

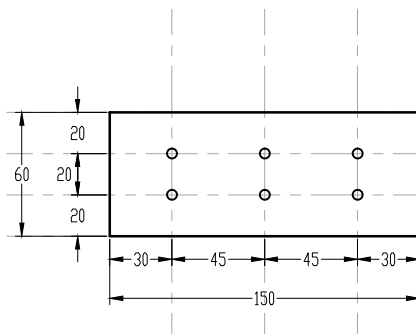
ANNEXURE A

TEL: (031) 502 1999
FAX: (031) 502 2065
GLENEAGLES PARK
3B GROUND FLOOR
10 FLANDERS DRIVE MT EDGEcombe
ROGER@NYATI.CO.ZA

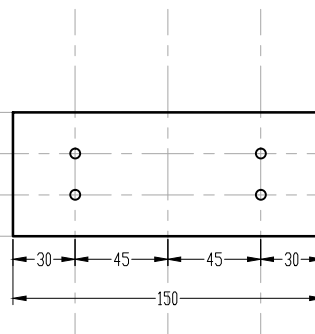


PRE-STRESSED RIB SPECIFICATION AND QUALITY CONTROL

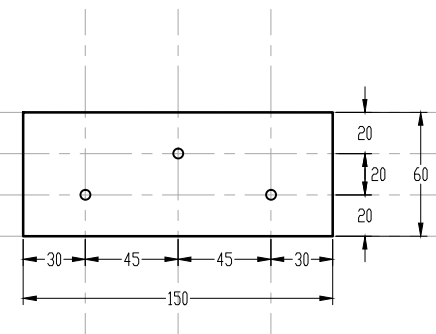
PRE-STRESSED RIB
(6 WIRE)



PRE-STRESSED RIB
(4 WIRE)



PRE-STRESSED RIB
(3 WIRE)



NOTES:

NOMINAL SIZE 150mm WIDE x 58mm HIGH. (SLIGHT TAPER FOR DE-MOULDING)
ULTIMATE CONCRETE STRENGTH AT 28 DAYS 35 MPa. (NORMALLY HIGHER DUE TO EARLY STRENGTH REQUIREMENTS)
CONCRETE STRENGTH AT TRANSFER 18 MPa (STRIPPING OR DE-MOULDING STRENGTH)
CONCRETE TO BE CORRECTLY VIBRATED DURING CASTING TO CORRECT DENSITY OF 2400KG/m³.
STRESSING WIRE 5mm DIAMETER 1900 MPa TRIPLE INDENTED, LOW RELAXATION SCAW METALS SPECS.
STRESSING WIRE TO BE STRESSED TO 50% UTS OR 120mm EXTENSION OVER 30mm.
ALL WIRES TO BE STRESSED INDIVIDUALLY TO ENSURE EQUAL STRESSING LEVELS. (MINIMISES BOWING)
SHEAR CONNECTOR HOOPS 50mm RADIUS AT 600mm CENTERS, MILD STEEL GALVANISED 4mm DIAMETER WIRE.
TOP SURFACE OF CONCRETE ON RIB TO BE ROUGHLY BRUSHED PERPENDICULAR TO SPAN LENGTH. (90 DAYS)

LENGTH TOLERANCE:

RIBS TO BE CAST OR CUT TO WITHIN A MAXIMUM 10mm OF ORDERED LENGTH

ALIGNMENT TOLERANCE:

A LATERAL TOLERANCE OF 10mm MAXIMUM OVER 6m. (PULLING TO THE SIDES, LEFT OR RIGHT)
A POSITIVE VERTICAL TOLERANCE OF 20mm OVER 6m. (BOWING UP IN THE MIDDLE WITH ENDS DOWN)
NO NEGATIVE VERTICAL TOLERANCE CAN BE ACCEPTED. (BOWING DOWN IN THE MIDDLE WITH ENDS UP)