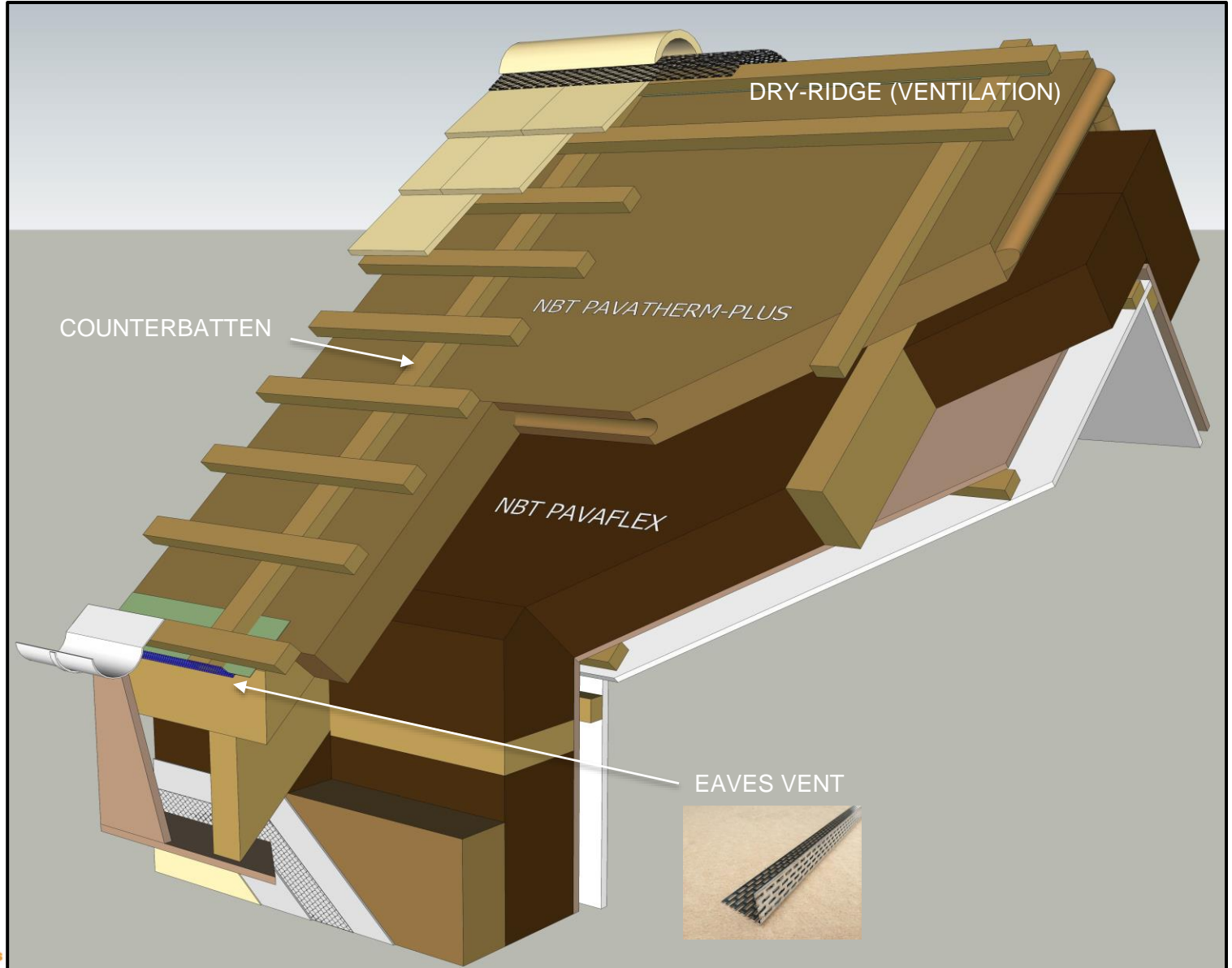
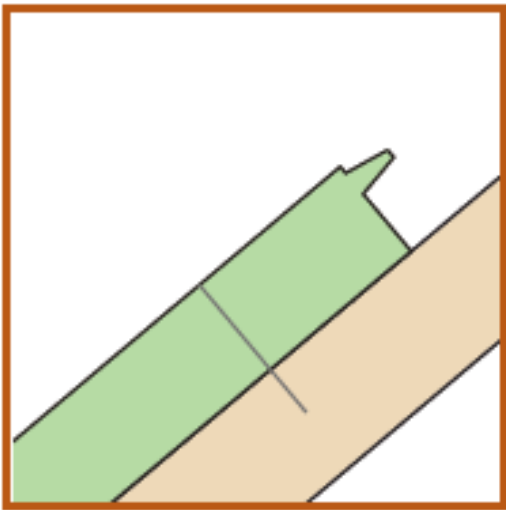
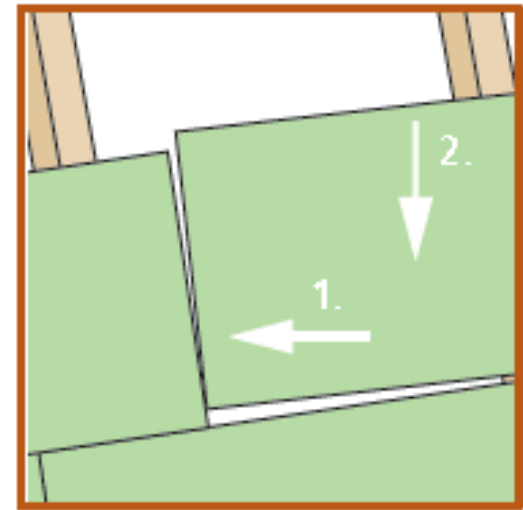


