

# 50 Double Roman Eaves.

## Standard CAD Details



RedVent Eaves Ventilation Pack, (10002799) for rafter centres up to 450mm,  
(10002800) for rafter centres up to 600mm.

RedVent Eaves Extension Pack, (10002831) for rafter centres up to 450mm,  
(10002832) for rafter centres up to 600mm.

uPVC Extension Tray

Trays overlap

uPVC Eaves Ventilator Tray

50 x 25mm S.W. tiling batten

BMI Redland Underlay

Redland Double Roman Tile (10003045) fixed:  
with 60 x 3.35mm Aluminium Alloy Tile Nail  
(20001173); and with Eaves Clip (20001164)  
with provided 100 x 3.75mm aluminium alloy  
clout nail through RedVent

PVC apron

uPVC Fascia Grille Unit  
nailed into fascia board

Eaves ventilator  
tray skirt  
dressed into  
gutter

19mm thick fascia board  
fixed 25mm above top of  
rafters

Trussed Rafter

**345 REDVENT EAVES (COLD) (NAILED and CLIPPED)**

- \* Ensure that top of 19mm thick fascia board is fixed 25mm above top of rafters.
- \* Fix RedVent Packs continuously to ensure ventilation is not blocked. Before fixing, ensure that mineral fibre quilt is laid between rafters, over and behind the wallplate.
- Use Eaves Ventilation Pack, (10002799) for rafter centres up to 450mm, (10002800) for rafter centres up to 600mm.
- Use Eaves Extension Pack (1 row), (10002831) for rafter centres up to 450mm, (10002832) for rafter centres up to 600mm.
- \* Lay BMI Redland Underlay over PVC apron from top centre of uPVC Fascia Grille Units, ensuring that grille is clear.
- \* Fix all tiles in the eaves course with tails projecting 50mm over gutter. 50mm measured from fascia, to leading edge on top surface of tile at bottom of pan.
- \* Fix all tiles in the eaves course: with 60 x 3.35mm Aluminium Alloy Tile Nails 20001173; and with eaves clips (20001164) with provided 100 x 3.75mm aluminium alloy clout nails through RedVent.

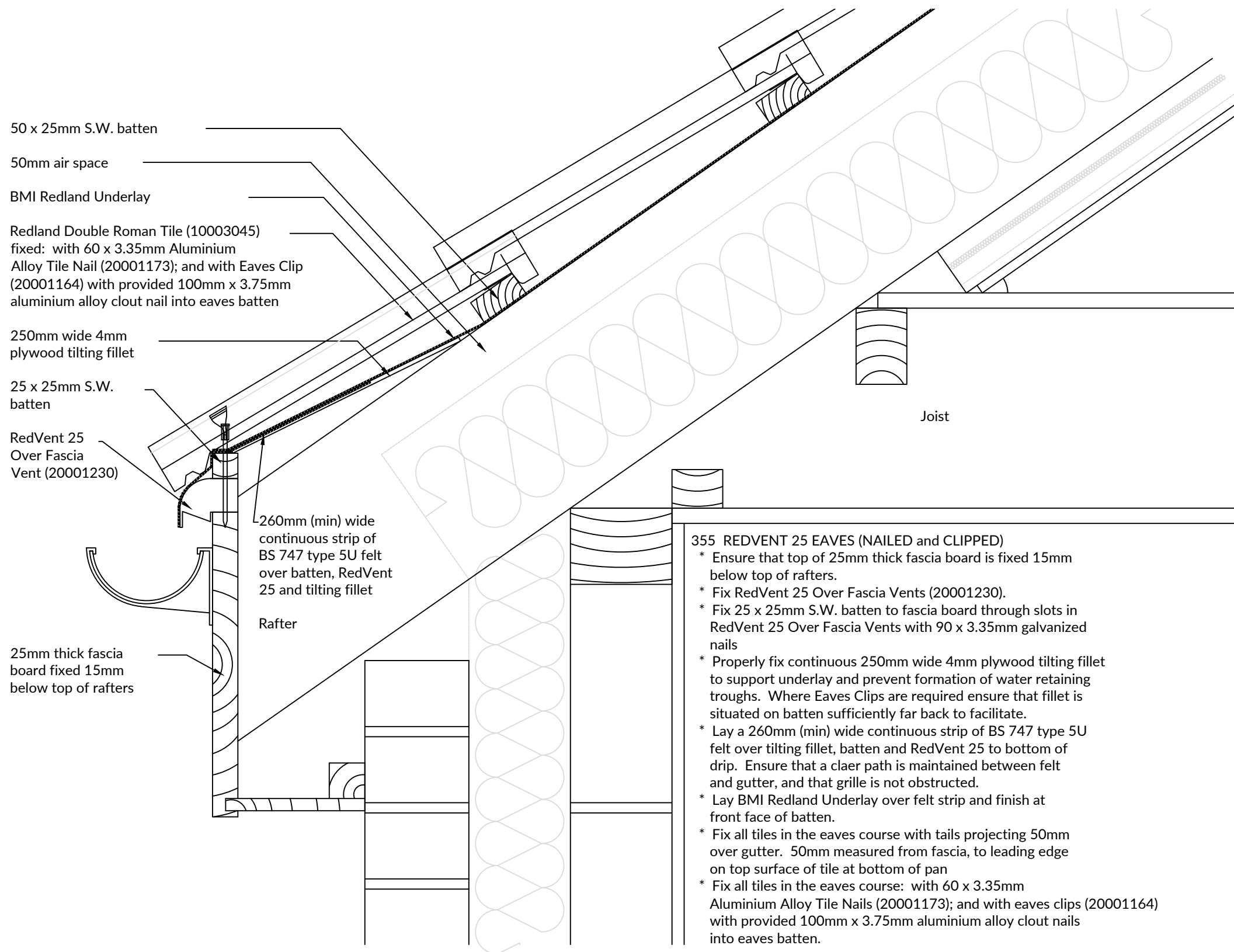


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<b>Drawing Title:</b>	Redvent Eaves (Cold) (Nailed and Clipped)				
<b>System:</b>	50 Double Roman / Redvent Eaves				
<b>Dwg. No:</b>	DR35EVE1	<b>Date:</b>	18 May 2022	<b>Scale</b>	NTS

