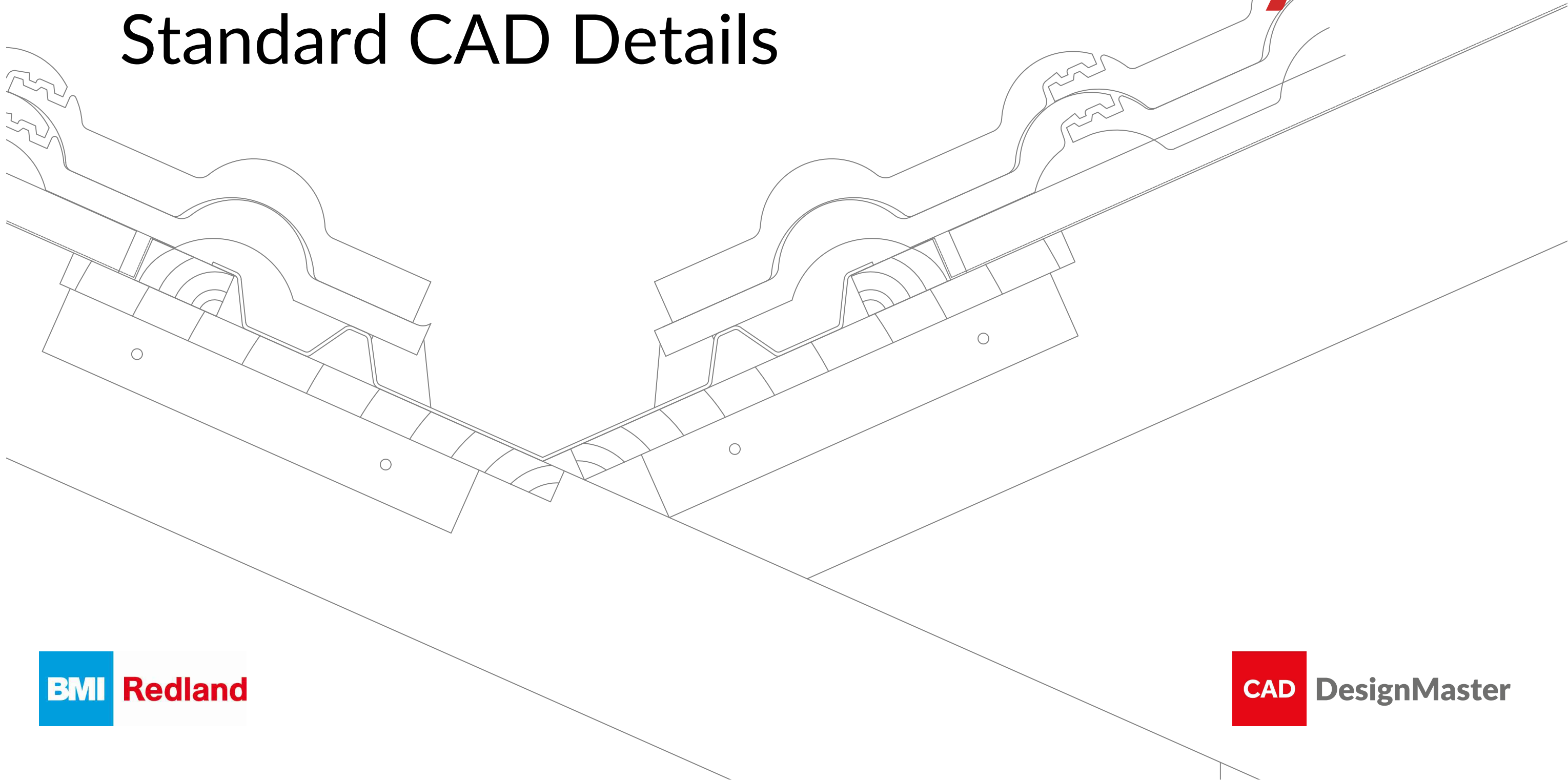


50 Double Roman Valley.

Standard CAD Details



Cement: sharp sand mortar (to comply with tensile bond strength in BS5534) bedding the continuous valley length onto GRP sanded strip

Double Roman Tile (10003045) cut to rake of valley. Must be mechanically fixed

125mm width between vertical faces of valley

50 x 25mm S.W. support batten

Underlay turned up onto support batten

50 x 25mm S.W. batten supported on valley support board

GRP Valley (20001231) nailed to support battens.

