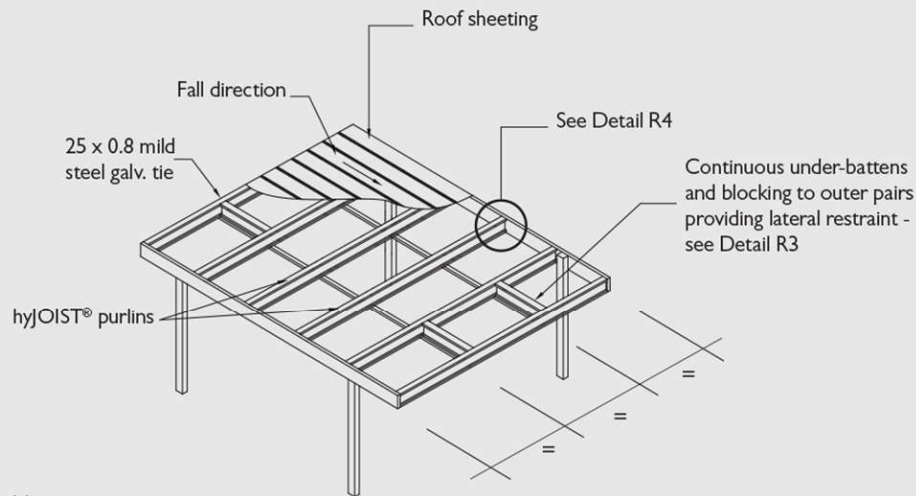


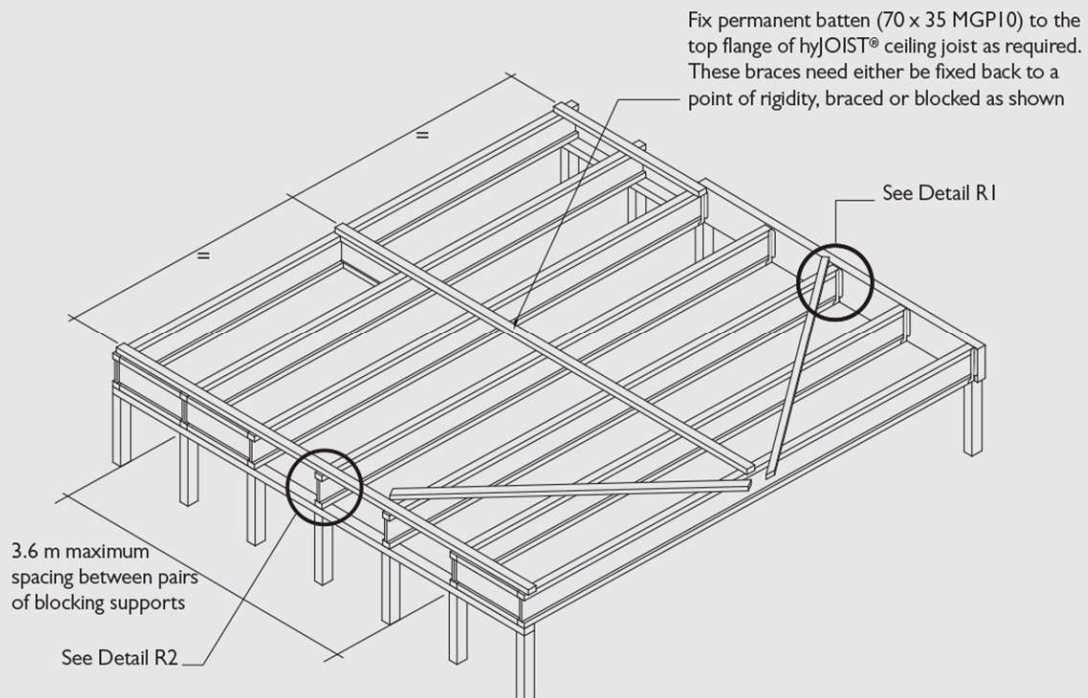
Carport purlin layout



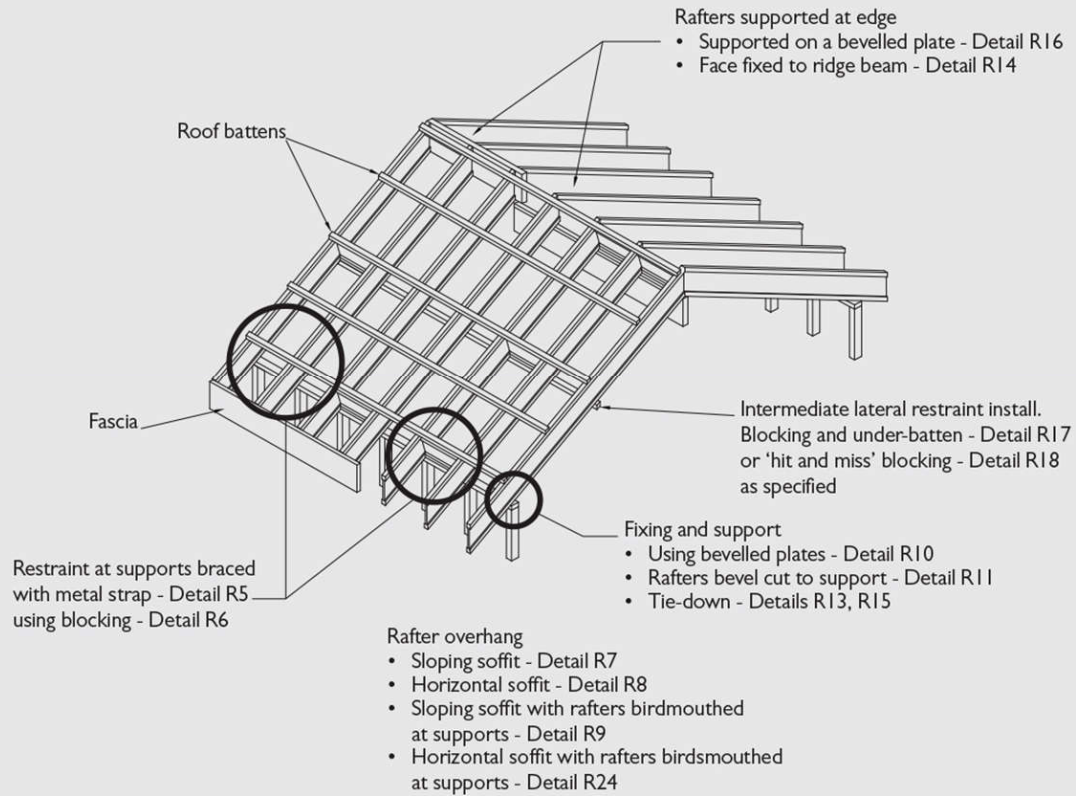
Notes:

1. Carports are simple structures in which not more than 50% of the perimeter wall area is enclosed
2. Roof sheeting mass is assumed to not exceed 10 kg/m^2
3. The design information contained does not include any consideration of overall stability of the carport structure. Separate engineering advice should be sought regarding this aspect

