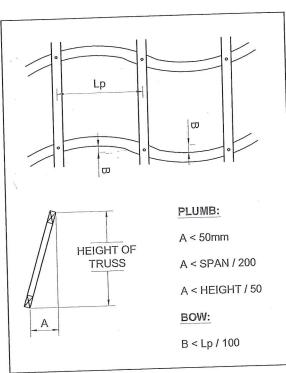
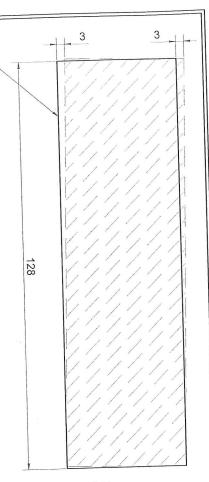
LIFE SIZE (SCALE 1:1) SECTION OF 36x111 RAFTER AT — 30 DEGREE SLOPE SHOWING MAXIMUM OUT OF PLUMB TOLERANCE ALLOWED = LESS THAN 3mm OFF CENTRE.





TOLERANCE IS CRITICAL FOR BOTH A GOOD ROOF LINE AND EFFECTIVE BRACING.

A PLUMB LINE OR LEVEL MUST BE USED.

- TRUSSES TO BE ERECTED WITH OVERALL BOW IN IT'S TOTAL RAFTER LENGTH LESS THAN L / 200 AND LESS THAN 50mm (L = CHORD LENGTH). THE BOW BETWEEN BATTENS OR PURLINS MUST BE LESS THAN Lp / 100 (Lp = BATTEN / PURLIN SPACING).
- TRUSSES TO BE ERECTED WITH APEX NOT MORE THAN THE LESSOR OF SPAN / 200 OR HEIGHT / 50 FROM A VERTICAL PLANE THROUGH IT'S SUPPORTS.
- 3. AT ANY SECTION ,THE LOCAL OUT OF PLUMB SHOULD NOT EXCEED HEIGHT / 50 OR 50mm ,WHICHEVER IS THE LESSOR.

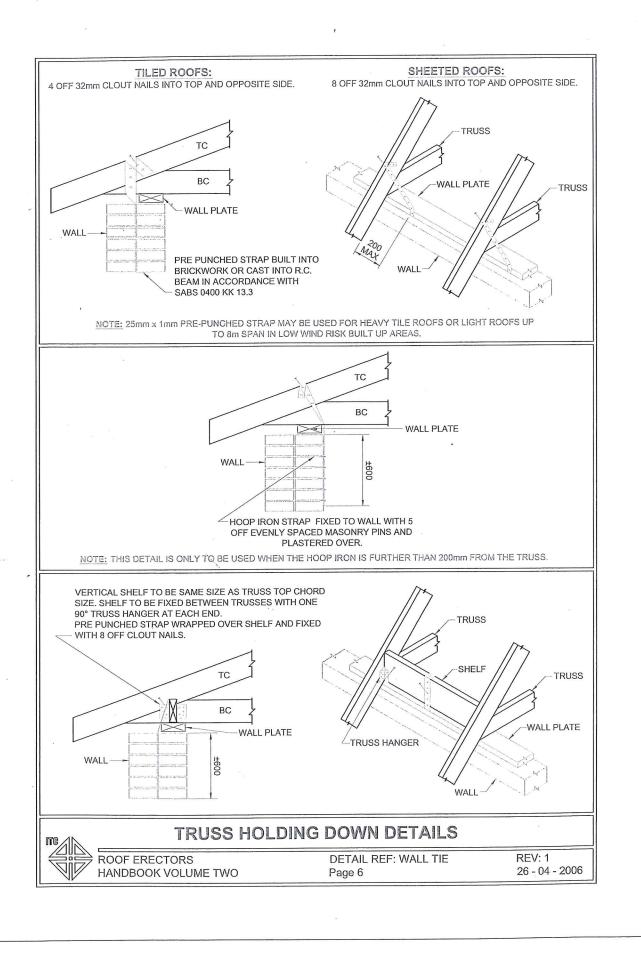
GENERALLY ,IF A BOW OR TILT IS EVIDENT TO THE EYE , THE TRUSS HAS PROBABLY BEEN ERECTED OUTSIDE THE TOLERANCES.

