

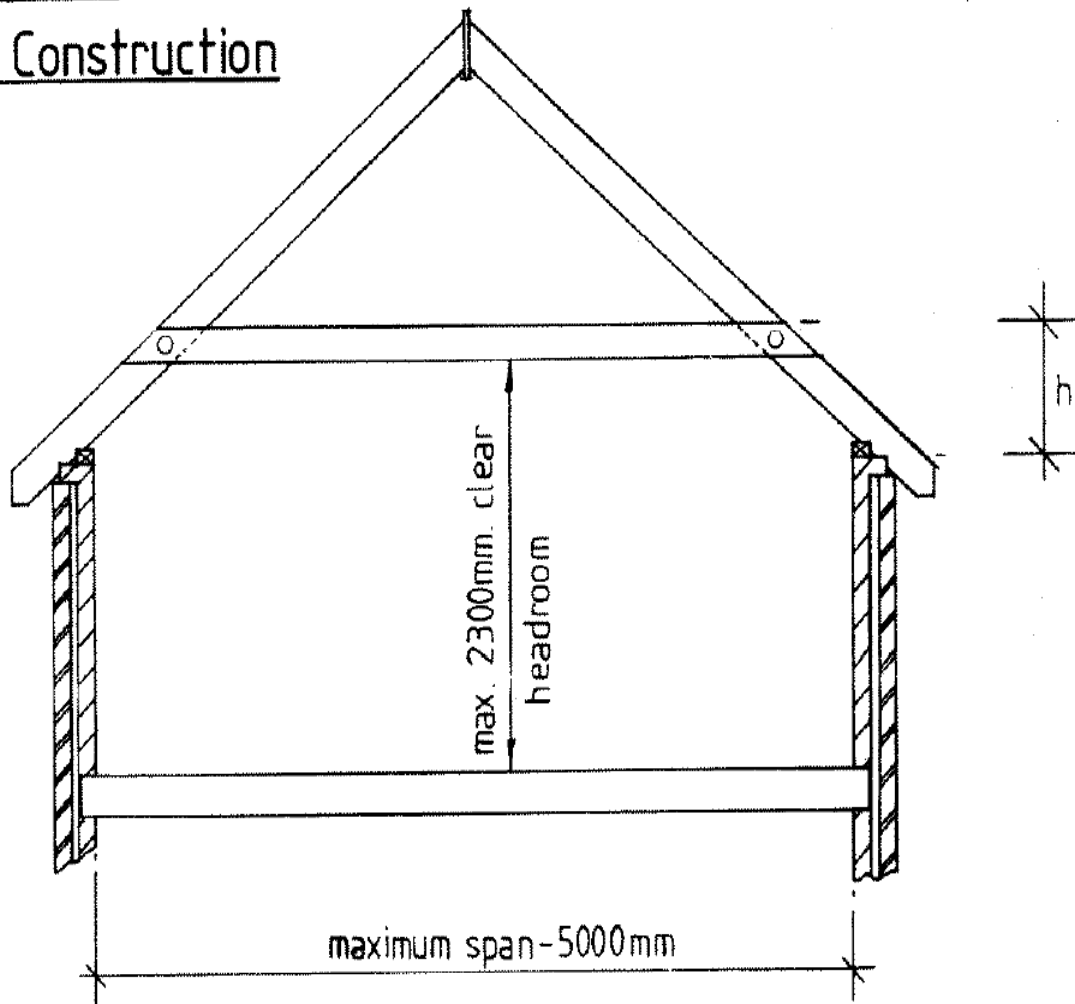


LINCS BUILDING  
CONSULTANCY

## Guidance Note No. 44

Raised Tie Roof  
Construction  
– up to 5m span

# Raised Tie Roof Construction



Rafter Size	Tie Joist	H (max)	Span (max)
50 x 175 or 38 x 200	50 x 175	575	5000
38 x 175	38 x 175	450	5000
38 x 150	38 x 150	325	5000

Collar / Rafter Connection – 38Ø double sided toothed connector and M10, grade 4.6 Bolts.

## NOTES

1. All timber to be graded S C 3.
2. Trusses at maximum 400mm centres.
3. Roof pitch : - minimum 30°, maximum 55°.
4. Tile weight : - maximum 61kg/sq.m
5. Roof bracing requirements to be in accordance with B.S. 5268 : Part 3 : 1998.
6. Cavity Wall Construction:- 100mm inner leaf blockwork, min 3.5N/mm<sup>2</sup>. 102.5mm outer leaf brickwork.

Sources of information:-  
Hutter Jennings and Titchmarsh,  
Consulting Structural and Civil Engineers

Dimensions in millimetres



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