19mm timber support board cut between trussed rafters and supported on 25 x 50mm noggins nailed to rafters with 50mm galvanised nails. Top surface of support board must be flush with top of trussed rafters

Trussed rafters

605 GRP VALLEY

- * Ensure that 25 x 50mm noggins are fixed to rafters with 50mm galvanised nails to support 19mm valley boards on each side of valley, and that valley boards are cut between rafters and flush with top of rafters to provide full support for GRP valley.
- * Fix 50 x 25mm raking support battens to valley boards on each side of valley.
- * Cut underlay to rake and dress over support battens. Ensure that underlay is not laid under GRP valley.
- * Fix Redland 125 GRP Valley (20001231) to support battens with 25mm galvanised clout nails.
- * Cut Tiles neatly to form a gap 125mm wide centred on valley. Remove nibs where they foul with valley. Bed on mortar as clause 290 on GRP valley.

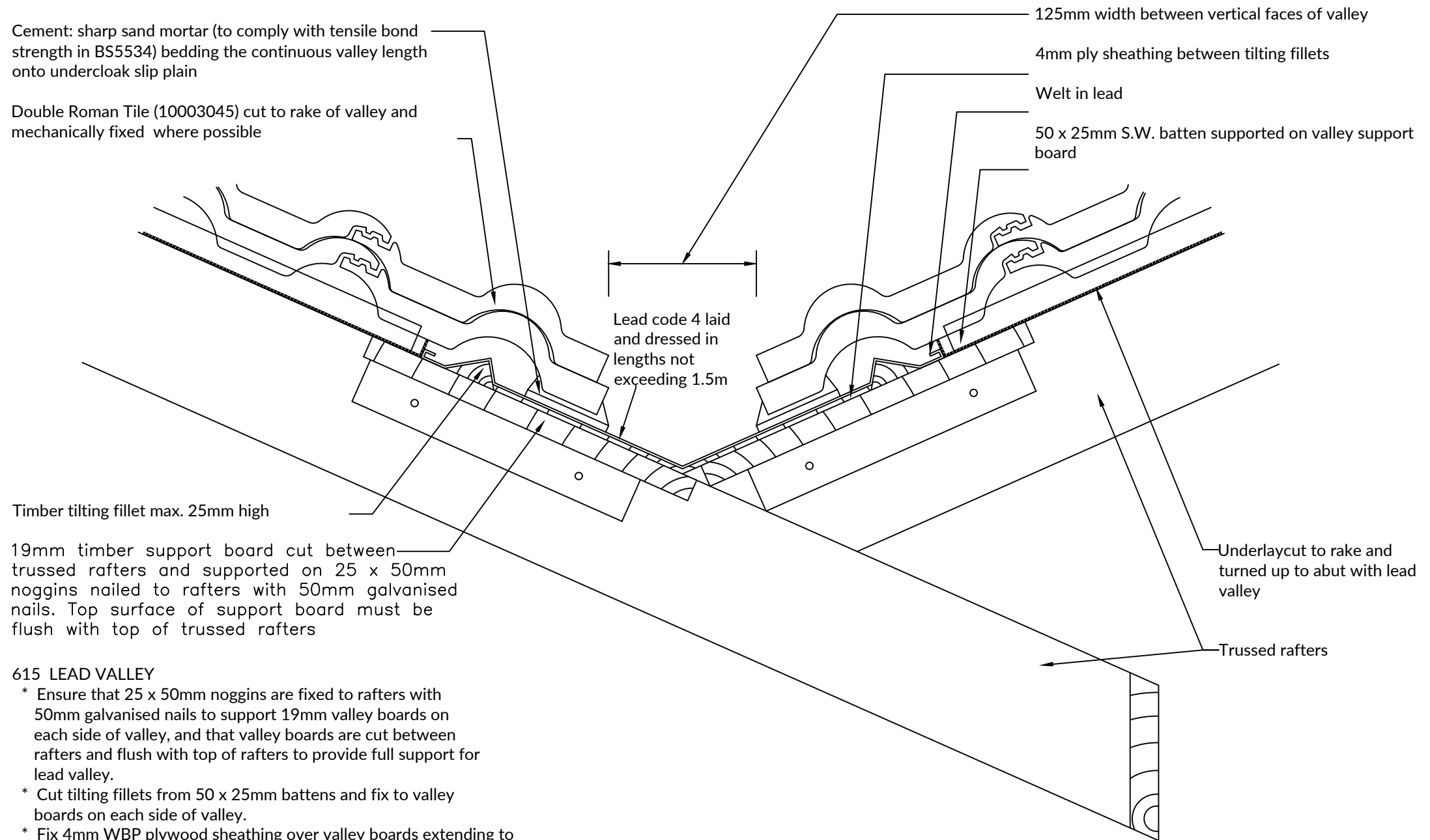
Drawing Title:	GRP Valley				
System:	50 Double Roman / GRP Valley				
Dwg. No:	DR35VLY1	Date:	19 May 2022	Scale	NTS

