

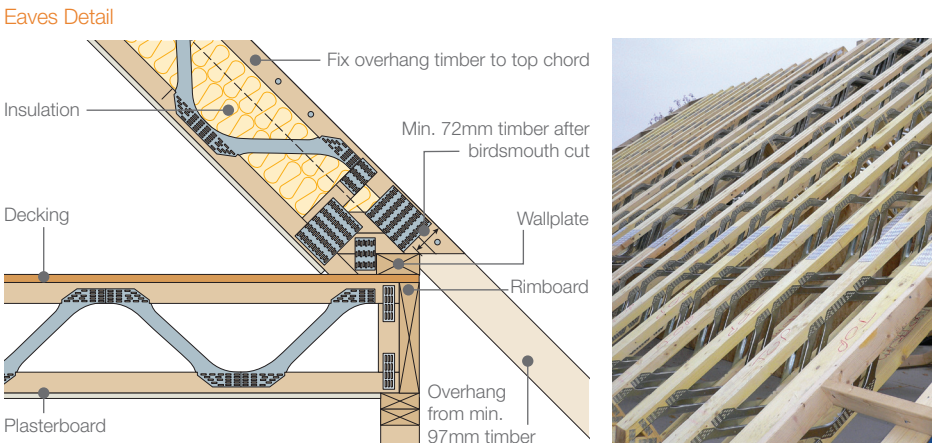
Pitched Roofs

easi-joist® can easily be adapted to create pitched roof structures as a lighter, more thermally efficient alternative to solid sawn timber. By redesigning the end column configuration, the **easi-joist™** system can be installed onto a wallplate or ridge beam without the need for a bevelled wallplate or special metalwork items. This versatile connection detail enables top and bottom supports to accommodate a range of bearing widths and can also incorporate intermediate supports.

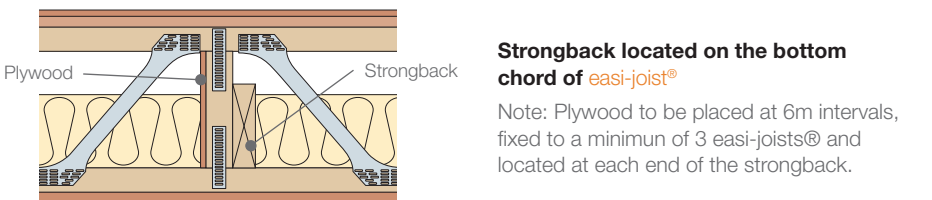
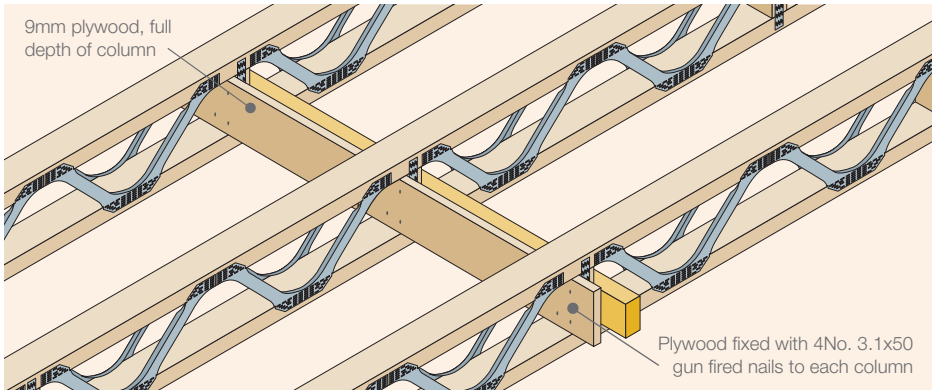
Using joists for roof structures requires consideration of external load factors and more complex geometry at eaves and ridge locations.

Bracing

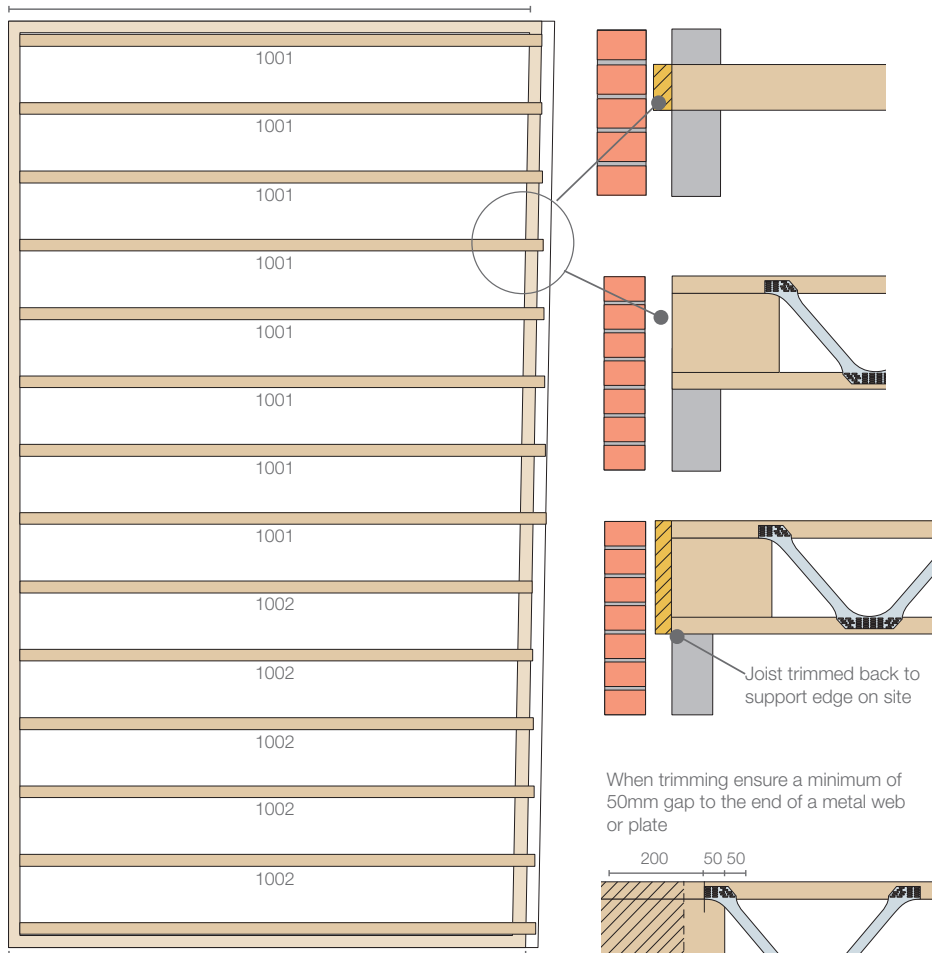
easi-joist® roofs should be temporarily braced longitudinally and diagonally during erection. Structural sarking is the preferred method of providing racking resistance for the roof structure, however longitudinal and diagonal bracing can also be used.