System for Roof Pitched

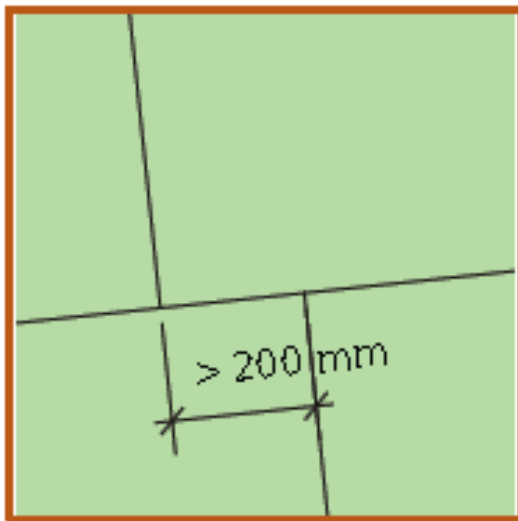




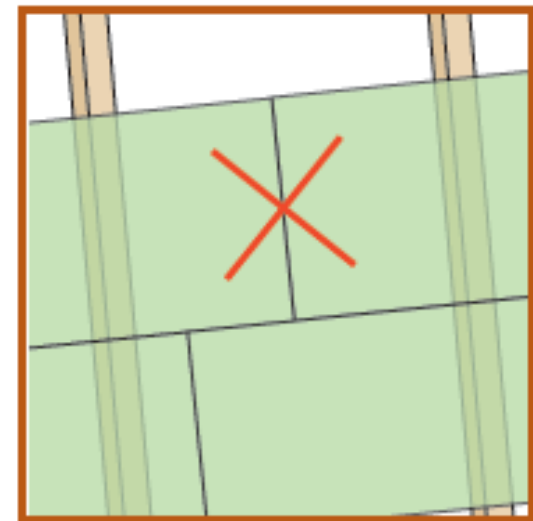
Fix initial course or sprocket
(Offset T&G towards top surface)