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**355 REDVENT 25 EAVES (NAILED and CLIPPED)**

- \* Ensure that top of 25mm thick fascia board is fixed 15mm below top of rafters.
- \* Fix RedVent 25 Over Fascia Vents (20001230).
- \* Fix 25 x 25mm S.W. batten to fascia board through slots in RedVent 25 Over Fascia Vents with 90 x 3.35mm galvanized nails
- \* Properly fix continuous 250mm wide 4mm plywood tilting fillet to support underlay and prevent formation of water retaining troughs. Where Eaves Clips are required ensure that fillet is situated on batten sufficiently far back to facilitate.
- \* Lay a 260mm (min) wide continuous strip of BS 747 type 5U felt over tilting fillet, batten and RedVent 25 to bottom of drip. Ensure that a clear path is maintained between felt and gutter, and that grille is not obstructed.
- \* Lay BMI Redland Underlay over felt strip and finish at front face of batten.
- \* Fix all tiles in the eaves course with tails projecting 50mm over gutter. 50mm measured from fascia, to leading edge on top surface of tile at bottom of pan
- \* Fix all tiles in the eaves course: with 60 x 3.35mm Aluminium Alloy Tile Nails (20001173); and with eaves clips (20001164) with provided 100mm x 3.75mm aluminium alloy clout nails into eaves batten.

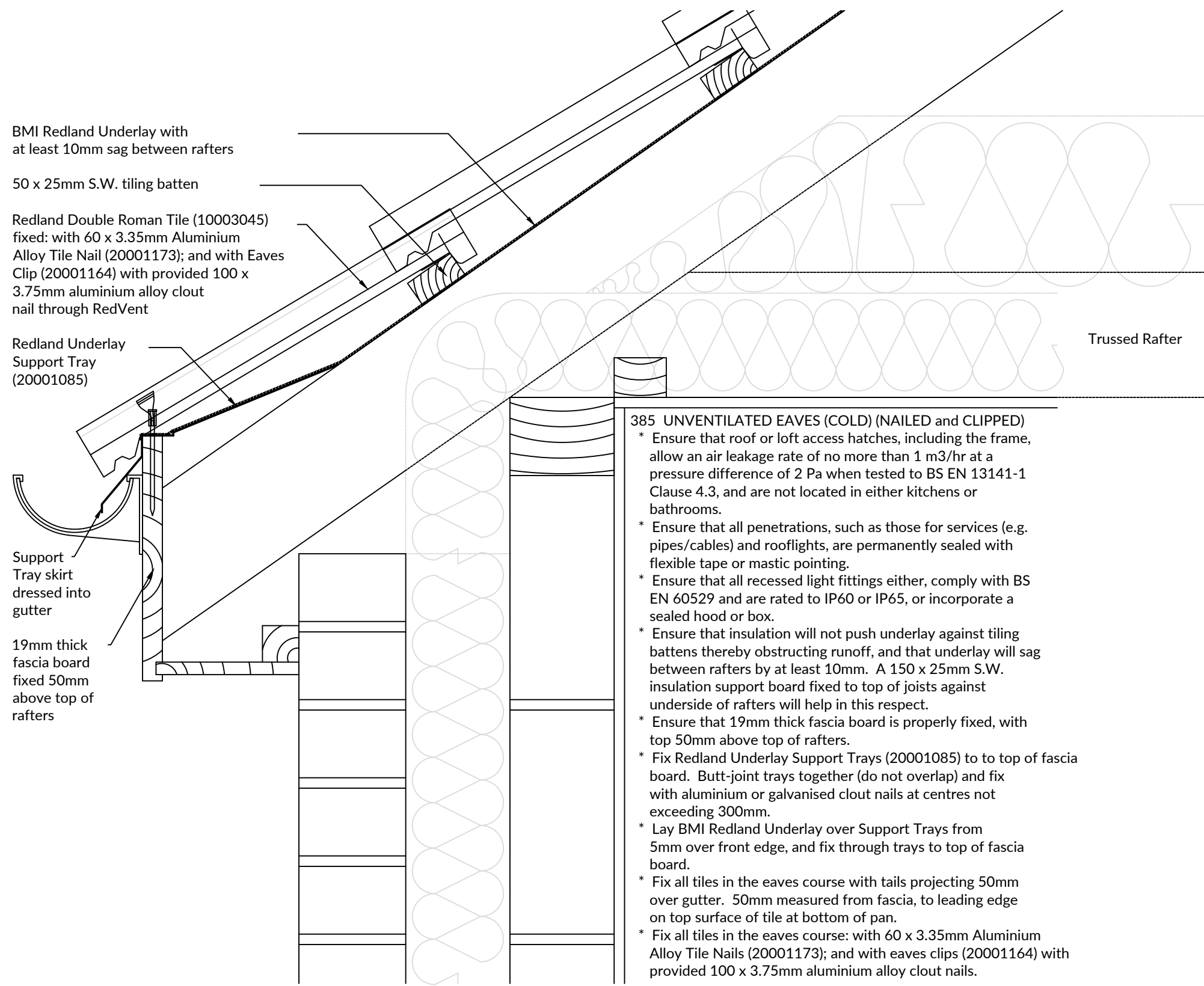


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<b>Drawing Title:</b>	Redvent 25 Eaves (Nailed and Clipped)				
<b>System:</b>	50 Double Roman / Redvent 25				
<b>Dwg. No:</b>	DR35EVE2	<b>Date:</b>	18 May 2022	<b>Scale</b>	NTS

