

Annex A (informative)

Design of battens

The thickness of plate battens should be not less than 1/50 of the minimum distances between welds or fasteners. The slenderness of sections used as battens should not exceed 180. The width of an end batten along the axis of the main components should be not less than the distance between centroids of the main members and not less than half this distance for intermediate battens. Furthermore the width of any batten should be not less than twice the width of the narrower main component.

The battens and the connections between them and the main components should be designed to carry the main forces and moments induced by a transverse shear at any point in the length of a member equal to not less than 2.5 % of the maximum axial load in the member. For members carrying bending stresses calculated from eccentricity of loading, applied end moments or lateral loads, the battens should be proportioned to resist any shear due to bending in addition to the above mentioned value of not less than 2.5 %.

Battens should be connected to the backs of angles parallel to both the rectangular axes of the members. They should alternate in each plane and the effective length of a main component should be taken as the spacing centre-to-centre of the battens in the same plane.

The transverse shear of not less than 2.5 % of the axial load should be taken as acting perpendicular to the minor axis of the member. The battens in each plane should be designed for the components of this shear resolved perpendicular to the rectangular axes plus any transverse shear due to the weight or wind resistance of the member.

Information on other compound configurations can be obtained from BS 5950-1:1990, 4.7.

Annex B (informative)

Terminations commonly used for guys

B.1 Guy sockets (efficiency 95 % to 100 %)

This method is particularly suitable for terminating spiral and locked coil strands. It involves fitting the brushed end of the strand into a tapered bore and filling with either white metal, zinc or synthetic resin.

B.2 Loops

The following methods of termination are most applicable to multi-stranded ropes. The end of the rope is passed round the groove in the thimble and fastened back to itself by one of the following methods.

- Hand splicing (efficiency 60 % to 90 %).* This is the traditional method of forming a terminal loop.
- Ferrule secured eye termination (FSET) (efficiency 90 % to 95 %).* The ferrule is placed over the looped back end and body of the rope and then swage pressed. This process is covered by BS 5281.
- Rope clamps (efficiency 20% to 90%).* Bulldog grips come into this category and permit relatively easy site termination but they are generally not advisable for permanent new masts and require re-tightening at regular intervals.

Wedge and socket anchorages are covered by BS 7166.

B.3 Factory formed helical tension terminations (efficiency 90 % to 100 %)

These are preformed strands that have been previously coated by some substance (such as abrasive grit), which are wrapped around the periphery of the wire rope for a length of up to 2 m, dependent on guy size and type. The preformed strand therefore provides a loop termination on site which can be adjusted. It is necessary to provide a rigid thimble to maintain the loop diameter at the connection.

B.4 General

Other methods can be used for terminating guy ropes provided their efficiency and durability can be demonstrated.

Provided the efficiency of the termination is not less than 90%, it may be assumed to have the same ultimate strength as the guy rope. No extra allowance need be made to the material factor γ_m to be applied to all guys and linkage components.

The size range of ropes on which the above terminations can be used is as follows.

- Hand splicing — full range;
- Loop produced by FSET — full range;
- Socket — standard — 8 mm to 41 mm diameter;
— special — 32 mm upwards;
- Preformed grips, maximum — 25mm diameter.

For guidance only, typical efficiencies are given in Table B.1.

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web 7 Na $2\text{C}_2\text{O}_4$ is the limiting reactant percent yield 86.6% only four molecules can be made 9 this amount cannot be weighted by ordinary balances and is worthless 10 nitrogen is the limiting reagent 11 yes methane is the limiting reagent 12 C is the limiting reagent 4 33 g of H_2 are left over 13

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