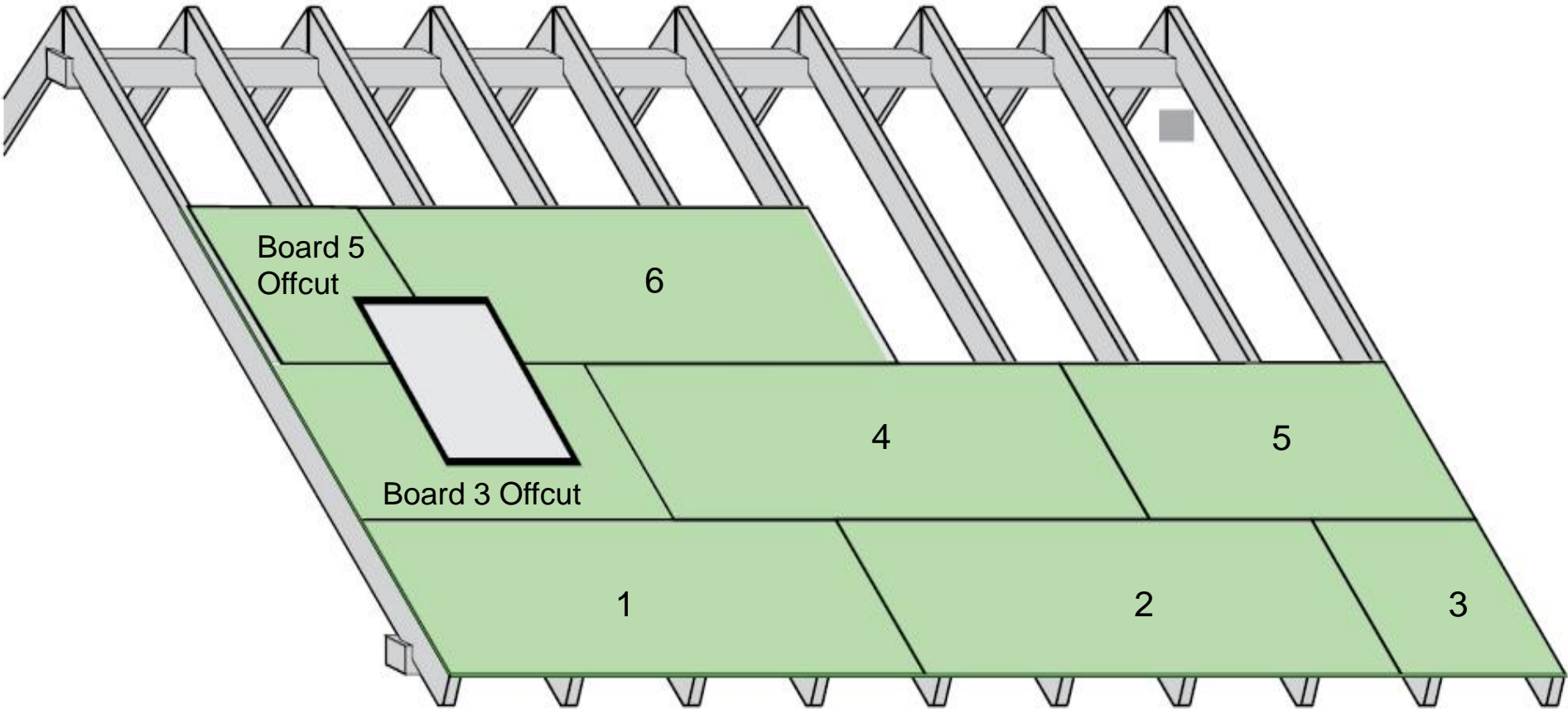
Tightly butt together
to engage T&G



Minimum stagger – use
skill saw **with extraction**
for board cuts



Stagger to avoid joints in
same rafter space for
adjacent courses





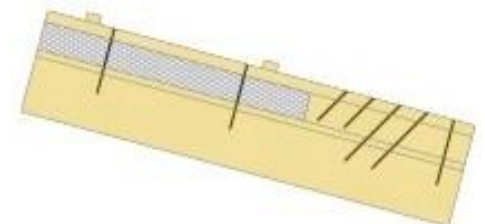
Natural
Building
Technologies

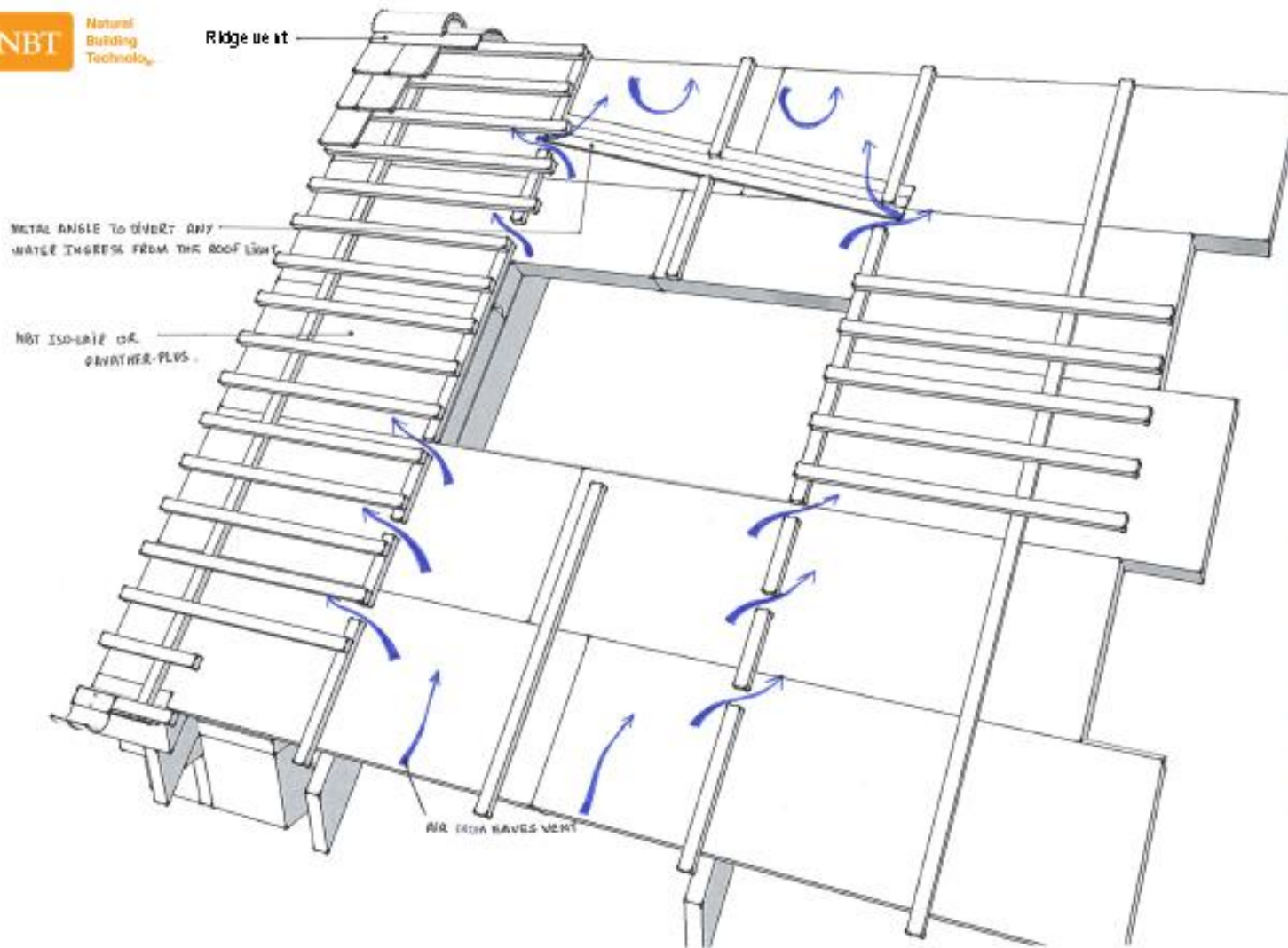
Final fix through counter-batten

| Fixing Centres | Fixings per m ² according to rafter centres | | | | |
|----------------|--|------|------|------|------|
| | 400 | 600 | 800 | 1000 | 1200 |
| 100 | 25.0 | 16.7 | 12.5 | 10.0 | 8.3 |
| 125 | 20.0 | 13.3 | 10.0 | 8.0 | 6.7 |
| 150 | 16.7 | 11.1 | 8.3 | 6.7 | 5.6 |
| 175 | 14.3 | 9.5 | 7.1 | 5.7 | 4.8 |
| 200 | 12.5 | 8.3 | 6.3 | 5.0 | 4.2 |
| 225 | 11.1 | 7.4 | 5.6 | 4.4 | 3.7 |
| 250 | 10.0 | 6.7 | 5.0 | 4.0 | 3.3 |
| 275 | 9.1 | 6.1 | 4.5 | 3.6 | 3.0 |
| 300 | 8.3 | 5.6 | 4.2 | 3.3 | 2.8 |
| 325 | 7.7 | 5.1 | 3.8 | 3.1 | 2.6 |
| 350 | 7.1 | 4.8 | 3.6 | 2.9 | 2.4 |
| 375 | 6.7 | 4.4 | 3.3 | 2.7 | 2.2 |
| 400 | 6.3 | 4.2 | 3.1 | 2.5 | 2.1 |
| 425 | 5.9 | 3.9 | 2.9 | 2.4 | 2.0 |
| 450 | 5.6 | 3.7 | 2.8 | 2.2 | 1.9 |
| 475 | 5.3 | 3.5 | 2.6 | 2.1 | 1.8 |
| 500 | 5 | 3.3 | 2.5 | 2.0 | 1.7 |