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BMI Redland Underlay with at least 10mm sag between rafters

50 x 25mm S.W. tiling batten

Redland Double Roman Tile (10003045) fixed: with 60 x 3.35mm Aluminium Alloy Tile Nail (20001173); and with Eaves Clip (20001164) with provided 100 x 3.75mm aluminium alloy clout nail through RedVent

Redland Underlay Support Tray (20001085)

Support Tray skirt dressed into gutter

19mm thick fascia board fixed 50mm above top of rafters

Trussed Rafter

**385 UNVENTILATED EAVES (COLD) (NAILED and CLIPPED)**

- \* Ensure that roof or loft access hatches, including the frame, allow an air leakage rate of no more than 1 m<sup>3</sup>/hr at a pressure difference of 2 Pa when tested to BS EN 13141-1 Clause 4.3, and are not located in either kitchens or bathrooms.
- \* Ensure that all penetrations, such as those for services (e.g. pipes/cables) and rooflights, are permanently sealed with flexible tape or mastic pointing.
- \* Ensure that all recessed light fittings either, comply with BS EN 60529 and are rated to IP60 or IP65, or incorporate a sealed hood or box.
- \* Ensure that insulation will not push underlay against tiling battens thereby obstructing runoff, and that underlay will sag between rafters by at least 10mm. A 150 x 25mm S.W. insulation support board fixed to top of joists against underside of rafters will help in this respect.
- \* Ensure that 19mm thick fascia board is properly fixed, with top 50mm above top of rafters.
- \* Fix Redland Underlay Support Trays (20001085) to top of fascia board. Butt-joint trays together (do not overlap) and fix with aluminium or galvanised clout nails at centres not exceeding 300mm.
- \* Lay BMI Redland Underlay over Support Trays from 5mm over front edge, and fix through trays to top of fascia board.
- \* Fix all tiles in the eaves course with tails projecting 50mm over gutter. 50mm measured from fascia, to leading edge on top surface of tile at bottom of pan.
- \* Fix all tiles in the eaves course: with 60 x 3.35mm Aluminium Alloy Tile Nails (20001173); and with eaves clips (20001164) with provided 100 x 3.75mm aluminium alloy clout nails.

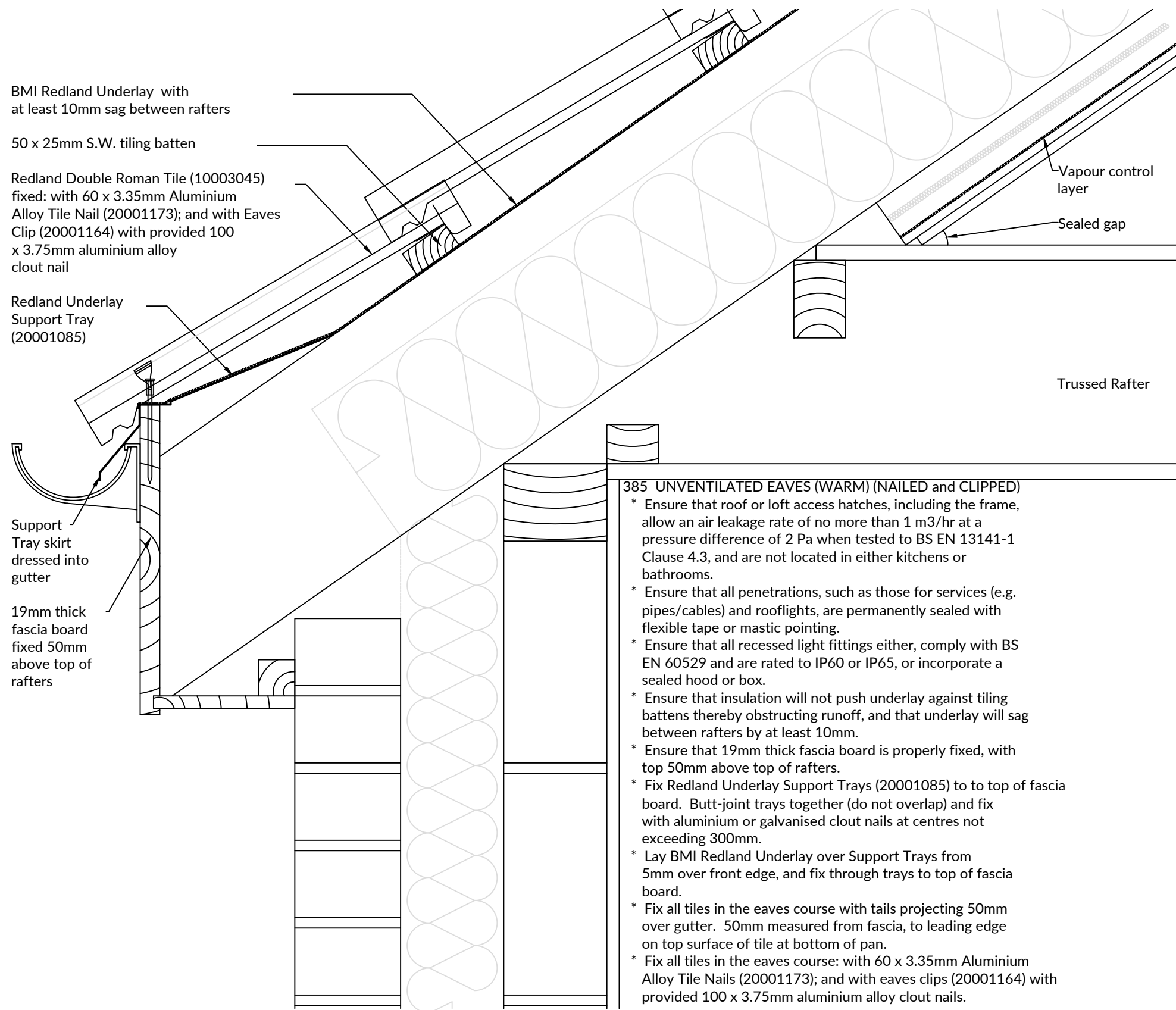


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<b>Drawing Title:</b>	Unventilated Eaves (Cold) (Nailed and Clipped)				
<b>System:</b>	50 Double Roman				
<b>Dwg. No:</b>	DR35EVE3	<b>Date:</b>	18 May 2022	<b>Scale</b>	NTS

