



LINCS BUILDING
CONSULTANCY

Guidance Note No. 20

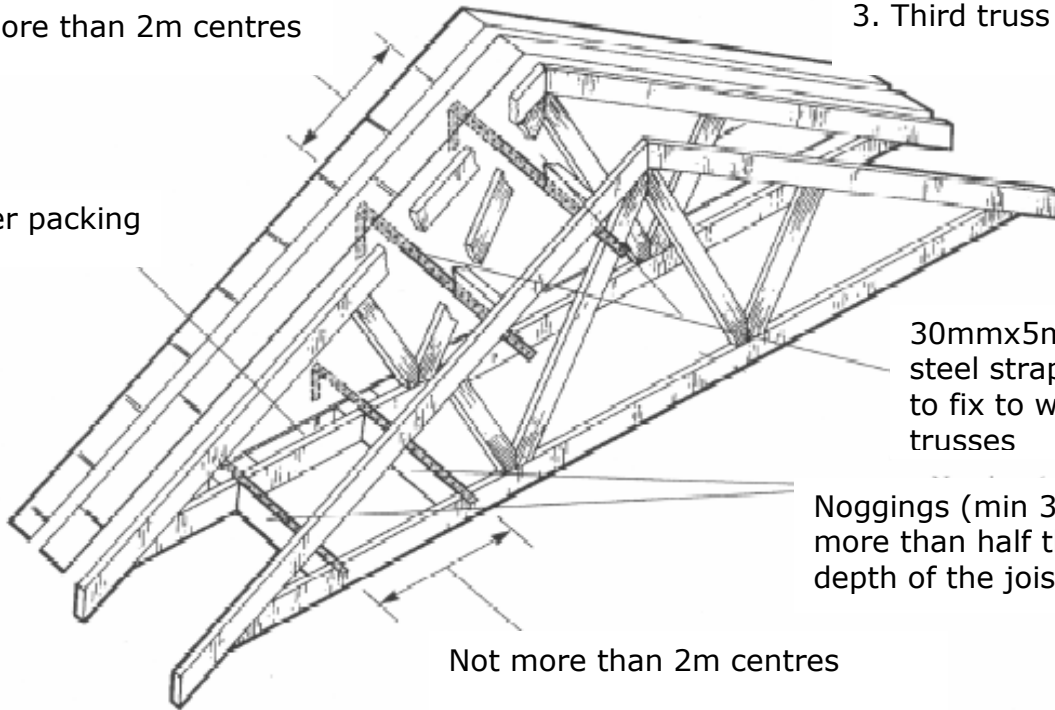
Lateral Restraint to Wall
at Roof Level

Notes:

- 1. Bracing omitted for clarity
- 2. Returns on straps should be fastened to un-cut blocks
- 3. Third truss omitted for clarity

Not more than 2m centres

Timber packing



30mmx5mm galvanised mild steel strap of sufficient length to fix to wall and 3No. roof trusses

Noggings (min 38mm wide and more than half the depth of the depth of the joist)

Not more than 2m centres

Strapping Gables to Rafters

Straps provide most of the lateral stability to the gable wall and are nearly always required. They must engage a full block on a gable, and will need to be fitted to the underside of the raft members. Nail each strap to at least three rafters and to the timber noggings, which are needed between the rafters (as shown right).

Straps can be fixed before the gable is built, but great care is needed to ensure that downturns are in line and match with coursing. Straps can be built into the masonry in their correct positions and temporarily tied to rafters; allowing noggings and packing to be added later. Nailing a strap (or even screwing it) into position while the masonry is green is difficult to do without disturbing and weakening the blockwork.

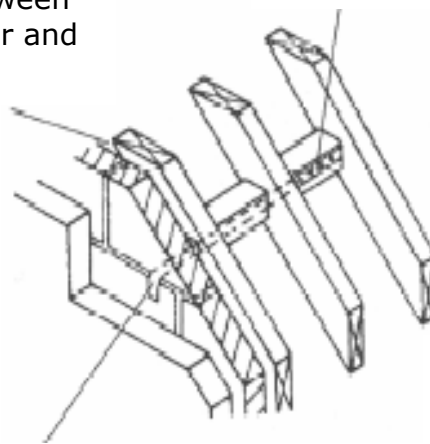
How to Fix rafter Straps

Engage at least three rafters with each strap

Straps of 5x30mm galvanised steel

Pack between end rafter and wall

Use corrosion resistant nails (3.35x65mm)



Straps to have at least 100mm downturn tight against a full block on the gable

Nail noggings securely to the rafters



Lincs Building Consultancy

**Tedder Hall
Manby Park
Louth
Lincolnshire
LN11 8UP**

**Tel: 08707 551696
Fax: 01507 327069
www.e-lindsey.gov.uk
E-mail: lbc@lincsbc.gov.uk**

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Please note that these guidance notes are for advice only and may not cover all situations. It is your responsibility to ensure that they are appropriate for use in your particular circumstances.