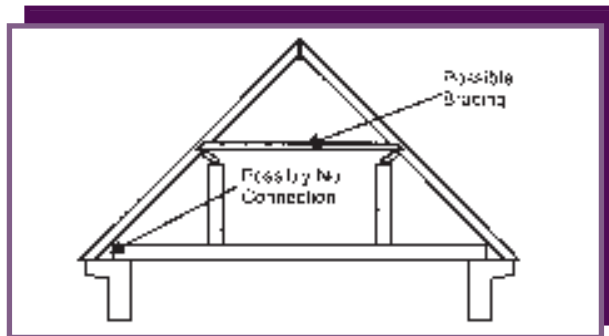


Design check assumes horizontal force component will be taken out through fixings between sloping rafters and horizontal ceiling. If sufficient tie force cannot be guaranteed at ceiling level provide horizontal bracing (see detail below).



For any informal advice on the re-covering of existing roofs, the Building Control Section would be pleased to assist you.

Please ring Stockton (01642) 526046 and ask for a Building Control Surveyor.

TRANSLATION INFORMATION

This document is available in other formats and languages for further information please contact the Diversity Team on 01642 528334

Si vous souhaitez obtenir ces informations dans d'autres langues ou sous un autre format, par exemple, en gros caractères / version audio, veuillez contacter l'équipe 'Diversity' au n° 016 42 52 83 34

اذا كنت ترغب بالحصول على هذه المعلومات بلغة أو بأشكال أخرى على شكل نص كبير الحجم أو بصيغة صوتية، فيرجى الاتصال بالفريق 'Diversity' على رقم الهاتف 01642 528334

For more information on our services please contact the Diversity Team on 01642 528334 (Diversity Team)

فقط بعد ان تحصل على المشورة من فريق 'Diversity' على رقم الهاتف 01642 528334

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Re-covering of Existing Roofs





RE-COVERING OF EXISTING ROOFS

New roof coverings may impose substantially higher loads on the roof structure compared to the original ones and in all situations which involve the use of materials heavier than the replaced material (eg. existing slates replaced with concrete tiles) a Building Regulation application is required to be submitted, either a 'Building Notice' or 'Full Plans' application.

Arrange for inspection of the existing roof structure and check whether the roof structure is capable of sustaining the increased load. Obtaining full details of the construction of the existing roof (eg. rafter sizes, spacings and spans, purlin sizes, spacing and spans and details of any propping etc).

The Building Control Surveyor **will not** visit the site to determine the suitability of the existing roof structure or to suggest a design. His visits will only be made after the deposit of a 'Building Notice' or 'Full Plans' application. If assistance is required prior to the Building Regulation application submission details of the existing construction should be submitted for comment.

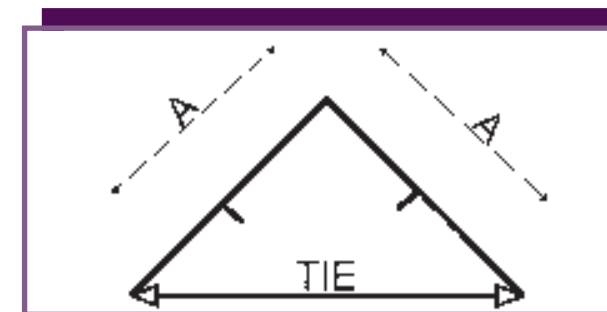
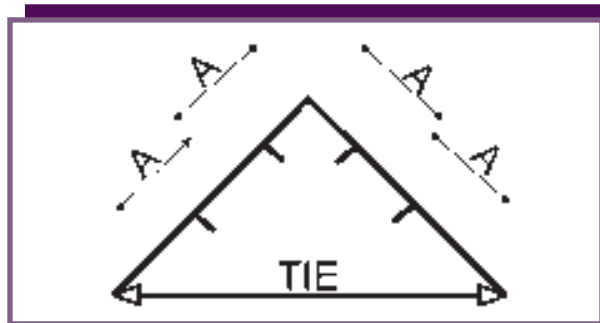
Appropriate strengthening measures may include:

- replacement of defective members, fixings (including nails) and vertical restraints;
- provision of additional structural members, eg. trusses, rafters, bracing, purlins etc., as may be required to sustain the increased loading;

- provision of restraining straps, additional ties and fixings to walls, as may be required to resist the wind uplift;
- provision for strengthening existing purlins (see following details).

Provisions for Strengthening Existing Timber Purlins

- The roof slope to greater than or equal to 30°.
- The roof rafter loading is taken as 0.8kn/m² on slope, use pro-rata.
- To modify value 'A' (0.1 = rafter and felt) (0.7 = tiles).
- Two fitch plates (roofing only).
- See table for timber size. Timber to be class SC3, in accordance with BS 5268 Part 2.
- Bolts required to be 16 diameter, 150mm from each end at 600 centres.



Existing Purlin	Plate Size	Span	Required Fitch Plate Length	'A' Max
75 x 225	200 x 5	3.50	2.80	4.0
75 x 225	200 x 5	4.10	3.30	3.5
75 x 225	200 x 5	4.70	4.24	3.5
75 x 225	200 x 5	5.10	4.57	3.1
75 x 225	200 x 5	4.50	4.10	3.5
75 x 275	200 x 5	3.40	2.40	3.5
75 x 275	200 x 5	4.00	3.07	4.0
75 x 275	200 x 5	5.10	4.30	3.7
100 x 300	200 x 5	5.50	4.75	3.7
75 x 175	150 x 5	4.50	4.10	3.7
60 x 175	150 x 5	4.50	4.30	4.5
75 x 200	175 x 5	4.40	4.17	3.5
50 x 225	200 x 5	4.50	4.30	4.0
50 x 200	175 x 5	4.50	4.30	4.2

Fitched Beams

- Bolts to be 16 diameter at least 60mm from top and bottom edge.
- Horizontal space at 500 to 600mm centres.
- Mark out spacing from beam centre.
- Bolts to be staggered.
- Holes in timber to be no more than 2mm greater than bolt size.