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<b>Drawing Title:</b>	Unventilated Eaves (Warm) (Nailed and Clipped)				
<b>System:</b>	50 Double Roman				
<b>Dwg. No:</b>	DR35EVE4	<b>Date:</b>	18 May 2022	<b>Scale:</b>	NTS

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Redland RedVent Eaves Ventilation Pack, (10002799) for rafter centres up to 450mm, (10002800) for rafter centres up to 600mm.

Redland RedVent Eaves Extension Pack, (10002831) for rafter centres up to 450mm, (10002832) for rafter centres up to 600mm.

uPVC Extension Tray

Trays overlap

50 x 25mm S.W. batten

uPVC Eaves Ventilator Tray

BMI Redland Underlay

Redland Double Roman Tile (10003045) fixed: with 60 x 3.35mm aluminium alloy Tile Nail (20001173); and with Eaves Clip (20001164) with provided 100mm x 3.75mm aluminium alloy clout nail through RedVent

PVC apron

uPVC Fascia Grille Unit nailed into fascia board

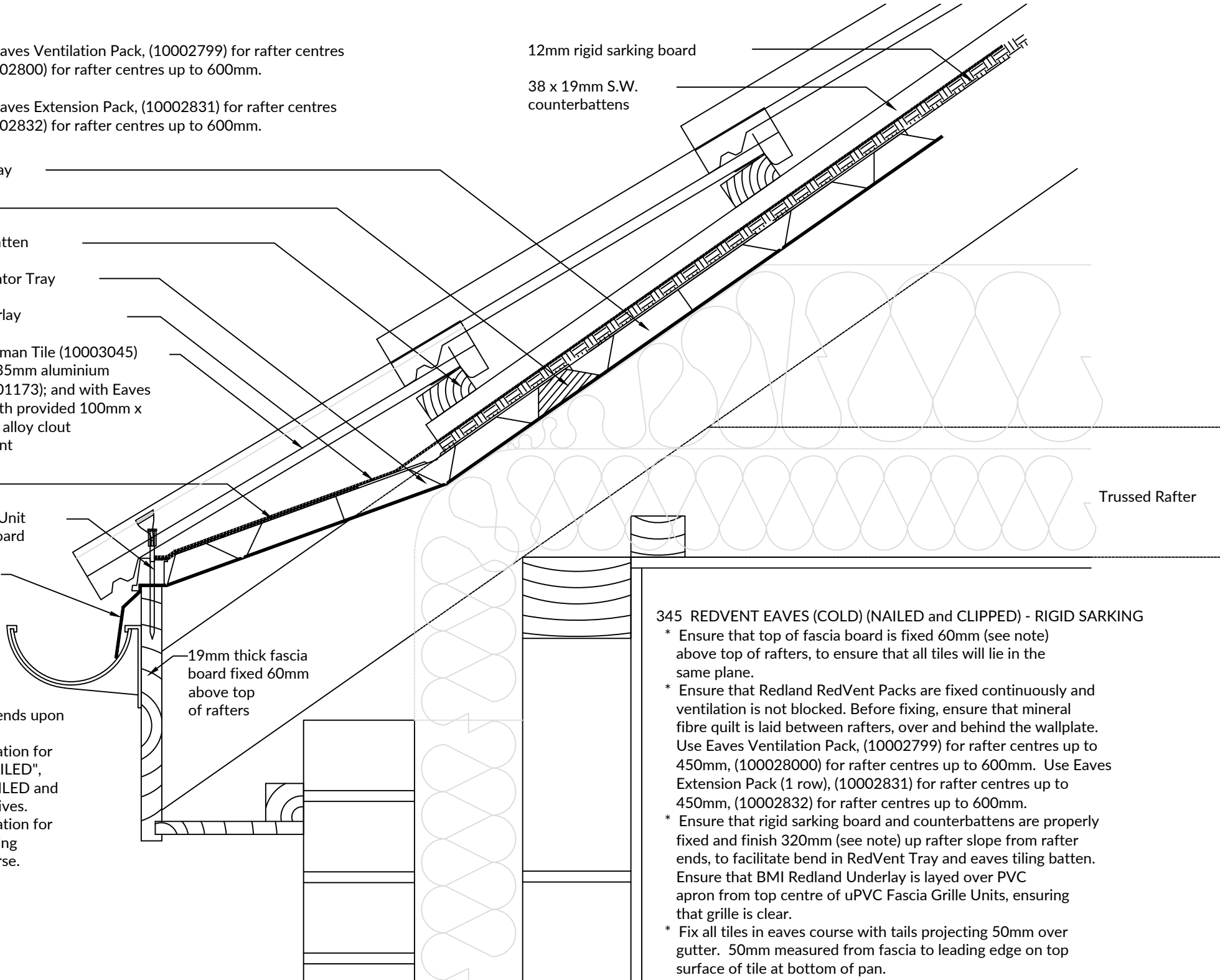
Eaves ventilator tray skirt dressed into gutter

**FIXING:** - Fixing method depends upon exposure. See Fixing Specification for correct use of "NAILED", "CLIPPED" or "NAILED and CLIPPED" alternatives. See Fixing Specification for correct general fixing beyond eaves course.

