



The e-stick Roof Installation Guide

for carpenters and builders to correctly install Wesbeam e-stick LVL roof framing products

- roof battens for sheet roofs,
- underpurlins and
- struts.

nail it once, nail it right!

Thank you for choosing e-stick from Wesbeam.

e-stick LVL products have been designed and engineered to replace timber roof framing components such as MGP pine, Douglas Fir and unseasoned or seasoned hardwood.

Wesbeam e-stick roofing products are easier to use than traditional materials.

The construction techniques you will use are similar to those you are used to, but when you're working with e-stick, there are a few things to note.

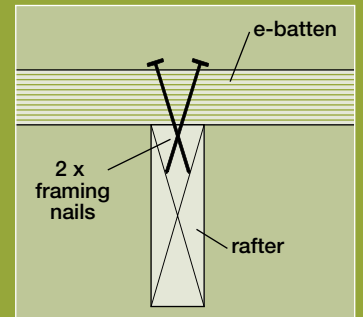
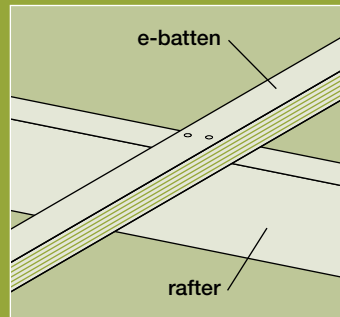
In compliance with ASA1684.

The information in this brochure must be read in conjunction with AS1684 – the Australian Standard for residential timber-framed construction. The building practices listed in AS1684 are the minimum requirements for the placement and fixing of the various structural elements of timber roof framing; either solid sawn timber or e-stick LVL roof framing components.

The information for fixing e-stick LVL components is provided to ensure carpenters and builders use the e-stick LVL components in the correct orientation and fix the e-stick LVL in the correct manner.

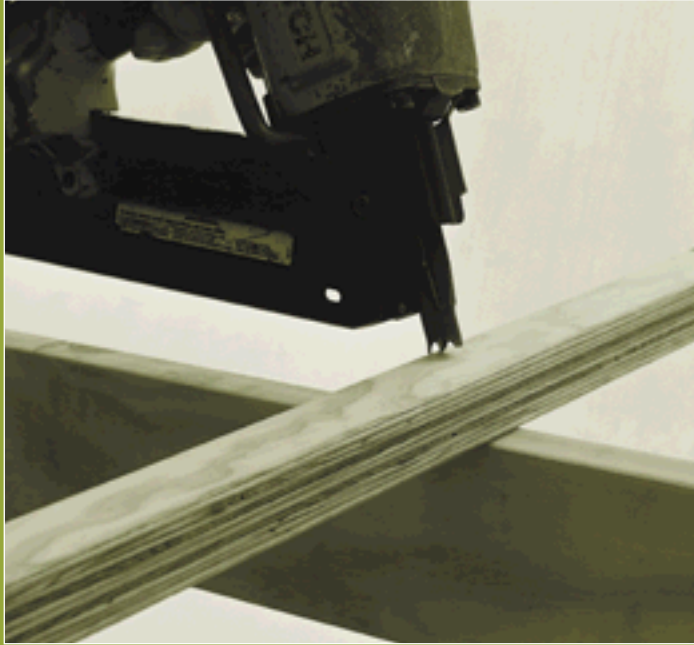
e-batten

The veneers that make up an e-batten are horizontal, so e-batten should be installed as a "flat" product.



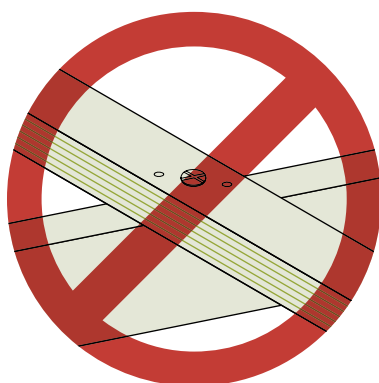
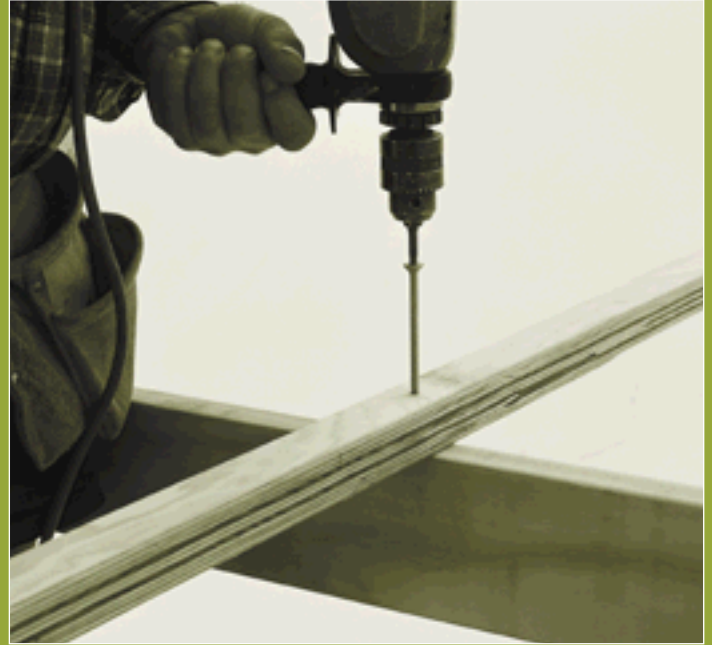
Using nails.