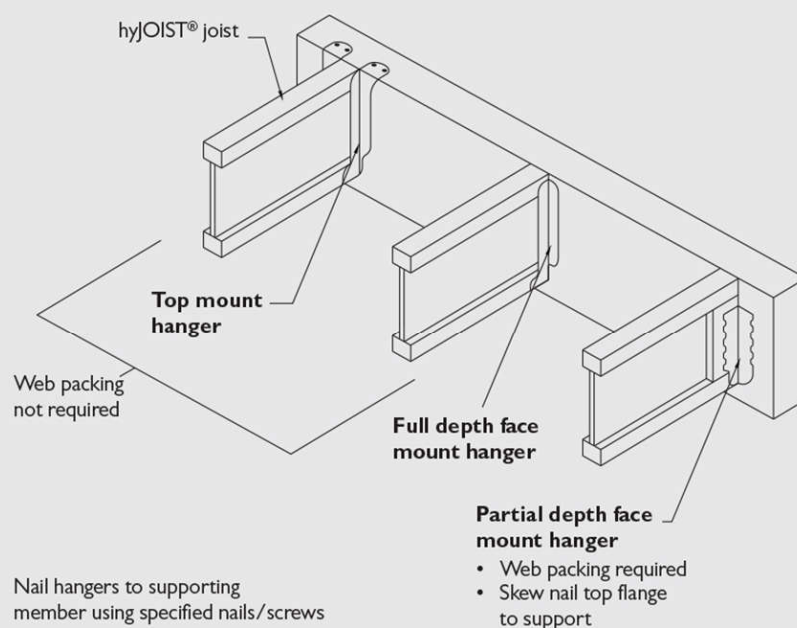
Ceiling joist installation layout



hyJOIST® rafters - general installation requirements

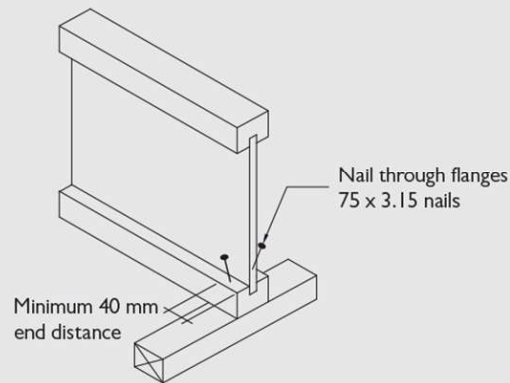


Detail R1: Joist hangers for ceiling joists

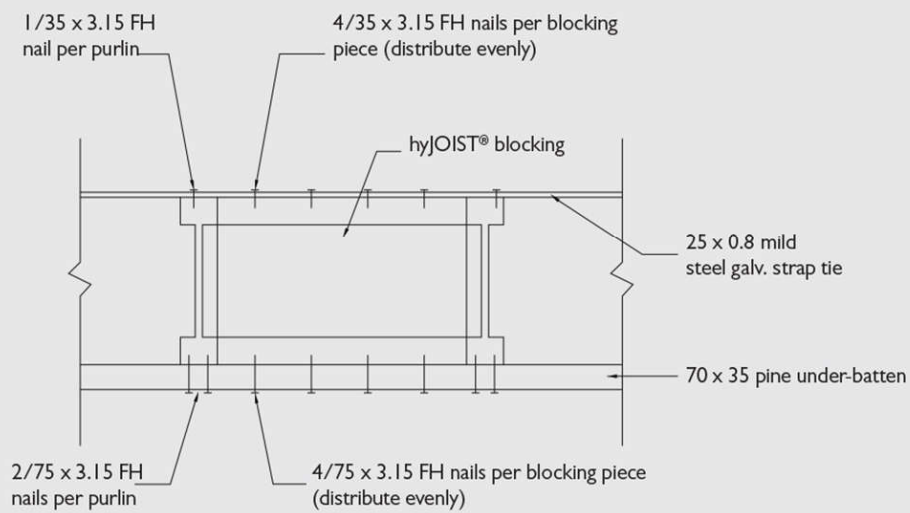


Note: Not suitable for skillion rafters - refer to rafter design

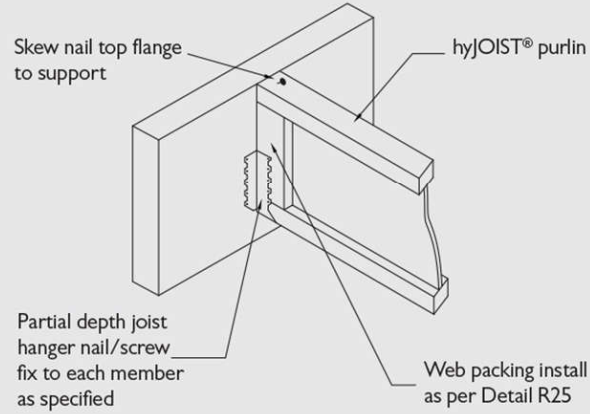
Detail R2: Nailing down to supports



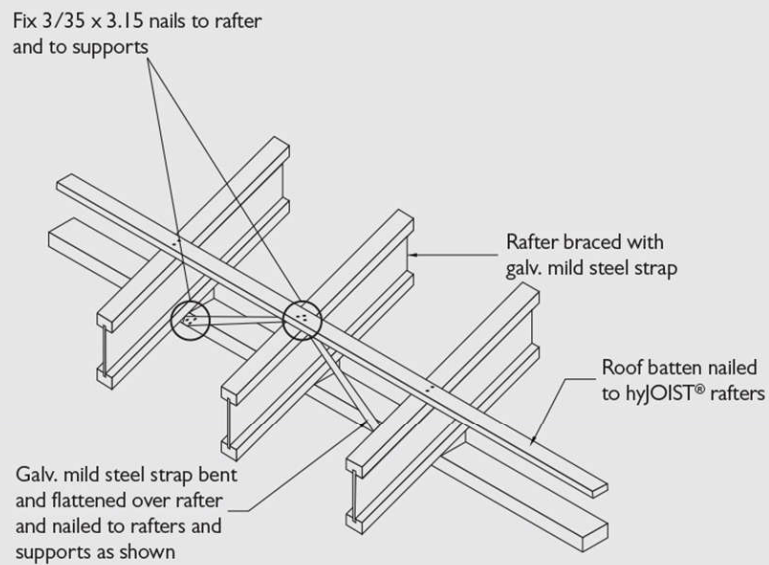
Detail R3: Lateral restraint - blocking installation



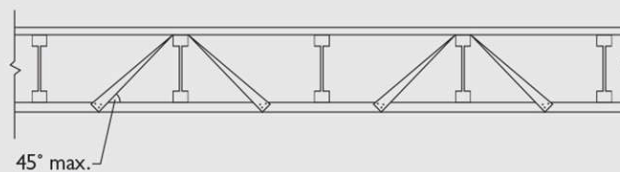
Detail R4: Carport purlins - bracket installation