12mm rigid sarking board

38 x 19mm S.W. counterbattens

Trussed Rafter



**345 REDVENT EAVES (COLD) (NAILED and CLIPPED) - RIGID SARKING**

- \* Ensure that top of fascia board is fixed 60mm (see note) above top of rafters, to ensure that all tiles will lie in the same plane.
- \* Ensure that Redland RedVent Packs are fixed continuously and ventilation is not blocked. Before fixing, ensure that mineral fibre quilt is laid between rafters, over and behind the wallplate. Use Eaves Ventilation Pack, (10002799) for rafter centres up to 450mm, (10002800) for rafter centres up to 600mm. Use Eaves Extension Pack (1 row), (10002831) for rafter centres up to 450mm, (10002832) for rafter centres up to 600mm.
- \* Ensure that rigid sarking board and counterbattens are properly fixed and finish 320mm (see note) up rafter slope from rafter ends, to facilitate bend in RedVent Tray and eaves tiling batten. Ensure that BMI Redland Underlay is laid over PVC apron from top centre of uPVC Fascia Grille Units, ensuring that grille is clear.
- \* Fix all tiles in eaves course with tails projecting 50mm over gutter. 50mm measured from fascia to leading edge on top surface of tile at bottom of pan.
- \* Fix all tiles in the eaves course: with 60mm x 3.35mm Aluminium Alloy Tile Nails (20001173); and with eaves clips (20001164) with Provided 100mm x 3.75mm aluminium alloy clout nails through RedVent.

**NOTE:** - Dimensions marked "(see note)" are specific for roofs with overall sarking/counterbatten thickness of 31mm, and headlap of 75mm



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<b>Drawing Title:</b>	Redvent Eaves (Cold) (Nailed and Clipped) - Sarking				
<b>System:</b>	50 Double Roman / Redvent Eaves				
<b>Dwg. No:</b>	DR35EVK1	<b>Date:</b>	18 May 2022	<b>Scale</b>	NTS

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12mm rigid sarking board

38 x 19mm S.W. counterbattens

50 x 25mm S.W. batten

BMI Redland Underlay

Redland Double Roman Tile (10003045)  
fixed: with 60 x 3.35 Aluminium Alloy  
Clout Nail (20001173); and with Eaves Clip  
(20001164) with provided 100mm x 3.75mm  
aluminium alloy clout nail into eaves batten

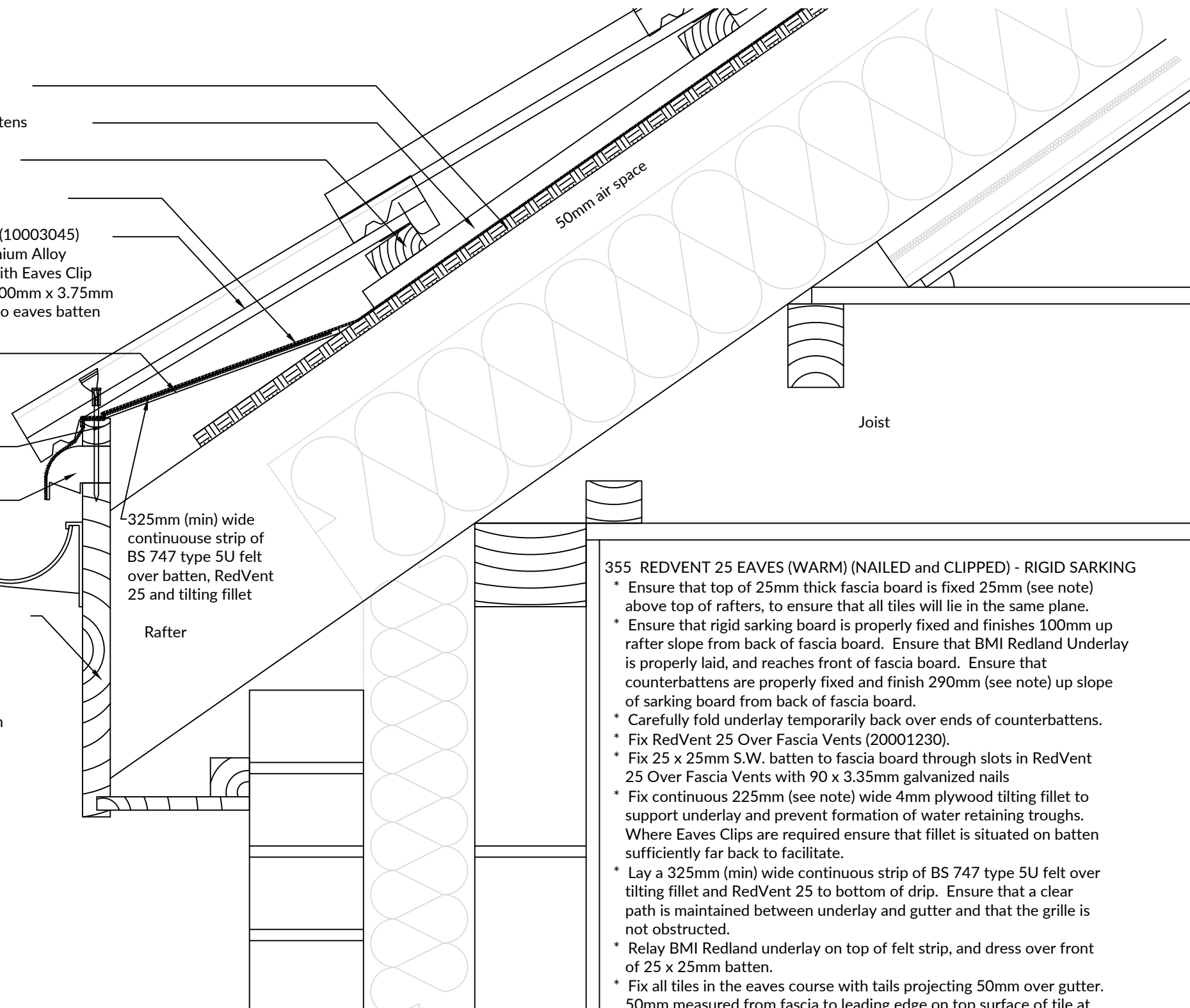
225mm (see note)  
wide 4mm plywood  
tilting fillet

