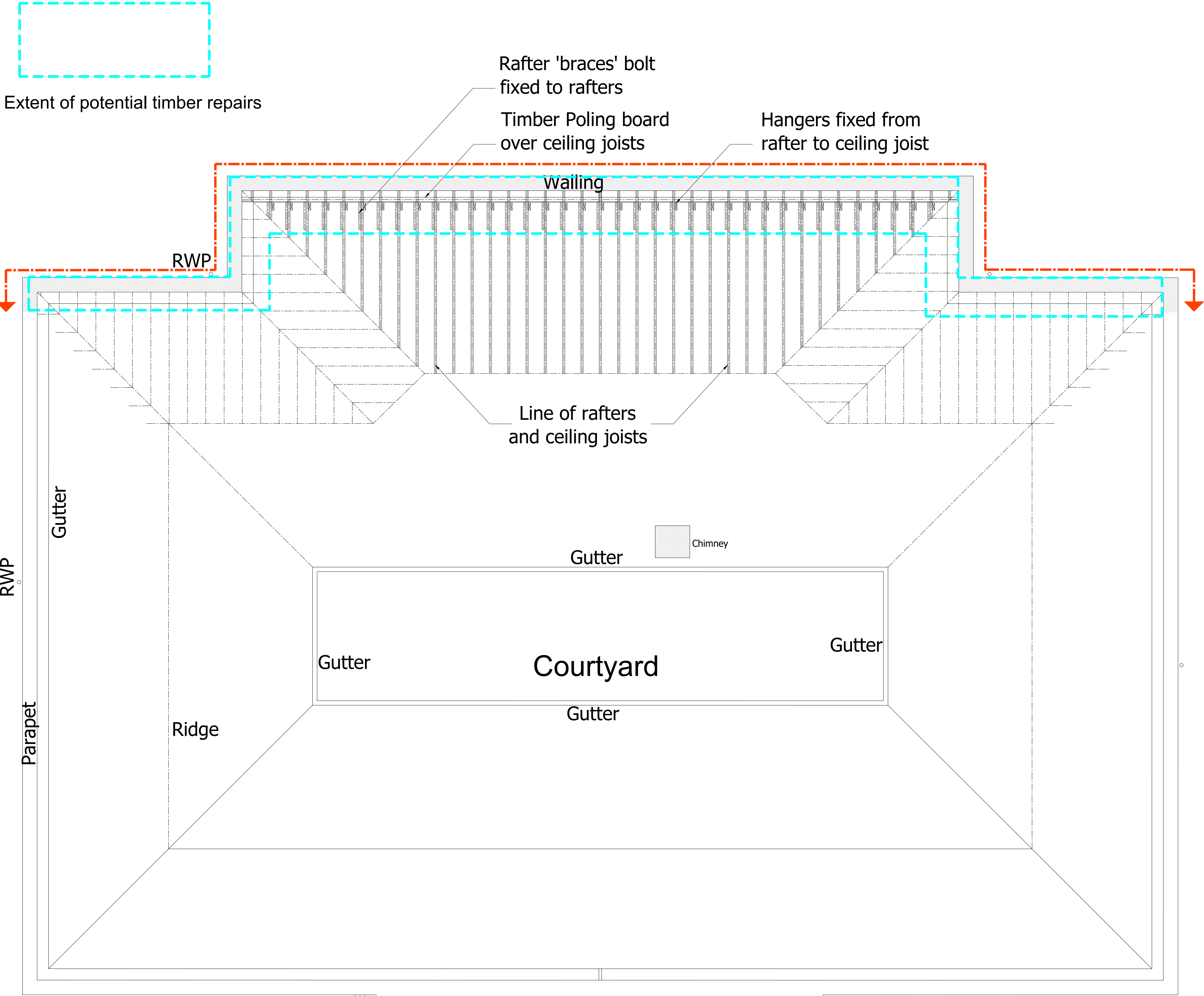




From TRADA Eurocode 5 Span tables

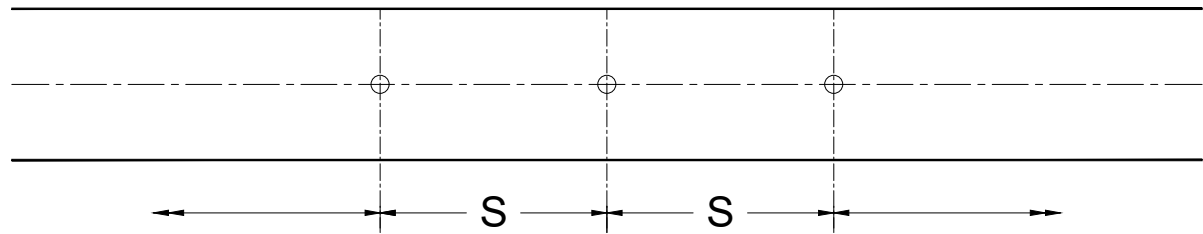
The minimum Bolt specification to be used is:

- M12 Bolts (min 3mm x 38mm M12 washers under head and nut) for 38mm, 44mm, and 63mm wide sections
- M16 Bolts (min 4mm x 48mm M16 washers under head and nut) for 72 and 89mm wide sections.

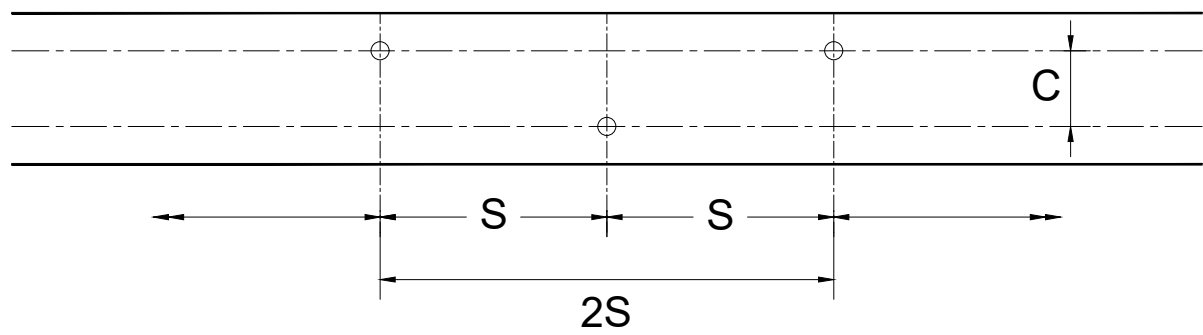
It may be possible to use other types of fasteners for which capacities have been obtained experimentally and declared by manufacturers with third party certification eg dog tooth connectors.

Fixing can be either along the centreline or staggered as shown in diagrams below:

FIXING ON CENTRELINE

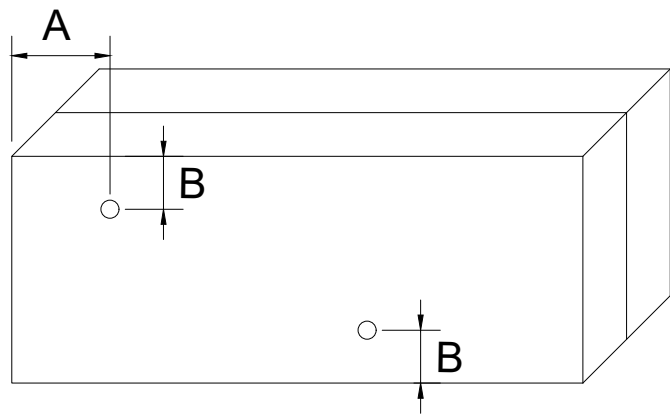


TWO STAGGERED ROWS OF FIXINGS



Fixing type	Minimum dimension (mm)		
	A	B	C
Nail (without pre drilled hole)	15d	5d	5d
Bolt	Maximum of 7d or 80mm	4d	4d

d - diameter of nail or bolt



Roof Chord Layout
(Scale 1:50)

MRG Martin Ralph Group RICS 11 Dragoon House Hussar Court Brambles Business Park Portsmouth Hampshire PO7 7SF www.martinralph.co.uk info@martinralph.co.uk T. 023 9225 7711 F. 023 9225 7712		CLIENT Vivo Defence Services Buckley Barracks Chippenham Wiltshire. SN14 6BW		DRAWING TITLE Roof Chord Layout		PURPOSE For Listed Building Consent			
						AMENDMENTS P01 - First issue, Further work notes added	DATE 30/02/26		
		PROJECT Guardroom, Remedial Design Works		DATE Feb '26	SCALE 1:50		PAPER SIZE A1		
				DRAWN BY SPG		REVIEWED BY			
		DRAWING No. 25.237- 07			REVISION P01				