This drawing has been prepared for general information purposes only. This details drawing is to recommend the correct procedure for installing BMI products. All other building details are indicative and are not to be used for building construction. (Do not scale- use figured dimensions only)



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Timber tilting fillet max. 25mm high

19mm timber support board cut between trussed rafters and supported on 25 x 50mm noggins nailed to rafters with 50mm galvanised nails. Top surface of support board must be flush with top of trussed rafters

615 LEAD VALLEY

- * Ensure that 25 x 50mm noggins are fixed to rafters with 50mm galvanised nails to support 19mm valley boards on each side of valley, and that valley boards are cut between rafters and flush with top of rafters to provide full support for lead valley.
- * Cut tilting fillets from 50 x 25mm battens and fix to valley boards on each side of valley.
- * Fix 4mm WBP plywood sheathing over valley boards extending to abut tilting fillets.
- * Dress code 4 lead with welted edges over and beyond tilting fillets in lengths not exceeding 1500mm, and fix with 25 x 3mm copper clout nails in two rows at 25mm and 50mm from top edge of sheet at 75mm staggered centres .
- * Cut underlay to rake to abut lead valley. Ensure that underlay is not laid under lead.
- * Cut tiles neatly to form a gap 125mm wide centred on valley. Remove nibs where they foul with valley. Bed on mortar as clause 290 on 6mm fibre cement undercloak laid loose on each side of valley.



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Drawing Title:	Lead Valley				
System:	50 Double Roman				
Dwg. No:	DR35VLY2	Date:	19 May 2022	Scale	NTS

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Double Roman Tile (10003045) cut to rake of valley and mechanically fixed where possible

Cement: sharp sand mortar (to comply with tensile bond strength in BS5534) bedding the continuous valley length

Underlay strip at least 600mm wide laid dowl valley boards

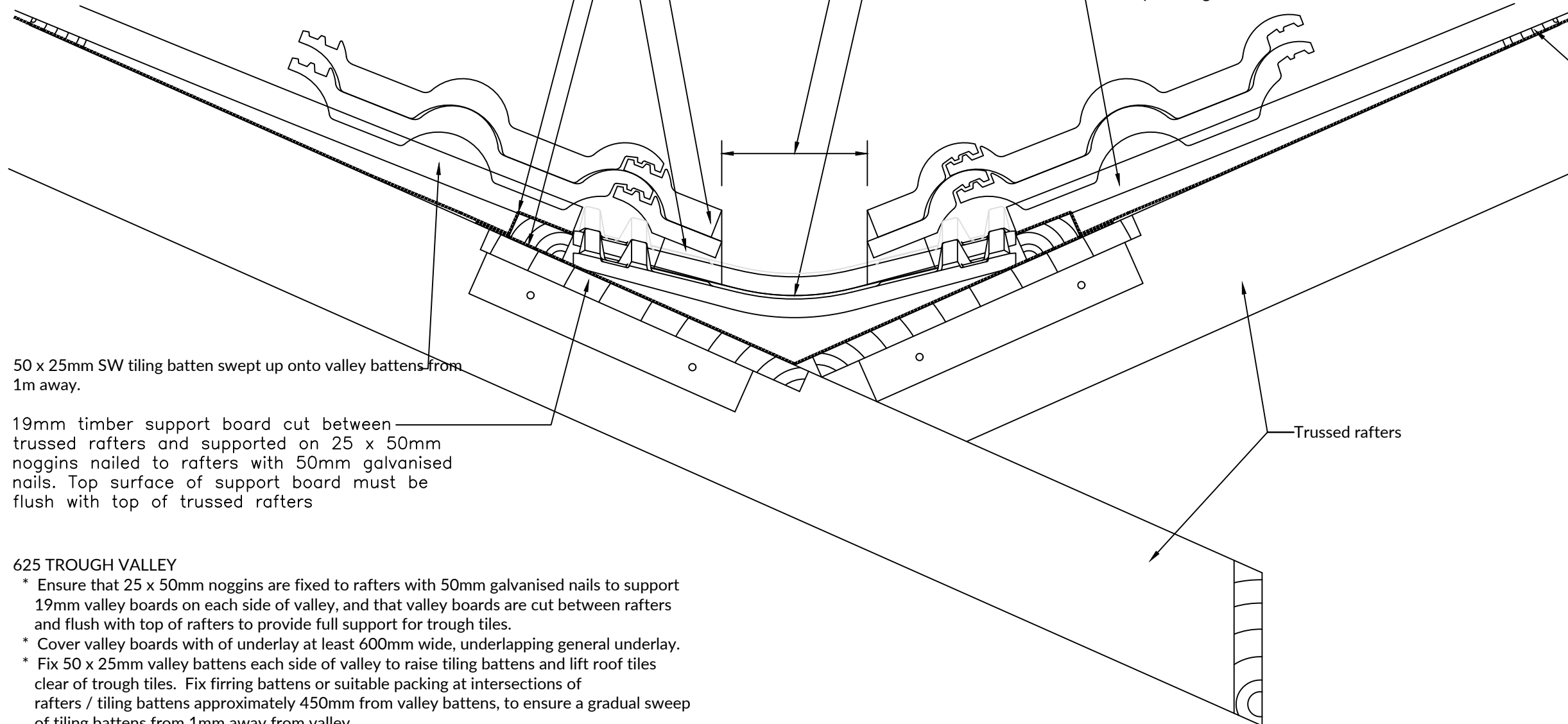
Underlay cut to rake and dressed up and across top of valley batten