Roof Bottom Chord Restraint Detail

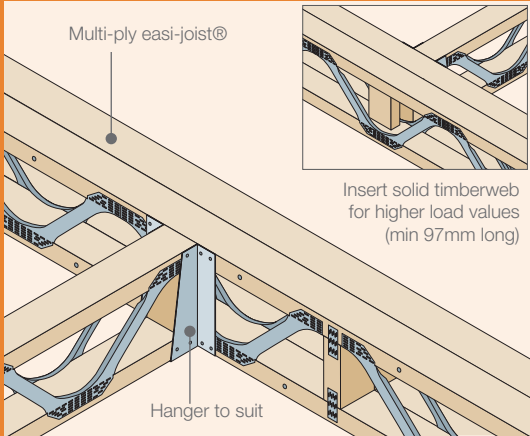


Solid Trimmable End Support

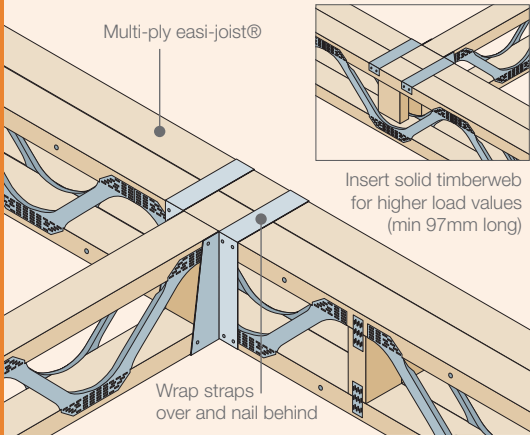


GENERAL DETAILS

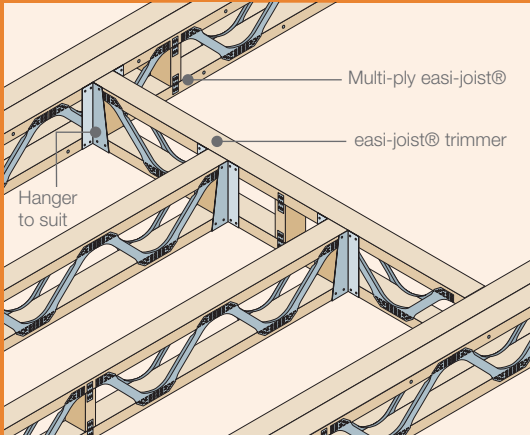
G1 • Face Fix Hanger



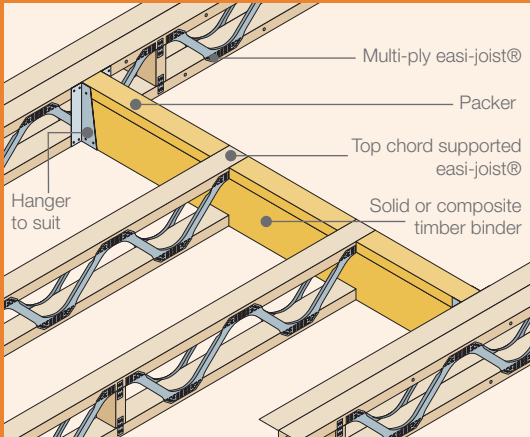
G2 • Strap Hanger



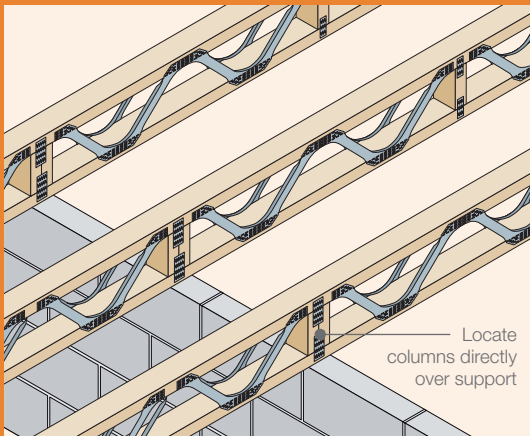
G3 • Stair Opening with easi-joist®



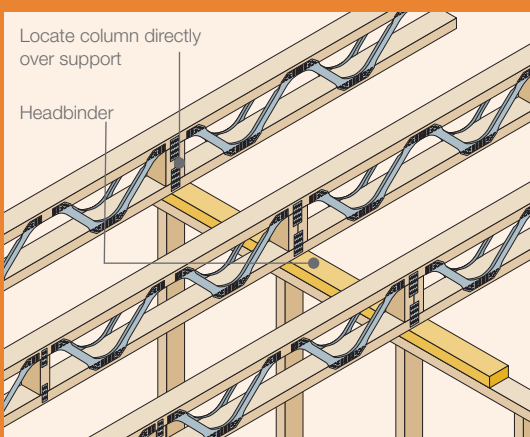
G4 • Stair Opening with Binder



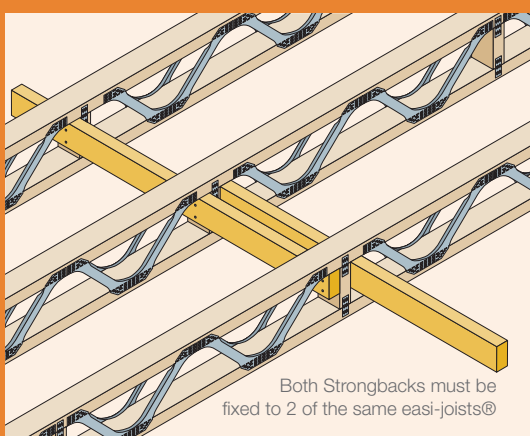
G5 • Intermediate Support (on to block wall)