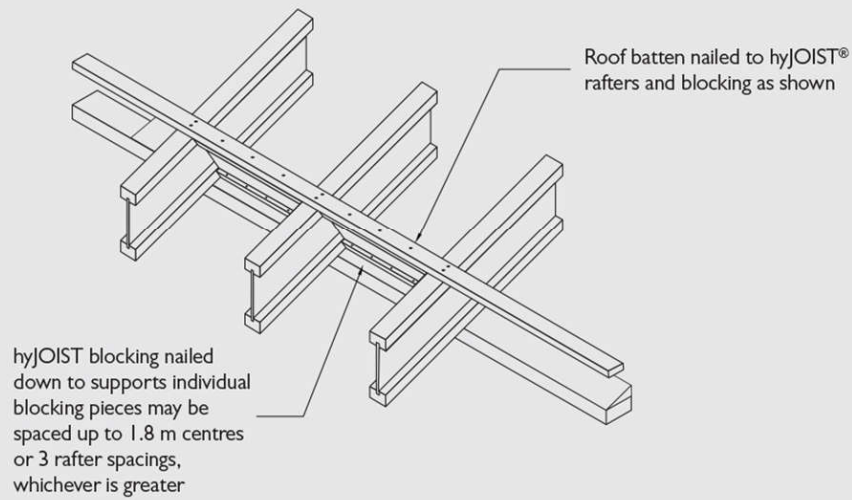
Detail R5: Restraints at supports - braced with metal strap



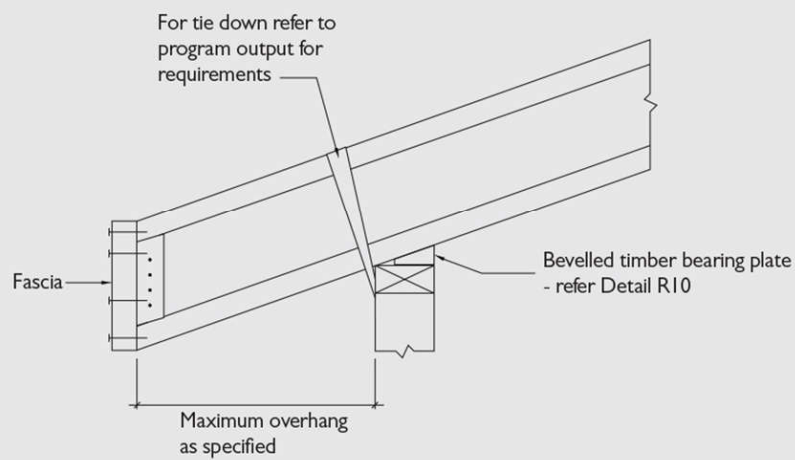
Brace every second rafter (minimum).
Ensure all rafters are fixed to continuous battens



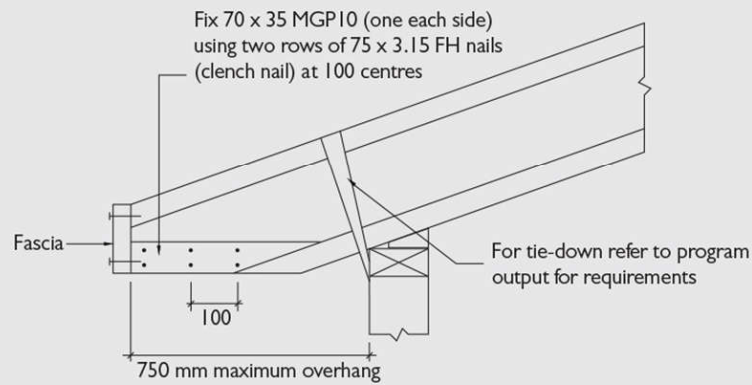
Detail R6: Restraint at supports - using blocking



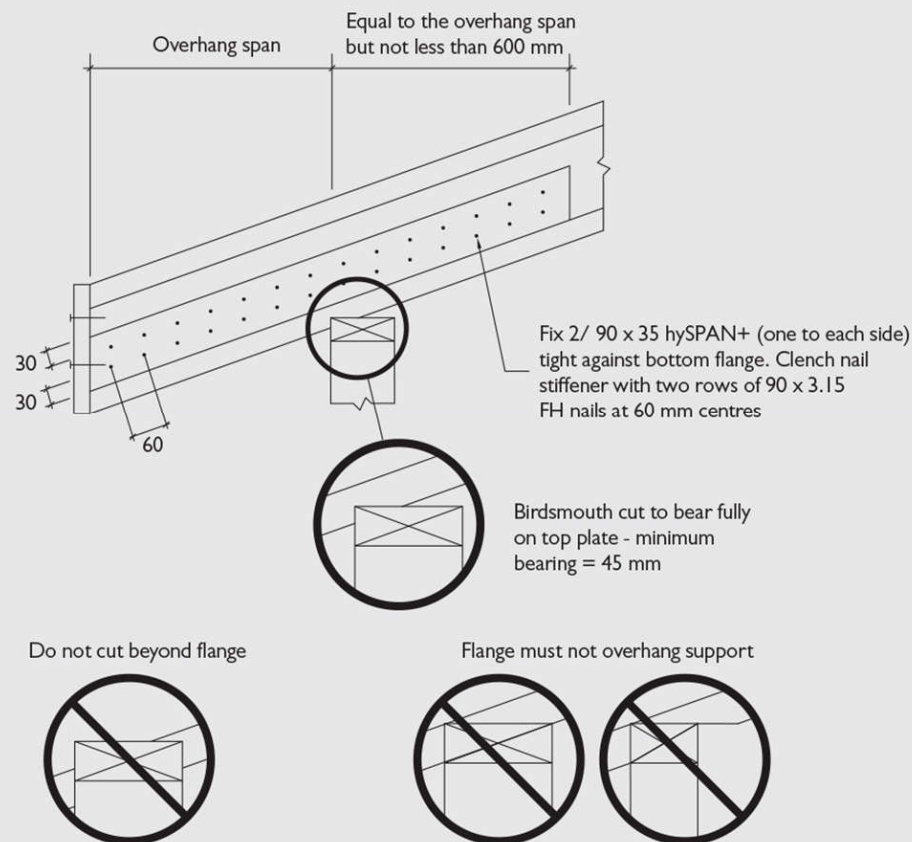
Detail R7: Rafter overhang - sloping soffit with bevelled plate supports