| Board | Board Thickness | Counter-batten thickness | Fixing length (perpendicular to board) | Sliding load fixing length (fixings @60°) |
|--------------------------|-----------------|--------------------------|--|---|
| Isolair | 20 | 25 | 90 | 100 |
| | | 38 | 100 | 120 |
| | | 50 | 110 | 130 |
| | 35 | 25 | 100 | 120 |
| | | 38 | 110 | 130 |
| | | 50 | 130 | 150 |
| Isolair / Pavatherm Plus | 60 | 25 | 130 | 150 |
| | | 38 | 140 | 160 |
| | | 50 | 150 | 170 |
| Pavatherm Plus | 80 | 25 | 150 | 170 |
| | | 38 | 160 | 180 |
| | | 50 | 170 | 200 |
| | 100 | 25 | 170 | 200 |
| | | 38 | 180 | 210 |
| | | 50 | 190 | 220 |
| | 120 | 25 | 190 | 220 |
| | | 38 | 200 | 230 |
| | | 50 | 210 | 240 |

Determine fixing numbers per m² according to site specific conditions - (BS 5534: 2014 and BS EN 1991-1-4: 2005). Numbers in light green boxes are the most common requirements for pricing purposes. The numbers in darker green is NBT's standard recommendation for EJOT TKR 4.8 fixings with 40mm embedment for roof pitch < 60° on buildings <2 storeys, subjected to wind speed < 26m/s, and dead load of roof covering <95kg/m² using perpendicular screws only. If using a combination