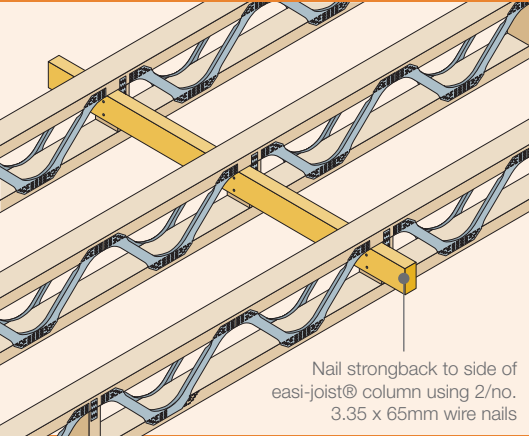
G6 • Intermediate Support (on to stud wall)



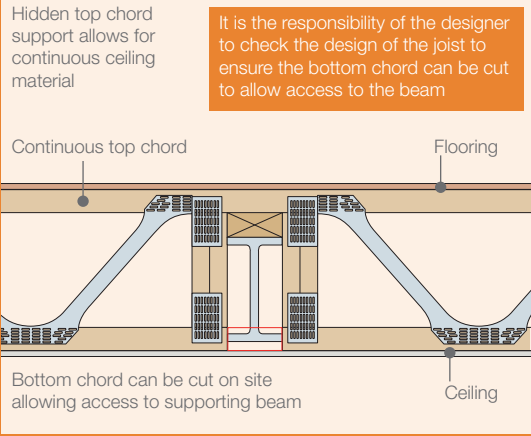
G7 • Strongback Lapping



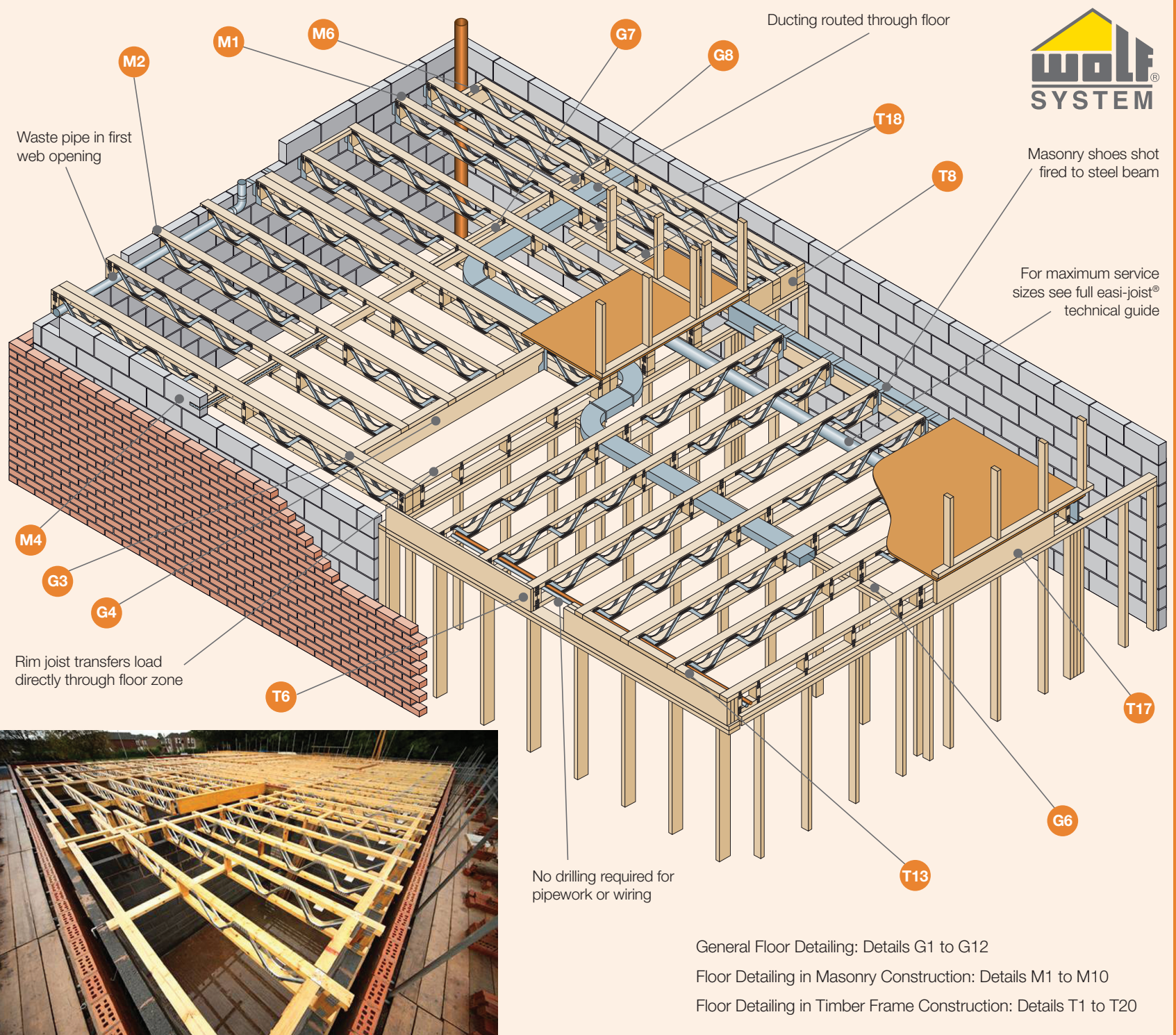
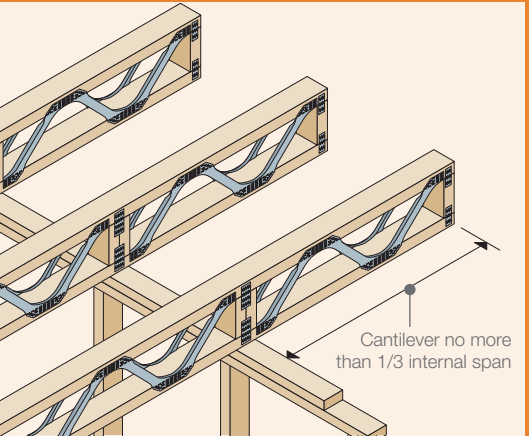
G8 • Strongback