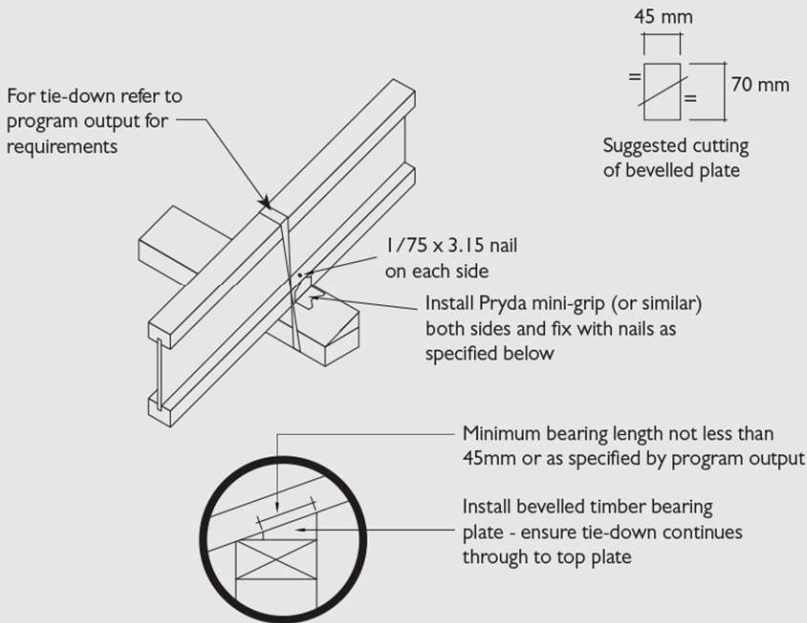
Detail R8: Rafter overhang - horizontal soffit with bevelled plate supports



Detail R9: Rafter overhang - sloping soffit with rafters birdsmouthed at supports



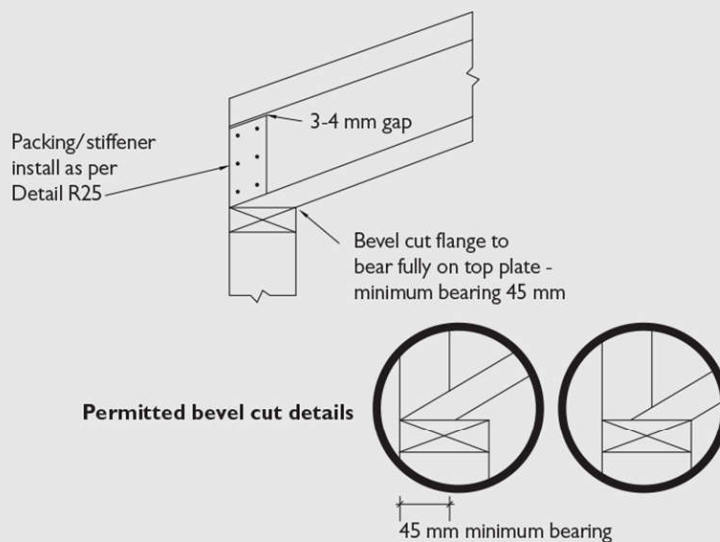
Detail R10: Fixing and support using bevelled plate



Roof Pitch	Rafter Spacing	Installation of mini-grips (or similar)
$\leq 10^\circ$	≤ 1200	Not required
	> 1200	Fix with 2/35 x 3.15 FH nails per tab
10° to 35°	≤ 1200	Fix with 4/35 x 3.15 FH nails per tab
	> 1200	Fix with 5/35 x 3.15 FH nails per tab

For roof pitches greater than 35° seek engineering advice.