of fixings perpendicular to the board and at 60° for sliding load, numbers per m² will be lower than standard as this method delivers a more effective load retention. Sprockets over each rafter end to support sliding load (minimum 2 x angled sliding load fixings plus 2 x suction fixings perpendicular per sprocket) will achieve the same result and may be a simpler means of reducing fixing numbers. If using Helifix Inskew 600, please contact the manufacturer for a calculation.





NBT ROOF LIGHT _ VENT DETAIL

ALTERNATIVE - Use Tile vents at the base and top of roof light window

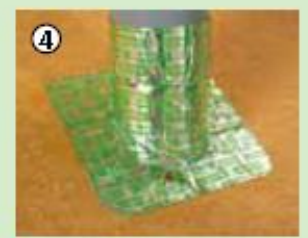


Eaves Vents -



See Technical Manual, Specification Clauses and Catalogue of Standard Detail Drawings for more information

Sealing Weathertight



All **non** T&G joints: Junctions with roof-lights, verge etc; over eaves tray, damaged areas of boards, exposed board edges, penetrations, and ridge (membrane stop as alternative).

PAVABASE

Solvent-free standard primer for PAVATAPE



PAVATAPE 75 / 150

Butyl rubber tape for sealing PAVATEX-boards



PAVATAPE FLEX

Elastic butyl rubber tape for sealing PAVATEX-boards and -membranes at penetrations