G11 • Joist on I-Beam with Hidden Support

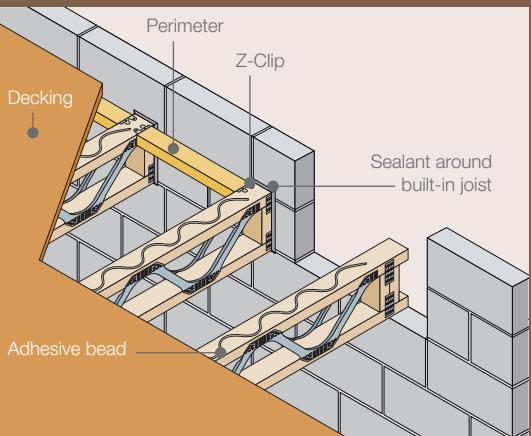


G12 • Cantilevered Joists

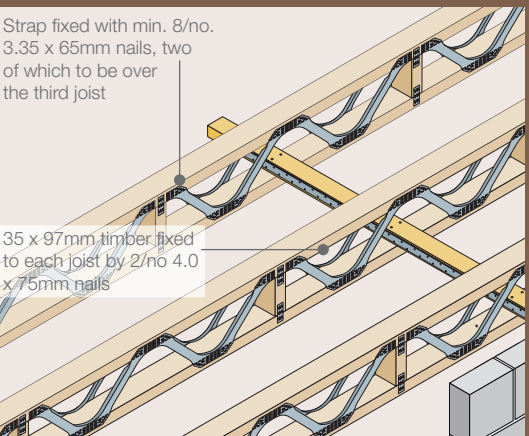


MASONRY DETAILS

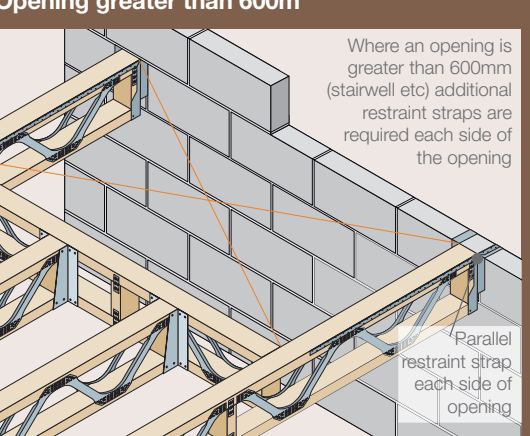
M2 • Bottom Chord Support Built In



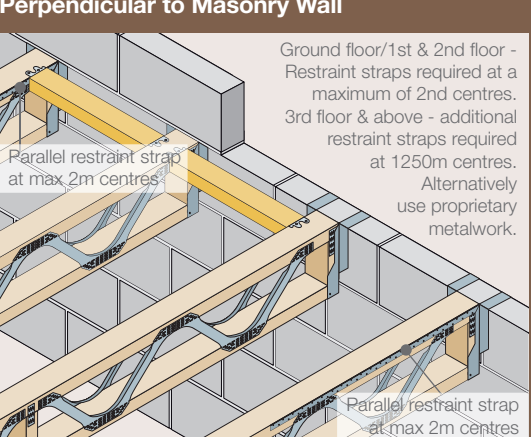
M5 • Lateral Restraint Bracing



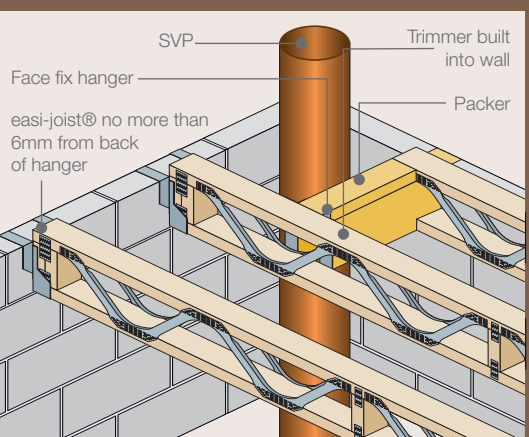
M8 • Parallel Restraint Bracing - Opening greater than 600m



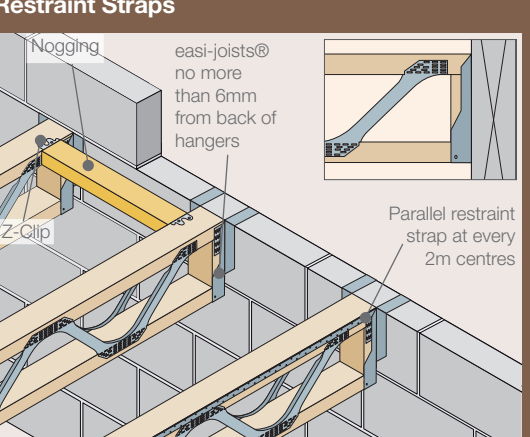
M3 • Parallel Restraint Bracing - Joists Perpendicular to Masonry Wall



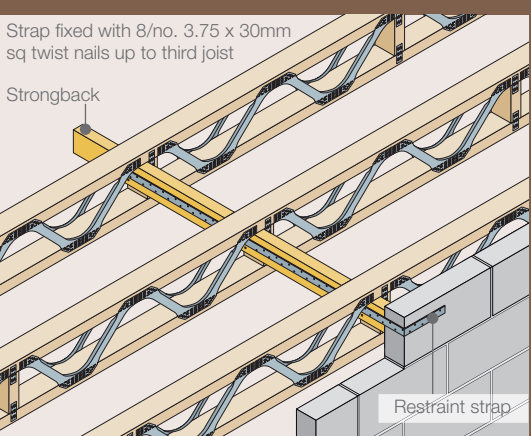
M6 • SVP with Trimmer



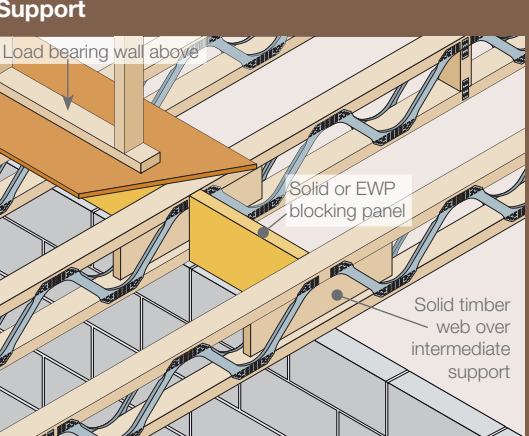
M9 • Hangers with Noggings and Parallel Restraint Straps