Detail R11: Rafters bevel cut to supports



For rafters with overhangs - see separate details provided



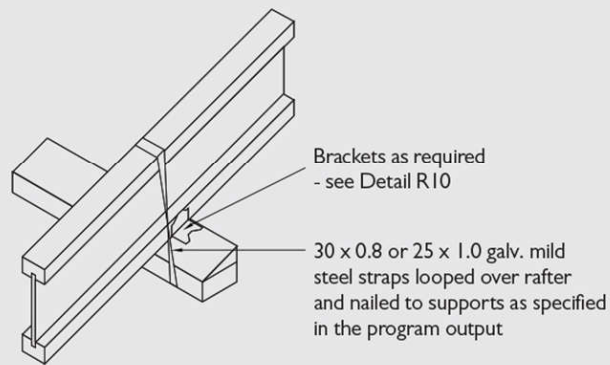
Notching at the high end not allowed



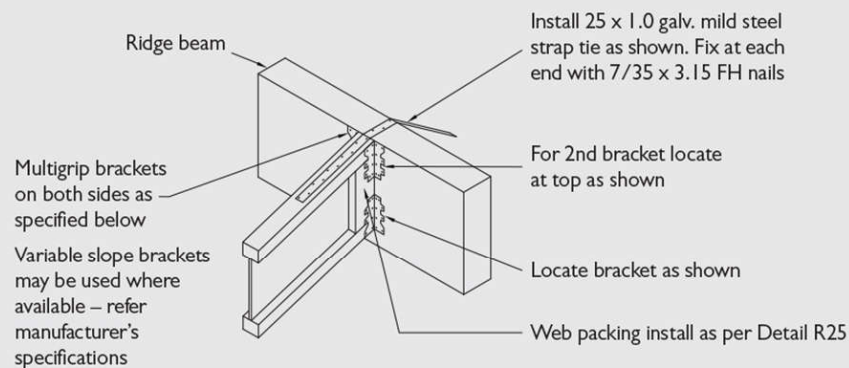
Flange must not overhang support



Detail R13: Rafter tie-down - using looped steel strap

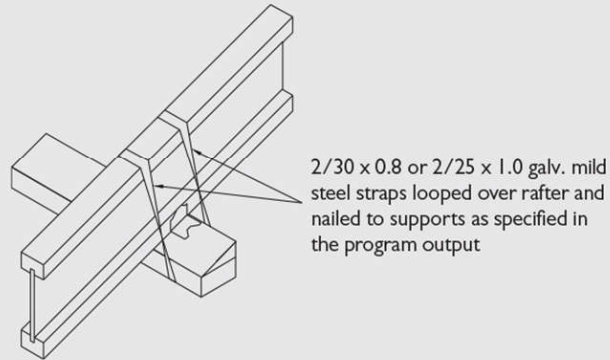


Detail R14: Rafters supported at ridge - face fixed to ridge beam

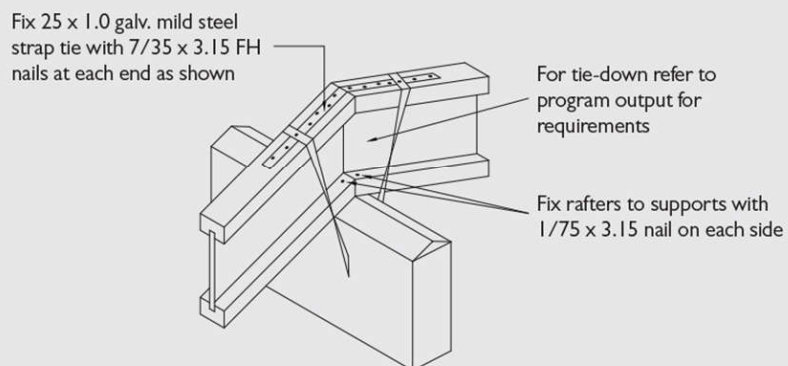


- Installation of multigrip brackets
- Install with split toward middle of beam depth
 - For 200 and 240 deep hyJOIST® use 1 bracket each side, for 300 and deeper hyJOIST use 2 brackets each side
 - Nail to each member as specified in the program output
 - distribute nails uniformly