If you fix e-battens to rafters with min. 2 x 3.15mm \emptyset framing nails, position the nails along the rafter centreline. Skew drive the nails into the rafter.



Using screws.

If you use single Type 17 screws to fix e-battens to rafters, position the screws at the intersection of the batten and rafter centrelines.



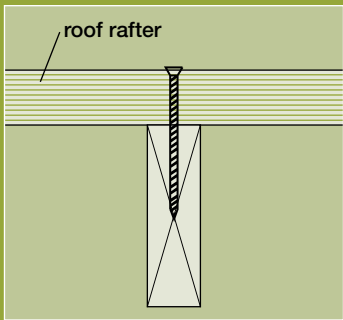
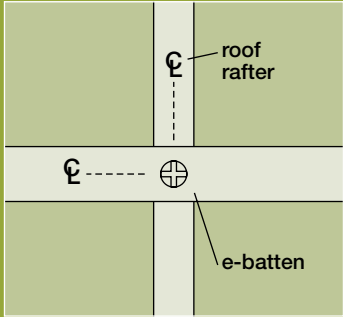
e-batten is designed to be fixed to the roof rafters with **either** 2 x 3.15mm \emptyset framing nails or a single Type 17 screw.

DO NOT use a mix of nails and screws.

The builder should confirm with the Local Council or Building Authority which batten fixing system (nail or screw) is recommended for the building location.

e-batten to Hip Rafters

Fix the e-batten to the rafters then fix the e-batten to the hip e-batten with 2 x 3.15mmø framing nails.

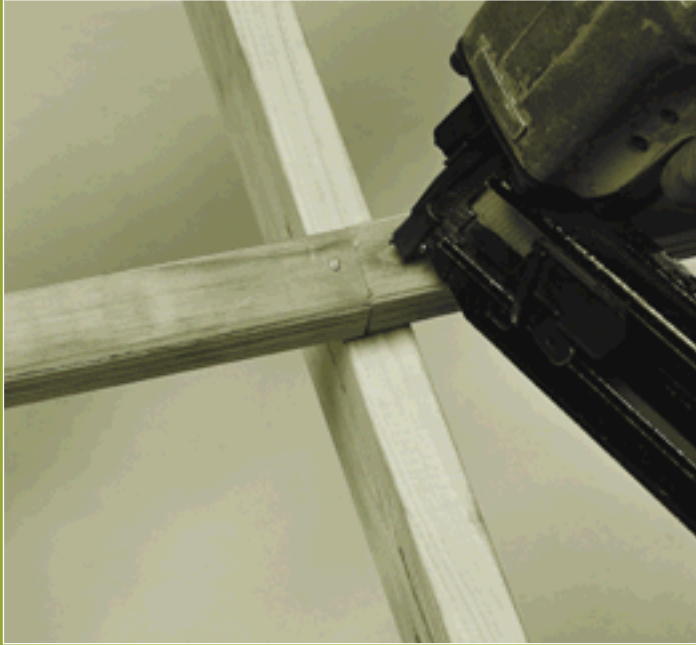


e-batten to Valley Rafters

Fix the valley e-batten to the rafters then fix the e-batten to the valley e-batten with 2 x 3.15mmø framing nails

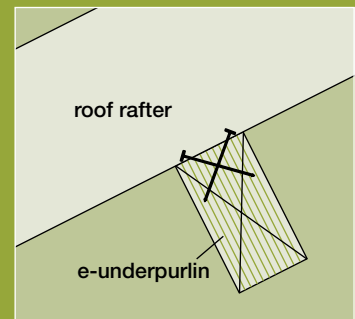
Joining e-batten over Rafters

The e-batten join should be on the centreline of the rafter and either nail or screw fixed to the rafter.



Rafter to e-underpurlin

Fix rafters to e-purlins with minimum 2 x 3.15mmø framing nails; use one nail each side of the rafter.



The nail fixings must be skewed through the rafter into the e-purlin across the direction of the veneers.