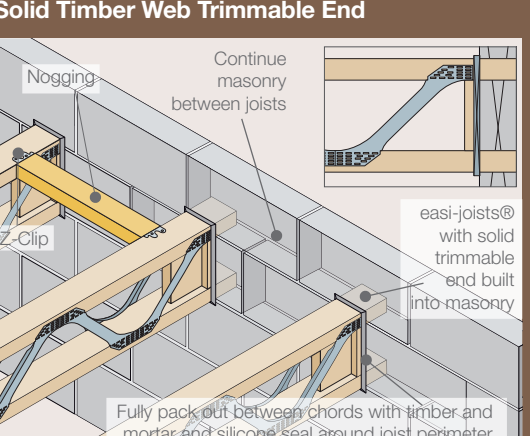
M4 • Lateral Restraint of Strongback



M7 • Solid Timber Web over Intermediate Support

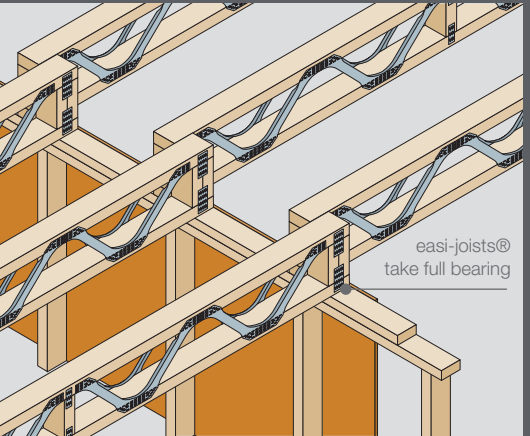


M10 • Bottom Chord Support Built in with Solid Timber Web Trimmable End

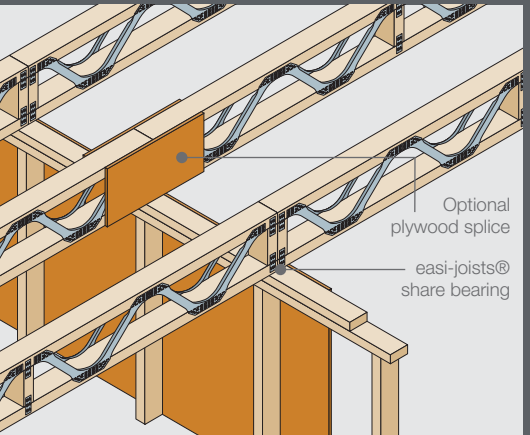


TIMBER DETAILS

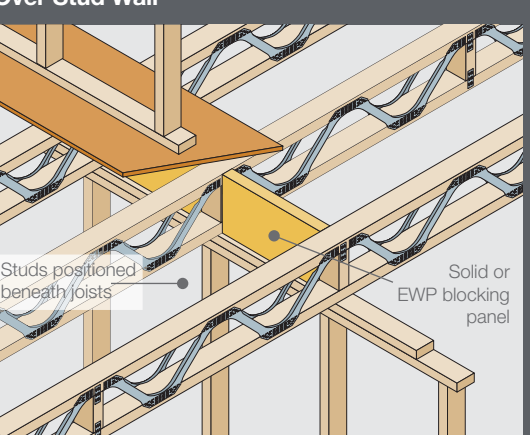
T1 • Internal Wall Lapped Joists



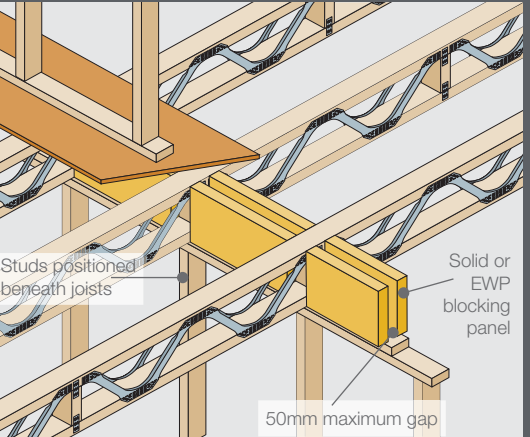
T2 • Internal Wall Butted Joists



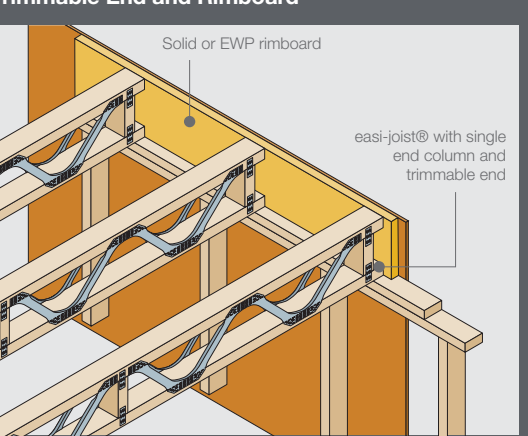
T3 • Intermediate Support Bearing Over Stud Wall



T4 • Intermediate Support (on to stud wall)



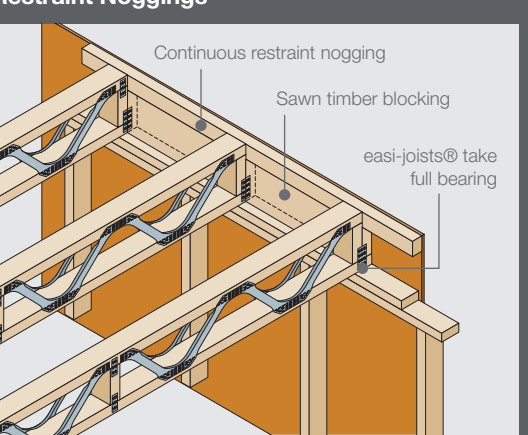
T5 • Bottom Chord Support with Trimmable End and Rimboard



