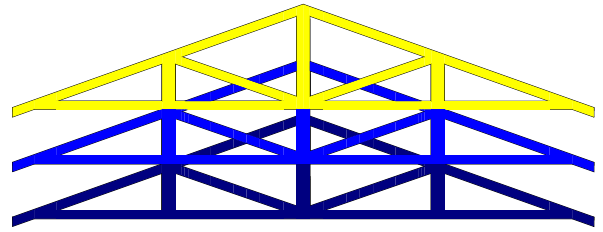


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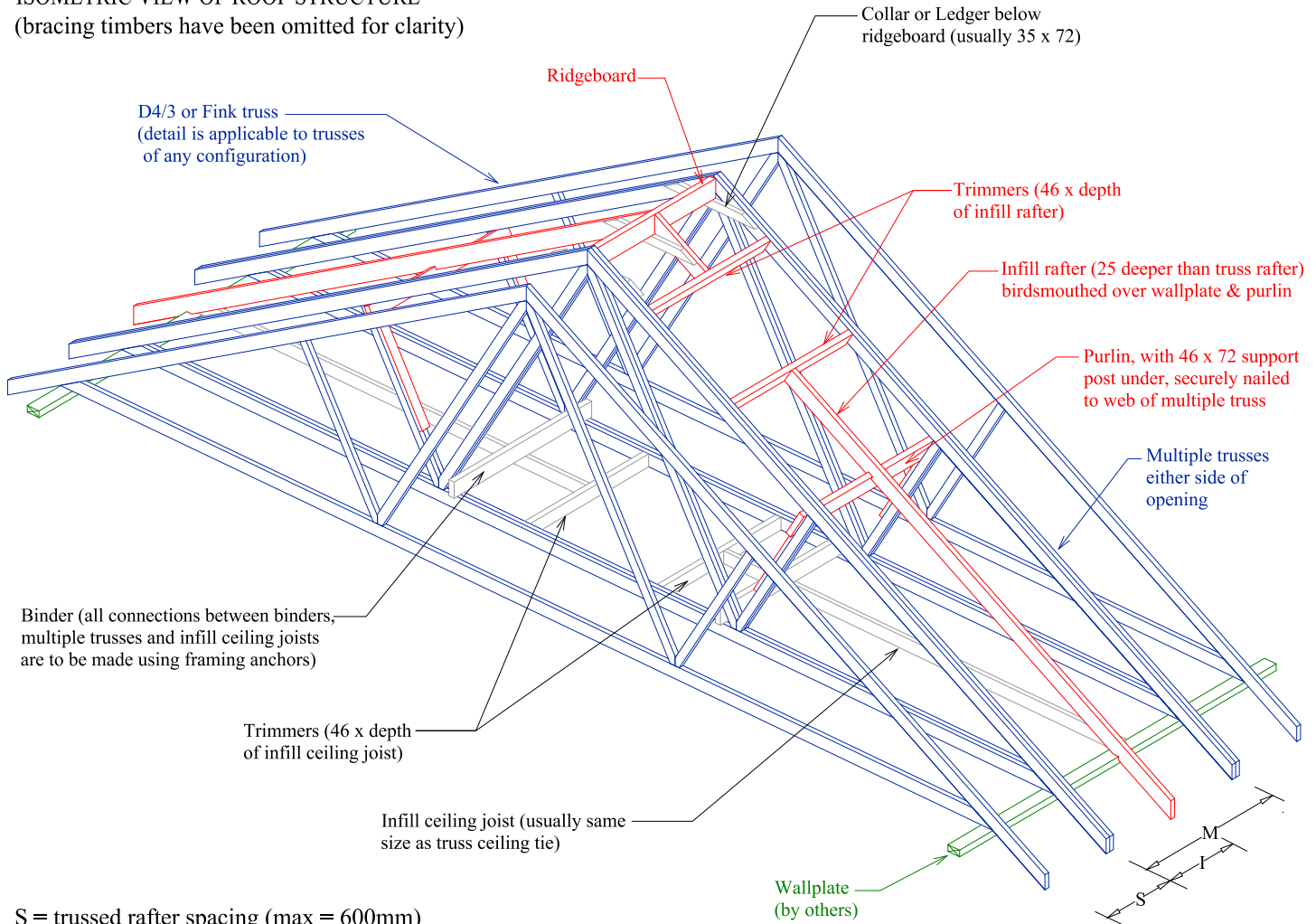
TECHNICAL DATA SHEET No. 12 - CHIMNEY & OTHER OPENINGS

Ideally chimneys and ducts should be designed to fit within the trussed rafter spacing. When this is not possible, multiple trusses and loose infill timbers should be used as shown below. These details are applicable to chimney, duct, rooflight and other similar openings up to 3000mm wide. For details of Trap hatch and Attic truss openings see Technical Data Sheets 13 and 11 respectively.

Trussed rafters should NEVER be cut or modified on site without the prior approval of the trussed rafter designer/manufacturer. In most cases retrospective cutting of trussed rafters to form openings will not be feasible, therefore they must be allowed for during the original design scheme for the roof.

ISOMETRIC VIEW OF ROOF STRUCTURE

(bracing timbers have been omitted for clarity)



S = trussed rafter spacing (max = 600mm)
 I = loose infill spacing (max = 600mm)
 M = spacing between multiple trusses (max = 3000mm)

The approximate number of plies of the multiple trusses may be determined from the following table:

Truss spacing (mm)	Maximum spacing dimension M between multiple trusses for		
	2 ply	3 ply	4 ply
400	1200	2000	2800
450	1350	2250	N/A *
600	1800	3000	N/A *
S	3 x S	5 x S	7 x S *

* Wide openings are usually determined by the feasibility of the purlin and/or binder design across the opening.

NOTE: The "Roof Designer" is responsible for the design of all loose infill timbers. Unless Dover Trussed Roof Company are specifically employed as Roof Designer, all loose infill timbers are supplied in good faith but without design responsibility.