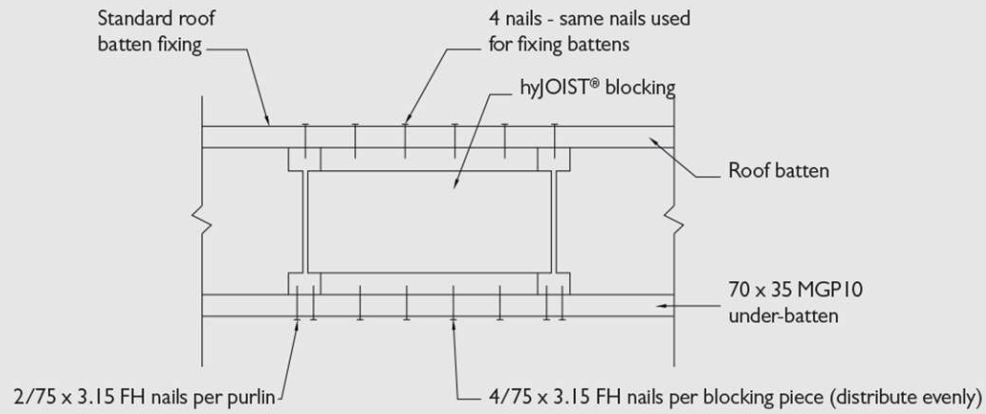
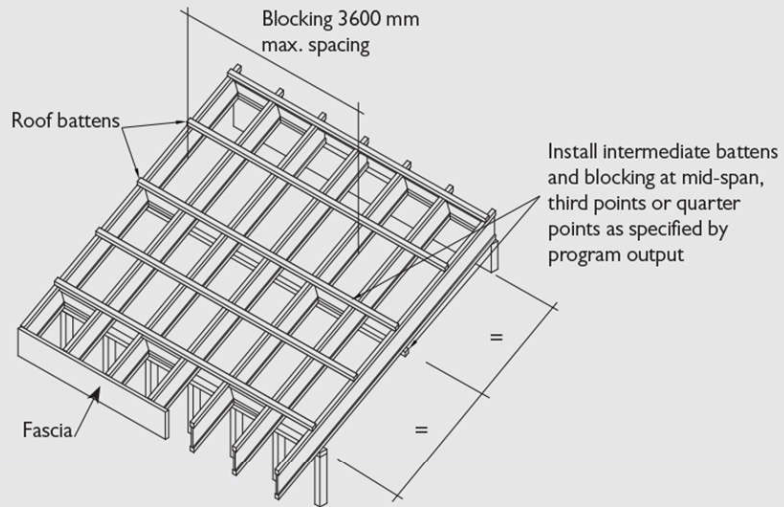
Detail R15: Rafter tie-down - using looped steel strap



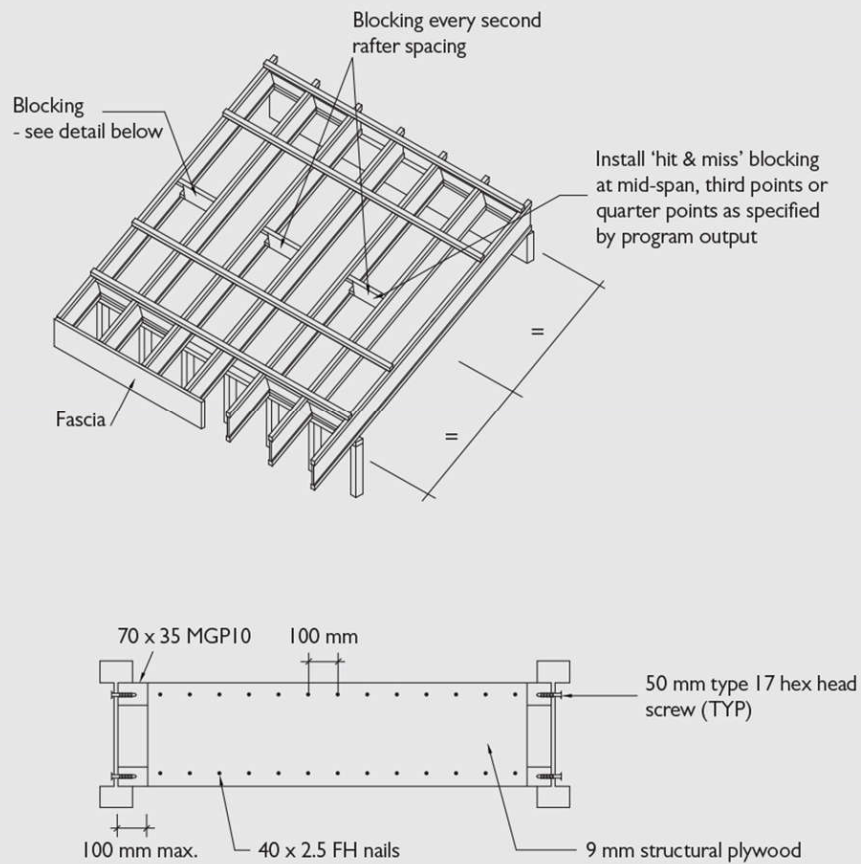
Detail R16: Rafters supported at ridge - supported on a bevelled plate