25 x 25mm  
S.W. batten

RedVent 25  
Over Fascia  
Vent (20001230)

25mm thick fascia board  
fixed 25mm (see note)  
above top of rafters

**FIXING:** -  
Fixing method depends upon  
exposure.  
See Fixing Specification for  
correct use of "NAILED",  
"CLIPPED" or "NAILED and  
CLIPPED" alternatives.  
See Fixing Specification for  
correct general fixing  
beyond eaves course.



**NOTE:** - Dimensions marked "(see note)" are  
specific for roofs with overall sarking/counterbatten\*  
thickness of 31mm, and headlap of 75mm

**355 REDVENT 25 EAVES (WARM) (NAILED and CLIPPED) - RIGID SARKING**

- \* Ensure that top of 25mm thick fascia board is fixed 25mm (see note) above top of rafters, to ensure that all tiles will lie in the same plane.
- \* Ensure that rigid sarking board is properly fixed and finishes 100mm up rafter slope from back of fascia board. Ensure that BMI Redland Underlay is properly laid, and reaches front of fascia board. Ensure that counterbattens are properly fixed and finish 290mm (see note) up slope of sarking board from back of fascia board.
- \* Carefully fold underlay temporarily back over ends of counterbattens.
- \* Fix RedVent 25 Over Fascia Vents (20001230).
- \* Fix 25 x 25mm S.W. batten to fascia board through slots in RedVent 25 Over Fascia Vents with 90 x 3.35mm galvanized nails
- \* Fix continuous 225mm (see note) wide 4mm plywood tilting fillet to support underlay and prevent formation of water retaining troughs. Where Eaves Clips are required ensure that fillet is situated on batten sufficiently far back to facilitate.
- \* Lay a 325mm (min) wide continuous strip of BS 747 type 5U felt over tilting fillet and RedVent 25 to bottom of drip. Ensure that a clear path is maintained between underlay and gutter and that the grille is not obstructed.
- \* Relay BMI Redland underlay on top of felt strip, and dress over front of 25 x 25mm batten.
- \* Fix all tiles in the eaves course with tails projecting 50mm over gutter. 50mm measured from fascia to leading edge on top surface of tile at bottom of pan.
- \* Fix all tiles in the eaves course: with 60 x 3.35 Aluminium Alloy Clout Nails (20001173); and with Eaves Clips (20001164) with provided 100mm x 3.75mm aluminium alloy clout nails into eaves batten.