125mm width between vertical faces of valley

Universal Valley Trough Tile (10002961). Side channels must be kept clear of mortar.

50 x 25mm S.W. valley batten

Firing batten or suitable packing at intersection of rafter / tiling batten approximately 450mm from valley batten, sized to suit sweep of tiling battens



50 x 25mm SW tiling batten swept up onto valley battens from 1m away.

19mm timber support board cut between trussed rafters and supported on 25 x 50mm noggins nailed to rafters with 50mm galvanised nails. Top surface of support board must be flush with top of trussed rafters

Trussed rafters

625 TROUGH VALLEY

- * Ensure that 25 x 50mm noggins are fixed to rafters with 50mm galvanised nails to support 19mm valley boards on each side of valley, and that valley boards are cut between rafters and flush with top of rafters to provide full support for trough tiles.
- * Cover valley boards with of underlay at least 600mm wide, overlapping general underlay.
- * Fix 50 x 25mm valley battens each side of valley to raise tiling battens and lift roof tiles clear of trough tiles. Fix firing battens or suitable packing at intersections of rafters / tiling battens approximately 450mm from valley battens, to ensure a gradual sweep of tiling battens from 1mm away from valley.
- * Cut underlay to rake and dress up and across top of valley battens.
- * Lay Redland Universal Valley Trough Tiles (10002961).
- * Cut tiles neatly to form a gap 125mm wide centred on valley. Remove nibs where they foul with valley. Bed on mortar as clause 290 on valley trough tiles ensuring that side channels are kept clear.

Drawing Title:	Valley Trough Tile				
System:	50 Double Roman / Valley Trough Tile				
Dwg. No:	DR35VLY3	Date:	19 May 2022	Scale:	NTS

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Cement: sharp sand mortar (to comply with tensile bond strength in BS5534) bedding the continuous valley length onto GRP sanded strip

Redland Double Roman Tile (10003045) cut to rake of valley and mechanically fixed where possible (cut nibs if they foul with GRP Valley)