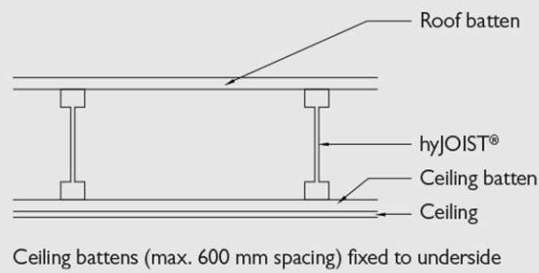
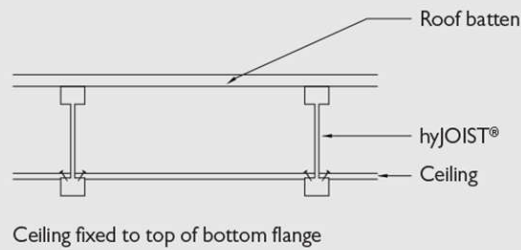
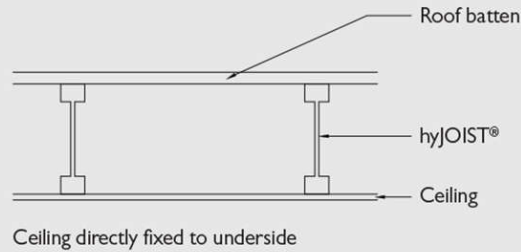
Detail R17: Intermediate lateral restraint for rafters - using battens and blocking



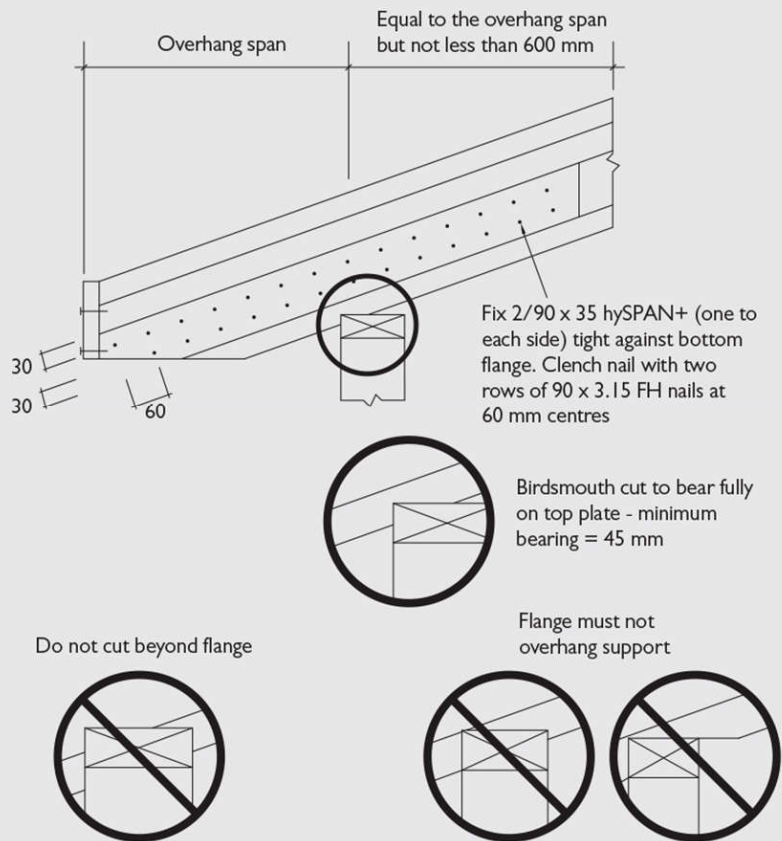
Detail R18: Lateral restraint for rafters - using 'hit and miss' blocking



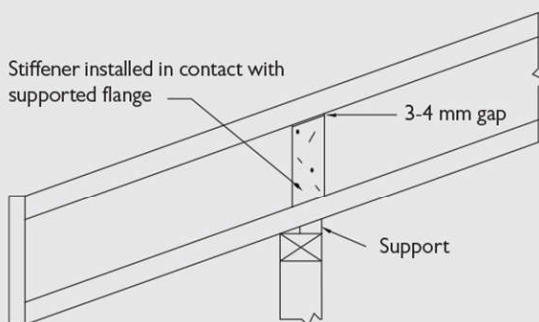
Detail R23: Lateral restraint for rafters - ceiling providing restraint to bottom flange



Detail R24: Rafter overhang - horizontal soffit with rafters birdsmouthed at supports



Detail R25: Web stiffening/packing for rafters



Where web stiffeners/packing are specified clench nail to both sides of web using minimum 5 nails for 200 mm joist depth and 1 additional nail for every additional 100 mm depth

	Stiffener/Packer Thicknesses*	Nail Length
45 mm flange	18 mm	50 mm
63 mm flange	27 mm	75 mm
90 mm flange	39 mm	100 mm

*Plywood of appropriate thickness is available as an accessory product.

Detail R26: Nested rafter outrigger