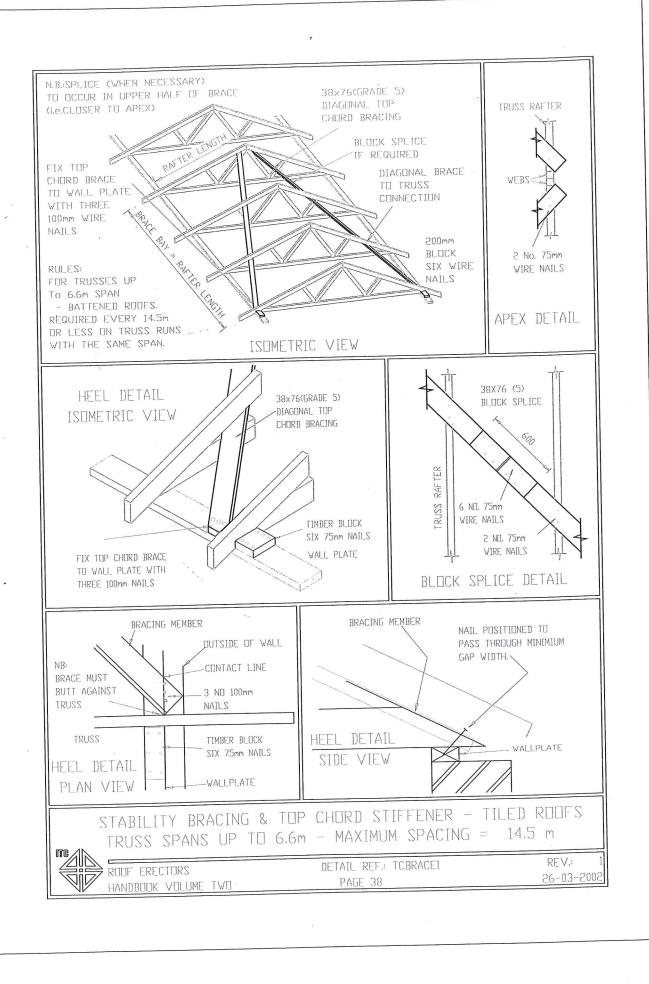
ERECTION TOLERANCES:

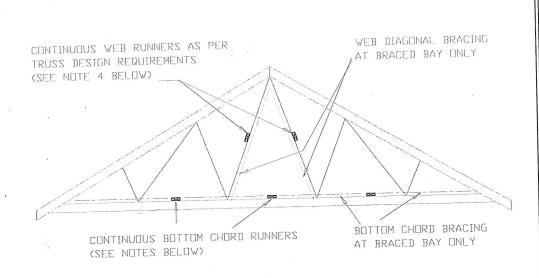
TRUSSES MUST BE ERECTED PLUMB ,LEVEL AND ALL CHORDS MUST BE STRAIGHT.



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RUNNERS/BINDERS ARE ESSENTIAL IN THE FOLLOWING CASES.

RUNNERS ARE ALSO REFERED TO AS BINDERS.

- 1) ON BOTTOM CHORDS OF CANTILEVER TRUSSES OVER CANTILEVER SECTION AND ADJACENT BAY, HERE THE BOTTOM CHORD IS IN COMPRESSION THEREFORE RUNNERS MUST BE AT 1800mm MAX. CENTRES.
- 2) ON BOTTOM CHORDS OF TRUSSES WITH LIGHT-WEIGHT ROOF COVERING BEFORE PERMANENT. CEILINGS ARE INSTALLED DIRECTLY TO UNDERSIDE OF THE BEAM. THE BOTTOM CHORD IS IN TENSION THEREFOR RUNNERS MUST BE AT 2600mm MAX. CENTRES.
- 3) ON BOTTOM CHORDS OF ROOFS WITH SUSPENDED CEILINGS OR WITHOUT CEILINGS.

 THE BOTTOM CHORD IS IN TENSION THEREFOR RUNNERS MUST BE AT 2600mm MAX. CENTRES.
- 4) ON TENSION WEBS LONGER THAN 2600 mm AND COMPRESSION WEBS LONGER THAN 1800 mm U.O.S.

UNLESS OTHERWISE SHOWN :-

- 1) MAXIMUM SPACING OF RUNNERS FOR 38 mm TIE-BEAM = 2600 mm
- 2) MAXIMUM SPACING OF RUNNERS FOR 50 mm TIE-BEAM = 3450 mm

GENERAL RULES FOR BOTTOM CHORD RUNNER/BINDER AND WEB RUNNER/BINDER REQUIREMENTS .



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