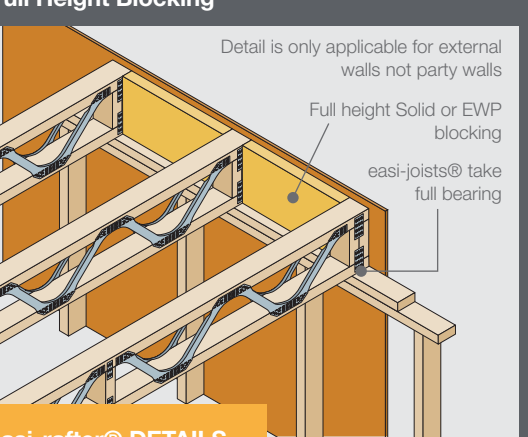
T6 • Bottom Chord Support with Rimboard Closure



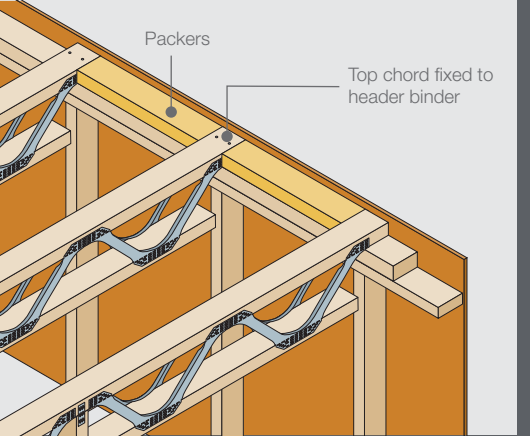
T7 • Bottom Chord Support with Restraint Noggings



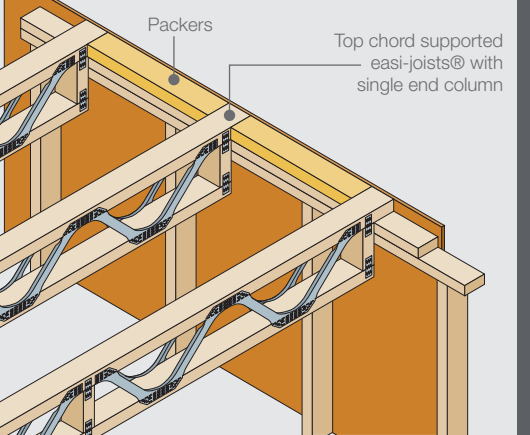
T8 • Bottom Chord Support with Full Height Blocking



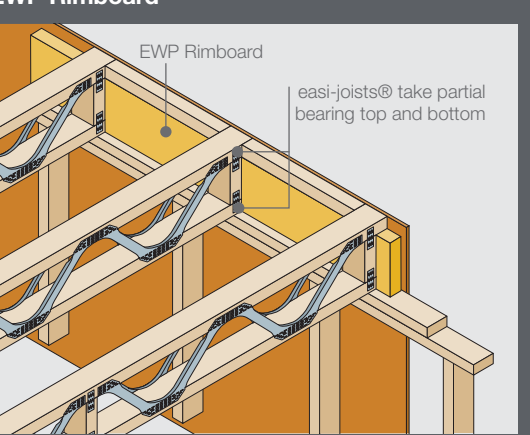
T9 • Top Chord Support



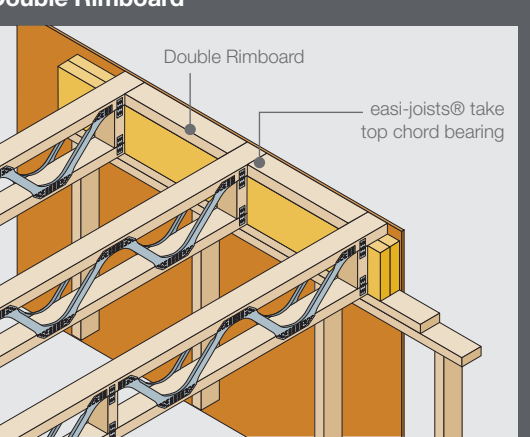
T10 • Top Chord Support with End Column



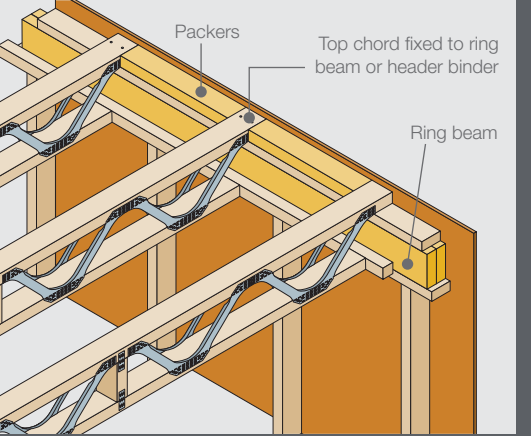
T11 • Bottom and Top Chord Support with EWP Rimboard



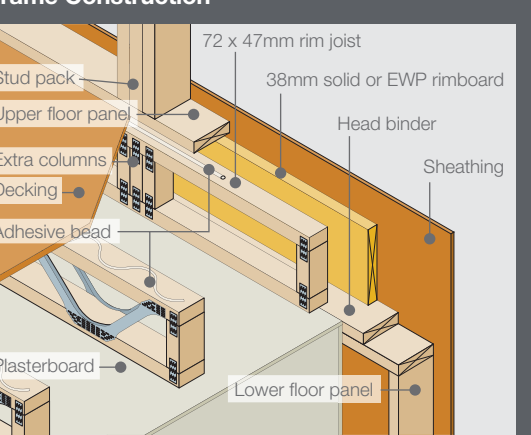
T12 • Top Chord Support with Double Rimboard