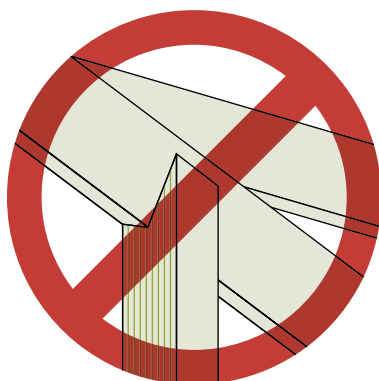
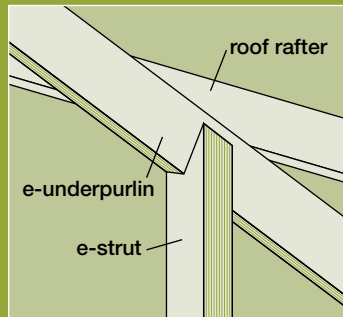
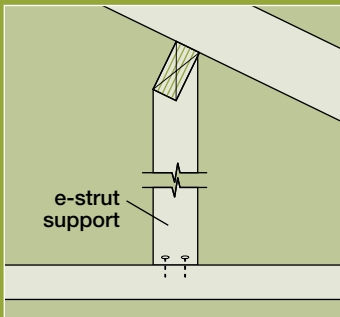
DO NOT nail-fix the rafter to the underpurlin with the nails parallel to the direction of the LVL veneers.

Vertical e-struts Cut the birdsmouth in the e-strut across the LVL veneers.

Fix e-struts to e-purlins with min. 2 x 3.15mmØ framing nails.

The nail fixings must be skewed through the e-strut into the e-purlin across the direction of the veneers

Vertical e-struts must be fixed to the e-strut support (wall plate, roof beam etc) with min. 4 x 3.15mmØ framing nails fixed through the face of the e-strut.



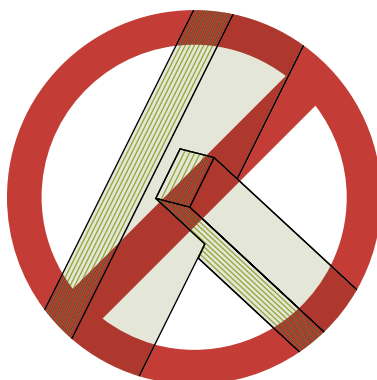
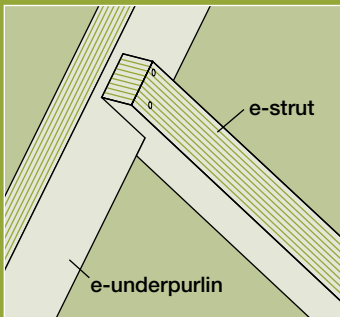
DO NOT cut the birdsmouth in the direction of the LVL veneers.

e-struts
perpendicular
to Rafters

Cut the birdsmouth in the e-strut across
the LVL veneers

Nail fixings must be skewed through
the e-strut into the e-purlin across the
direction of the veneers.

Fix e-struts to e-purlins with minimum
2 x 3.15mmØ framing nails.

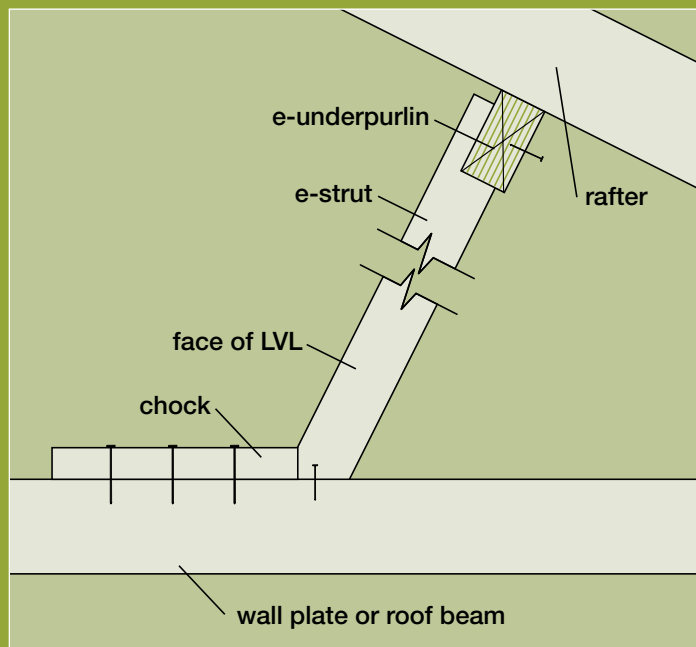


DO NOT cut the
birds-mouth in the
direction of the LVL
veneers.

Fix the bottom of the e-strut to the support with 2 x 3.15mmØ framing nails driven through the face of the e-strut,

Any e-struts that are not vertical must be restrained by blocks or chocks.

Fix the timber chock to the supporting member with 3 x 3.15mmØ framing nails.



Sales & Marketing Manager

T (08) 9306 0409

E wesbeam@wesbeam.com

F (08) 9306 0444

Technical Manager

T (08) 9306 0408

E wesbeam@wesbeam.com

F (08) 9306 0444

PO Box 217

Wanneroo, WA 6946

190 Pederick Road

Neerabup, WA 6031

Australia