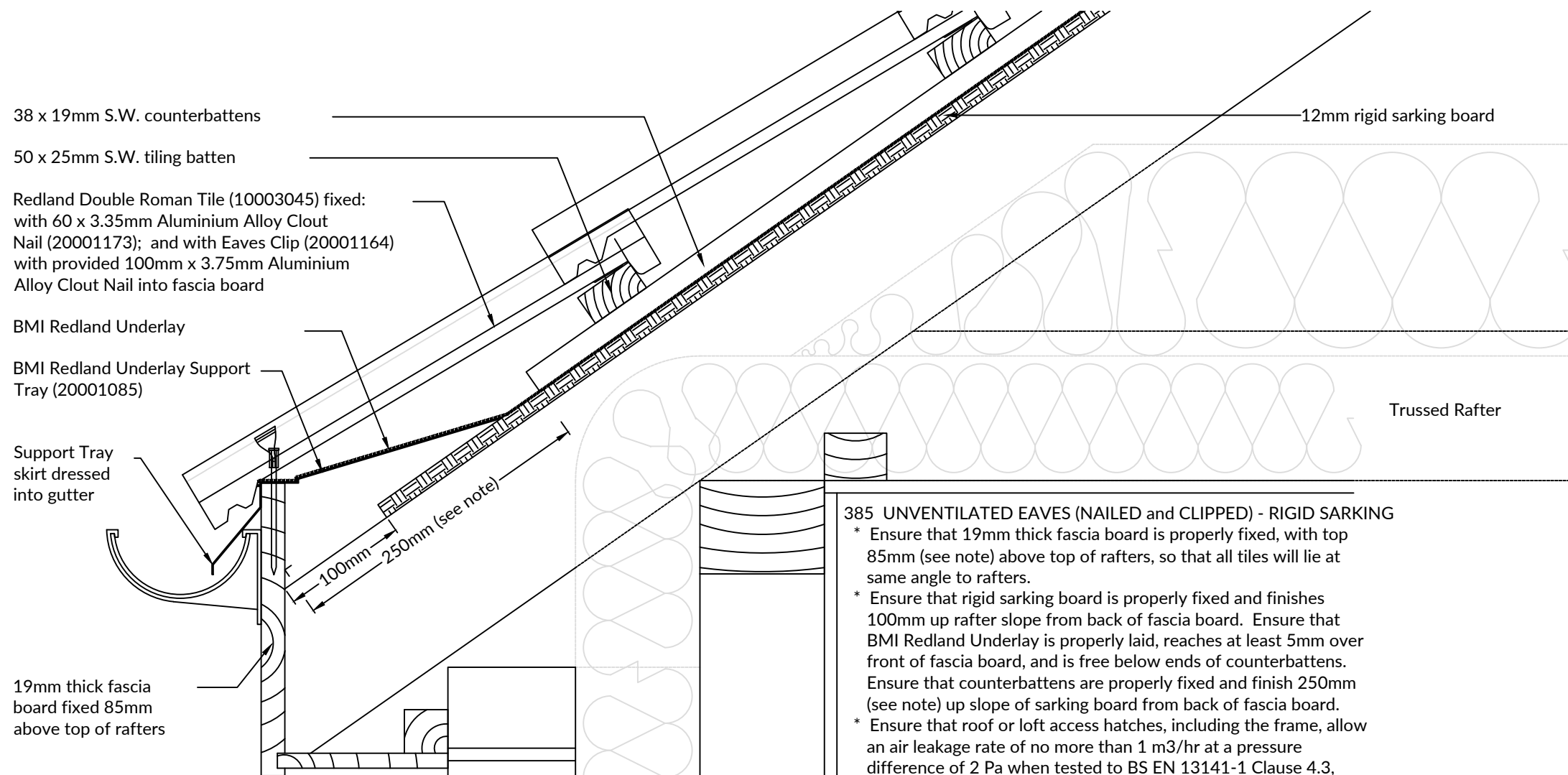


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<b>Drawing Title:</b>	Redvent 25 Eaves (Nailed and Clipped) - Sarking				
<b>System:</b>	50 Double Roman / Redvent 25				
<b>Dwg. No:</b>	DR35EVK2	<b>Date:</b>	18 May 2022	<b>Scale:</b>	NTS

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38 x 19mm S.W. counterbattens

50 x 25mm S.W. tiling batten

Redland Double Roman Tile (10003045) fixed:  
with 60 x 3.35mm Aluminium Alloy Clout  
Nail (20001173); and with Eaves Clip (20001164)  
with provided 100mm x 3.75mm Aluminium  
Alloy Clout Nail into fascia board

BMI Redland Underlay

BMI Redland Underlay Support  
Tray (20001085)

Support Tray  
skirt dressed  
into gutter

19mm thick fascia  
board fixed 85mm  
above top of rafters

12mm rigid sarking board

Trussed Rafter

**NOTES: -**

Dimensions marked "(see note)" are specific for roofs with overall sarking/ counterbatten thickness of 31mm, and tile headlap of 75mm.  
Unventilated Eaves: Rigid sarking must be laid with 2mm gaps at intervals not exceeding 150mm. Ceiling must be sealed as described above. Otherwise - eaves must include at least 10mm ventilation.

**FIXING: -**  
Fixing method depends upon exposure.  
See Fixing Specification for correct use of "NAILED", "CLIPPED" or "NAILED and CLIPPED" alternatives.  
See Fixing Specification for correct general fixing beyond eaves course.

**385 UNVENTILATED EAVES (NAILED and CLIPPED) - RIGID SARKING**

- \* Ensure that 19mm thick fascia board is properly fixed, with top 85mm (see note) above top of rafters, so that all tiles will lie at same angle to rafters.
- \* Ensure that rigid sarking board is properly fixed and finishes 100mm up rafter slope from back of fascia board. Ensure that BMI Redland Underlay is properly laid, reaches at least 5mm over front of fascia board, and is free below ends of counterbattens. Ensure that counterbattens are properly fixed and finish 250mm (see note) up slope of sarking board from back of fascia board.
- \* Ensure that roof or loft access hatches, including the frame, allow an air leakage rate of no more than 1 m<sup>3</sup>/hr at a pressure difference of 2 Pa when tested to BS EN 13141-1 Clause 4.3, and are not located in either kitchens or bathrooms.
- \* Ensure that all penetrations, such as those for services (e.g. pipes/cables) and rooflights, are permanently sealed with flexible tape or mastic pointing.
- \* Ensure that all recessed light fittings either, comply with BS EN 60529 and are rated to IP60 or IP65, or incorporate a sealed hood or box.
- \* Fold Underlay back over counterbattens and fix Redland Underlay Support Trays (20001085) to top of fascia board. Butt-joint trays together (do not overlap) and fix with aluminium or galvanised clout nails at centres not exceeding 300mm.
- \* Relay Underlay over Support Trays to 5mm over front edge, and fix through trays to top of fascia board.
- \* Fix all tiles in the eaves course with tails projecting 50mm over gutter. 50mm measured from fascia, to leading edge on top surface of tile at bottom of pan.
- \* Fix all tiles in eaves course: with 60 x 3.35mm Aluminium Alloy Clout Nails (20001173); and with Eaves Clips (20001164) with Provided 100mm x 3.75mm Aluminium Alloy Clout Nails into fascia board.