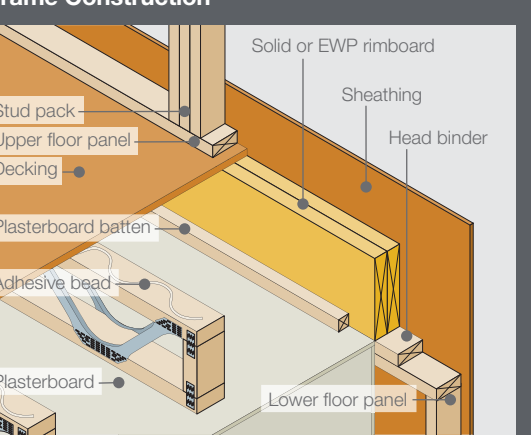
T13 • Top Chord Support on Ring Beam



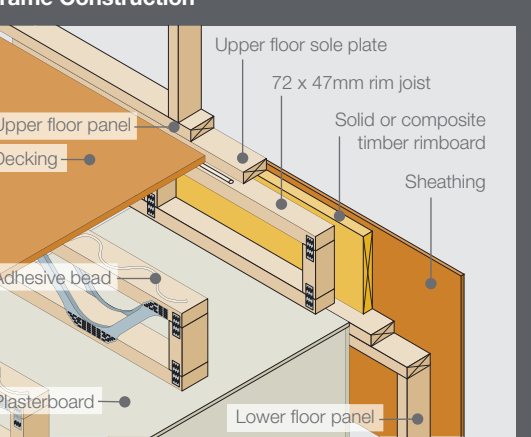
T14 • Proposed Arrangement for Timber Frame Construction



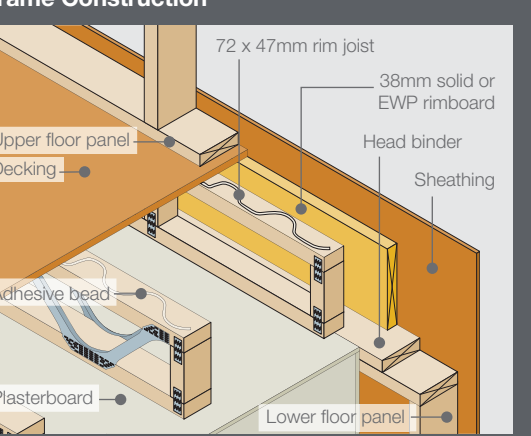
T15 • Proposed Arrangement for Timber Frame Construction



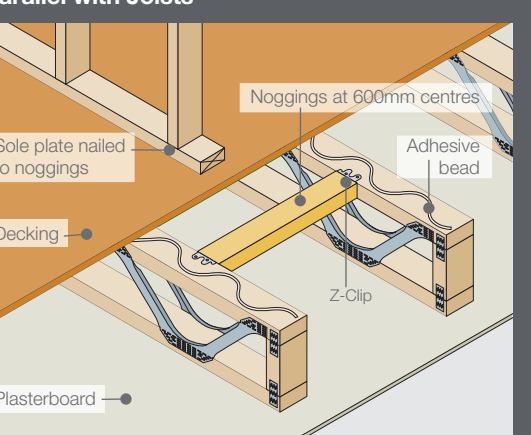
T16 • General Arrangement for Timber Frame Construction



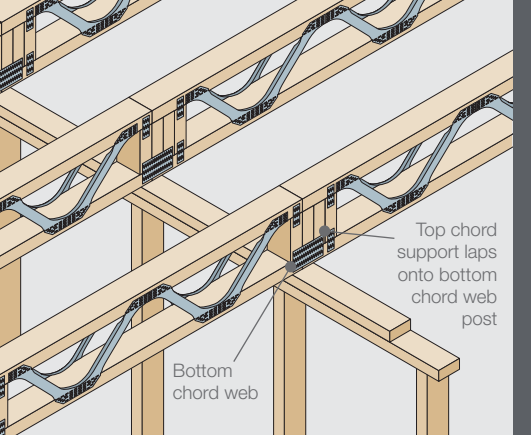
T17 • Proposed Arrangement for Timber Frame Construction



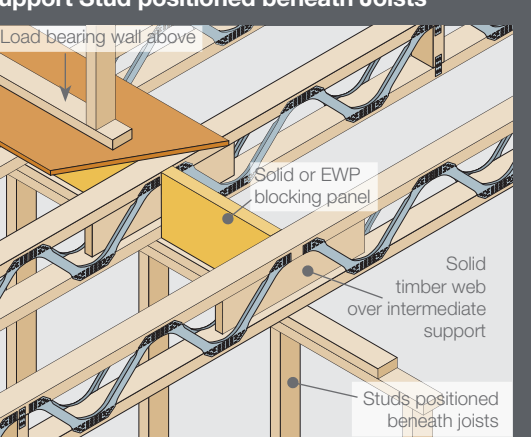
T18 • Non-Load Bearing Wall Support Parallel with Joists



