TO AS/NZS 4671. THE INCLUDED ANGLE OF ANY BEND SHALL BE A RIGHT ANGLE. ALL BENDS SHALL BE FITMENT BENDS IN ACCORDANCE WITH AS 5100.5.13.

ELEVATION
STRANDS AND INTERNAL REINFORCEMENT NOT SHOWN

PLAN
PLANK TYPE A - REQUIRED
PLANK TYPE B - REQUIRED
PLANK TYPE C - REQUIRED

2 SETS OF Q2 11-N12-L-150
LAPPED WITH Q1 BARS

Q3 2-N12-S SPACED AS SHOWN IN SECTION

2 SETS OF Q2 11-N12-L-150
LAPPED WITH Q1 BARS

VIEW 1

SECTION 2
ALL STRANDS SHALL BE STRAIGHT

GENERAL NOTES

CONCRETE EXPOSURE CLASSIFICATION
MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 50 MPa
MINIMUM COMpressive STRENGTH OF CONCRETE AT TRANSFER OF PRESTRESS SHALL BE 30 MPa
NOMINAL COVER TO REINFORCEMENT NEAREST TO THE CONCRETE SURFACE SHALL BE 25mm UNLESS SPECIFIED OTHERWISE.
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 14 WIRE ORDINARY DIAMETER 12.7mm TENSILE STRENGTH=1870 MPa, RELAX 2, TO ASNZS 4751.1 WITH MINIMUM BREAKING FORCE OF 194kN.

THE FORCE IN EACH 12.7mm DIAM STRAND AT THE MID-SPAN OF THE PLANK IMMEDIATELY AFTER THE RELEASE OF THE TENSIONING JACK SHALL BE 184kN.

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 6mm

STRENGTH 1870 MPa, RELAX 2, TO AS/NZS 4672.1 WITH MINIMUM BREAKING STRENGTH 184kN.

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