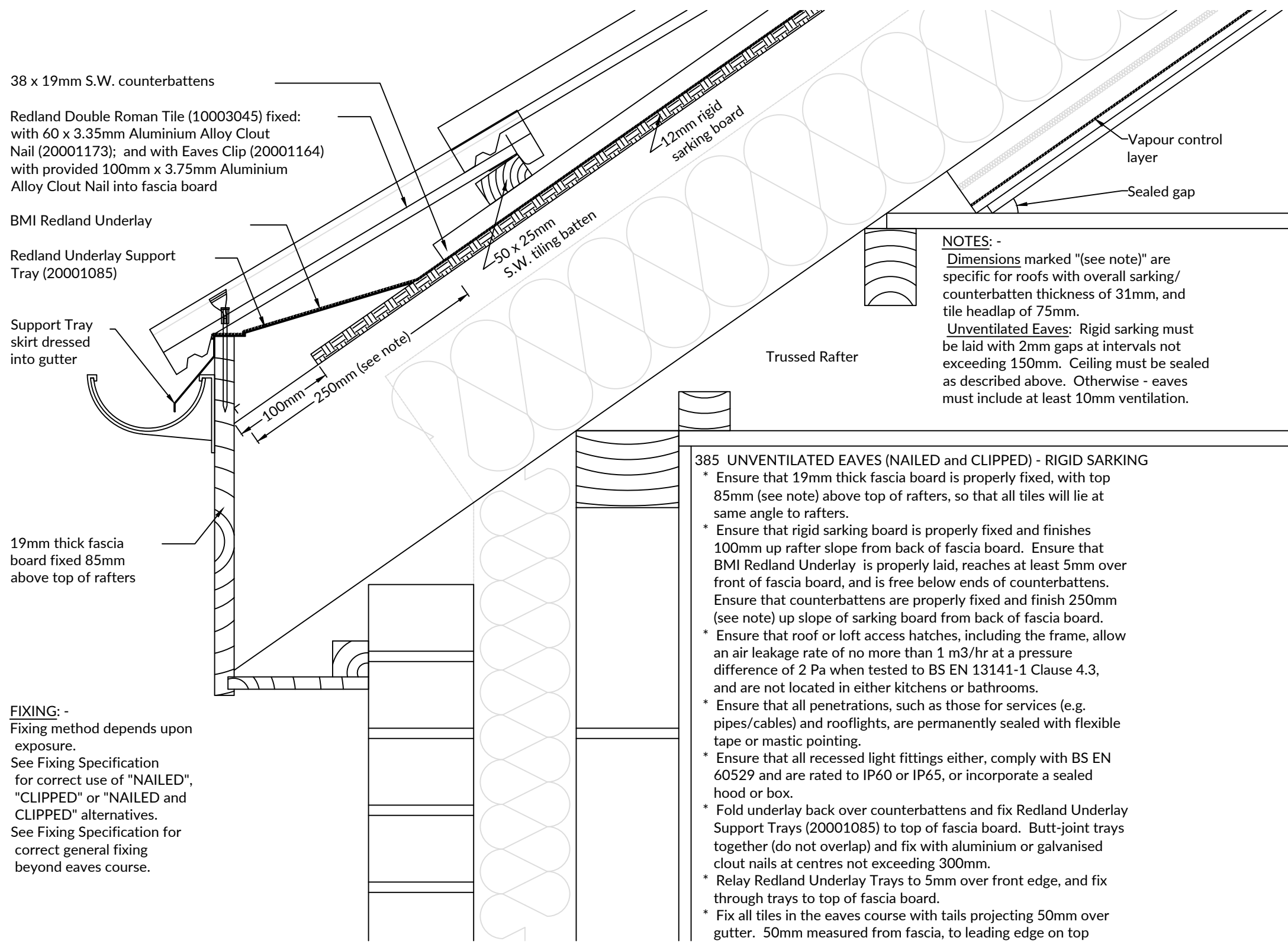
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<b>Drawing Title:</b>	Unventilated Eaves (Cold) (Nailed and Clipped) - Sarking				
<b>System:</b>	50 Double Roman				
<b>Dwg. No:</b>	DR35EVK3	<b>Date:</b>	18 May 2022	<b>Scale</b>	NTS

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38 x 19mm S.W. counterbattens

Redland Double Roman Tile (10003045) fixed: with 60 x 3.35mm Aluminium Alloy Clout Nail (20001173); and with Eaves Clip (20001164) with provided 100mm x 3.75mm Aluminium Alloy Clout Nail into fascia board

BMI Redland Underlay

Redland Underlay Support Tray (20001085)

Support Tray skirt dressed into gutter

19mm thick fascia board fixed 85mm above top of rafters

**FIXING:** -  
Fixing method depends upon exposure.  
See Fixing Specification for correct use of "NAILED", "CLIPPED" or "NAILED and CLIPPED" alternatives.  
See Fixing Specification for correct general fixing beyond eaves course.

**NOTES:** -  
Dimensions marked "(see note)" are specific for roofs with overall sarking/counterbatten thickness of 31mm, and tile headlap of 75mm.  
**Unventilated Eaves:** Rigid sarking must be laid with 2mm gaps at intervals not exceeding 150mm. Ceiling must be sealed as described above. Otherwise - eaves must include at least 10mm ventilation.

**385 UNVENTILATED EAVES (NAILED and CLIPPED) - RIGID SARKING**

- \* Ensure that 19mm thick fascia board is properly fixed, with top 85mm (see note) above top of rafters, so that all tiles will lie at same angle to rafters.
- \* Ensure that rigid sarking board is properly fixed and finishes 100mm up rafter slope from back of fascia board. Ensure that BMI Redland Underlay is properly laid, reaches at least 5mm over front of fascia board, and is free below ends of counterbattens. Ensure that counterbattens are properly fixed and finish 250mm (see note) up slope of sarking board from back of fascia board.
- \* Ensure that roof or loft access hatches, including the frame, allow an air leakage rate of no more than 1 m<sup>3</sup>/hr at a pressure difference of 2 Pa when tested to BS EN 13141-1 Clause 4.3, and are not located in either kitchens or bathrooms.
- \* Ensure that all penetrations, such as those for services (e.g. pipes/cables) and rooflights, are permanently sealed with flexible tape or mastic pointing.
- \* Ensure that all recessed light fittings either, comply with BS EN 60529 and are rated to IP60 or IP65, or incorporate a sealed hood or box.
- \* Fold underlay back over counterbattens and fix Redland Underlay Support Trays (20001085) to top of fascia board. Butt-joint trays together (do not overlap) and fix with aluminium or galvanised clout nails at centres not exceeding 300mm.
- \* Relay Redland Underlay Trays to 5mm over front edge, and fix through trays to top of fascia board.
- \* Fix all tiles in the eaves course with tails projecting 50mm over gutter. 50mm measured from fascia, to leading edge on top surface of tile at bottom of pan.
- \* Fix all tiles in eaves course: with 60 x 3.35mm Aluminium Alloy Clout Nails (20001173); and with Eaves Clips (20001164) with Provided 100mm x 3.75mm Aluminium Alloy Clout Nails into fascia board.



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<b>System:</b>	50 Double Roman				
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