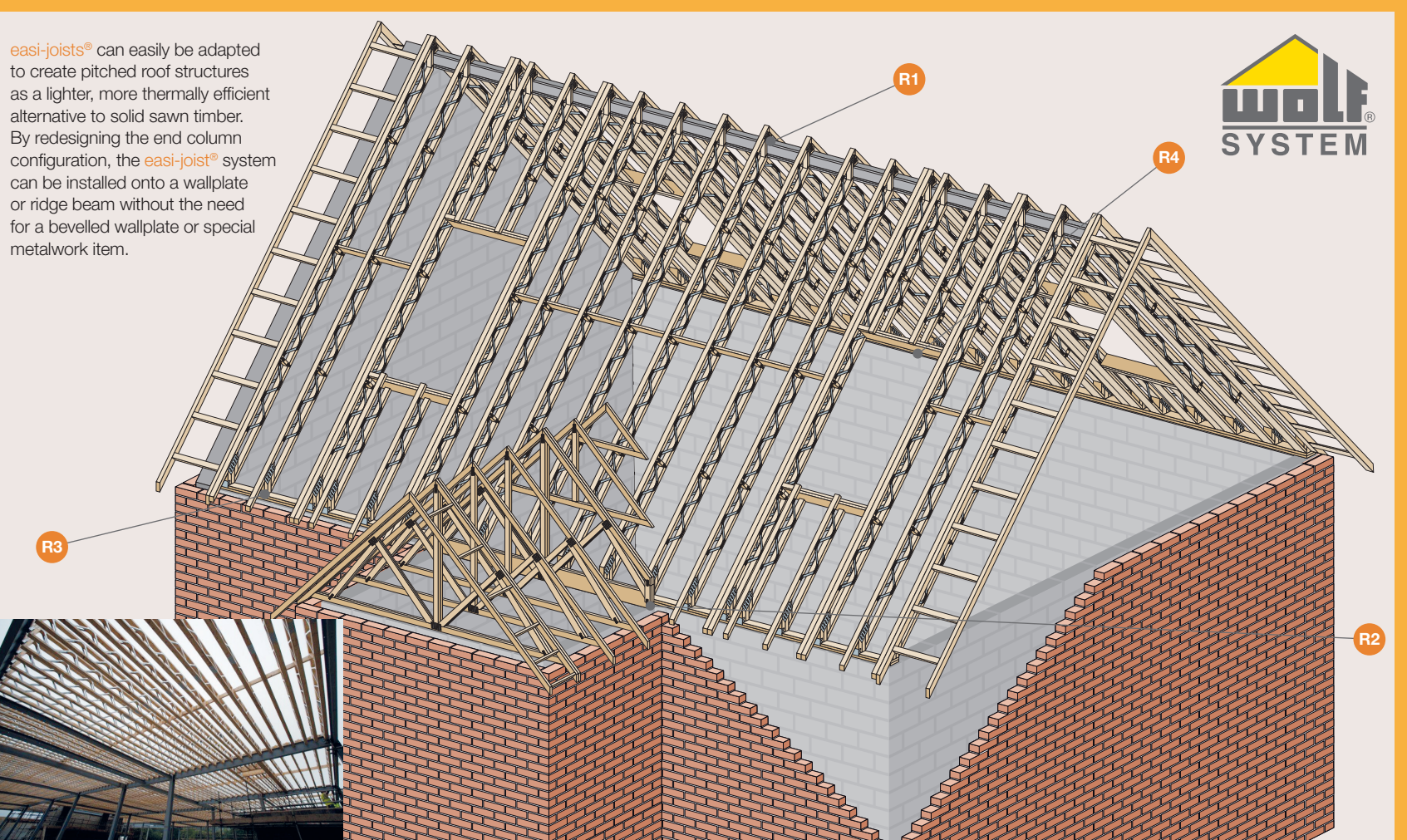
T19 • Internal Wall Lap Support



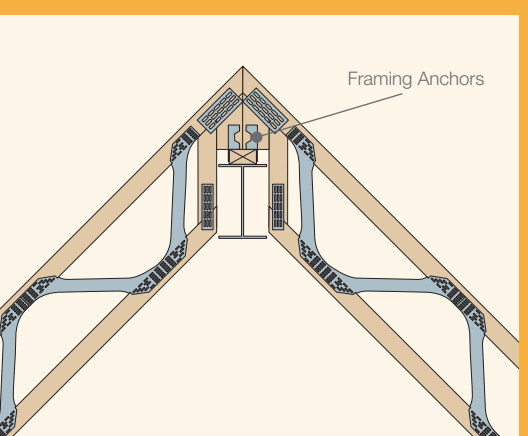
T20 • Solid Timber Web over Intermediate Support Stud positioned beneath Joists



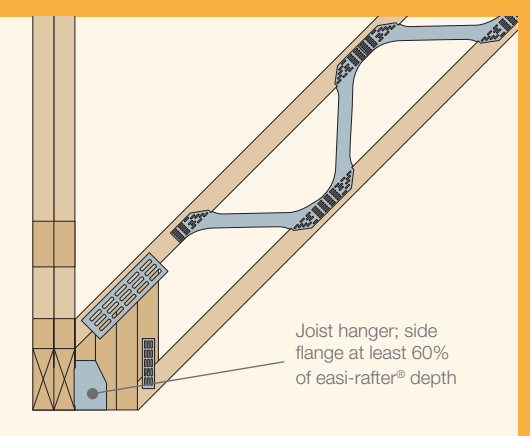
easi-rafter® DETAILS



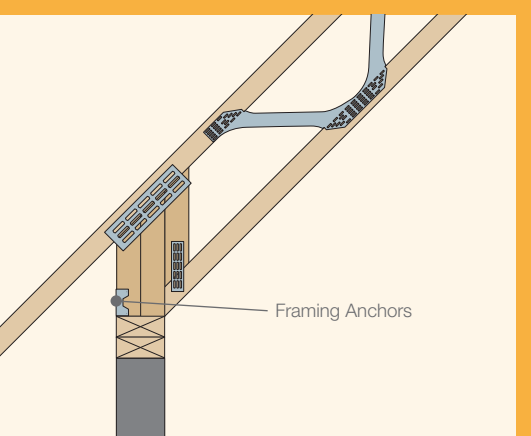
R1 • easi-rafter® Ridge Detail



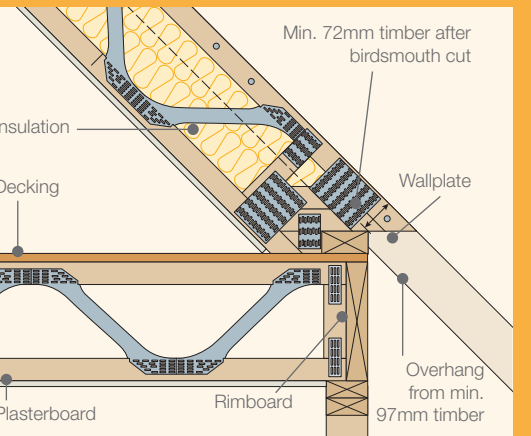
R2 • easi-rafter® Hanger Detail



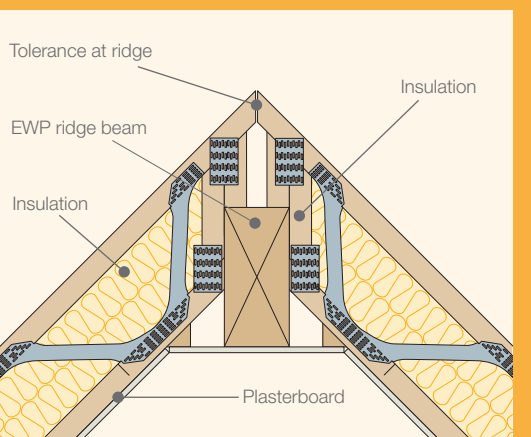
R3 • Typical easi-rafter® Heel



R6 • Typical Eaves Detail



R5 • Typical Rafter Detail



R4 • easi-rafter® Opening