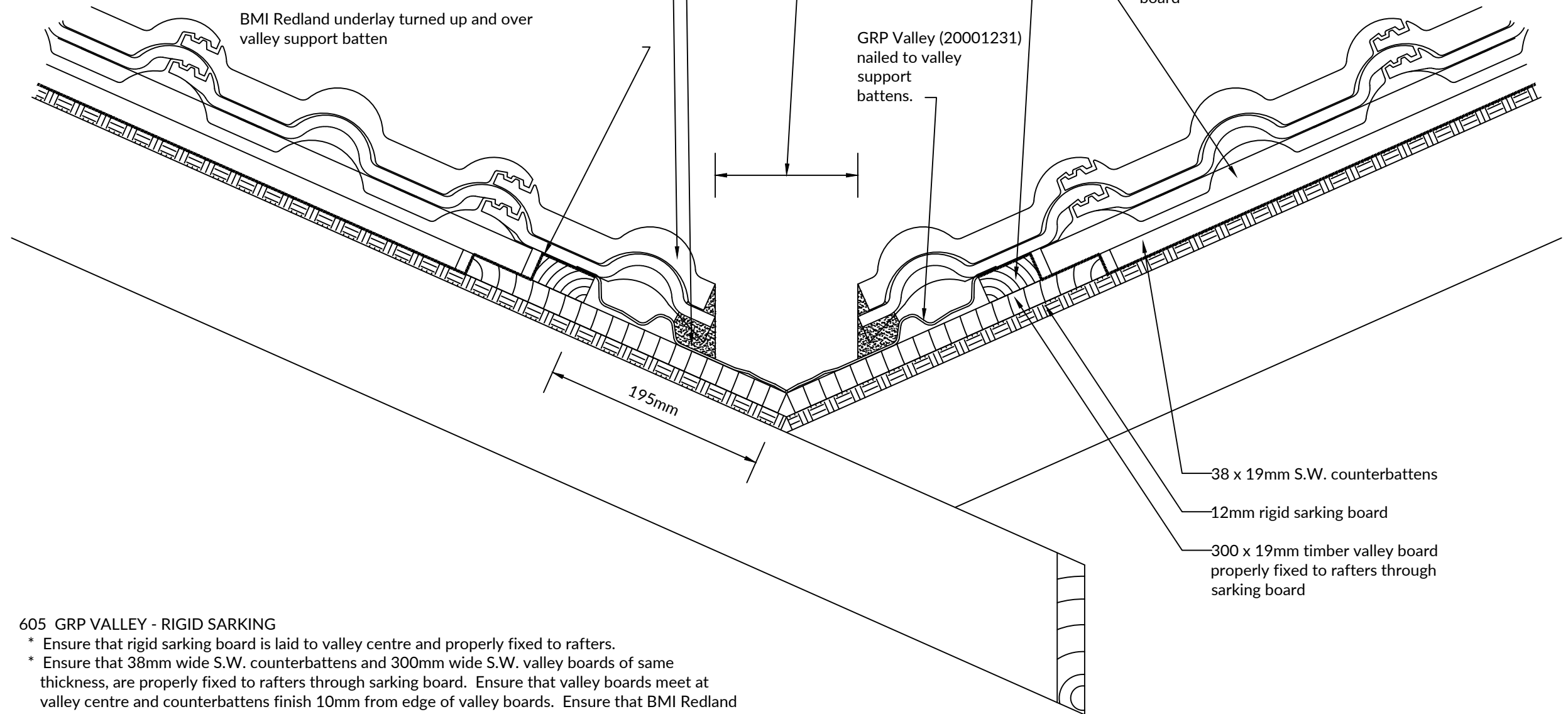
BMI Redland underlay turned up and over valley support batten

GRP Valley (20001231) nailed to valley support battens.

125mm width between vertical faces of valley

50 x 25mm S.W. valley support batten

50 x 25mm S.W. tiling batten supported on valley support board



38 x 19mm S.W. counterbattens

12mm rigid sarking board

300 x 19mm timber valley board properly fixed to rafters through sarking board

605 GRP VALLEY - RIGID SARKING

- * Ensure that rigid sarking board is laid to valley centre and properly fixed to rafters.
- * Ensure that 38mm wide S.W. counterbattens and 300mm wide S.W. valley boards of same thickness, are properly fixed to rafters through sarking board. Ensure that valley boards meet at valley centre and counterbattens finish 10mm from edge of valley boards. Ensure that BMI Redland underlay is properly laid between sarking board and counterbattens, cut to rake and dressed over valley boards with sufficient free length to dress over valley support battens.
- * Carefully fold back underlay over counterbattens, and at 195mm from valley centre up each slope, properly fix 50 x 25mm valley support battens to rafters through valley boards and rigid sarking. Dress underlay over valley support battens to inner edge.
- * Properly fix 50 x 25mm tiling battens at all batten/counterbatten intersections and at valley boards, finishing 10mm from valley support battens.
- * Fix Redland 125 GRP Valley (20001231) to support battens with 25mm galvanized clout nails.
- * Cut roof tiles neatly to form a gap 125mm wide centred on valley. Remove nibs where they foul with valley. Bed on mortar as clause 290 on GRP valley ensuring that side channels are kept clear.

NOTE: -
All dimensions are appropriate for any thickness of counterbatten and/or rigid sarking board.



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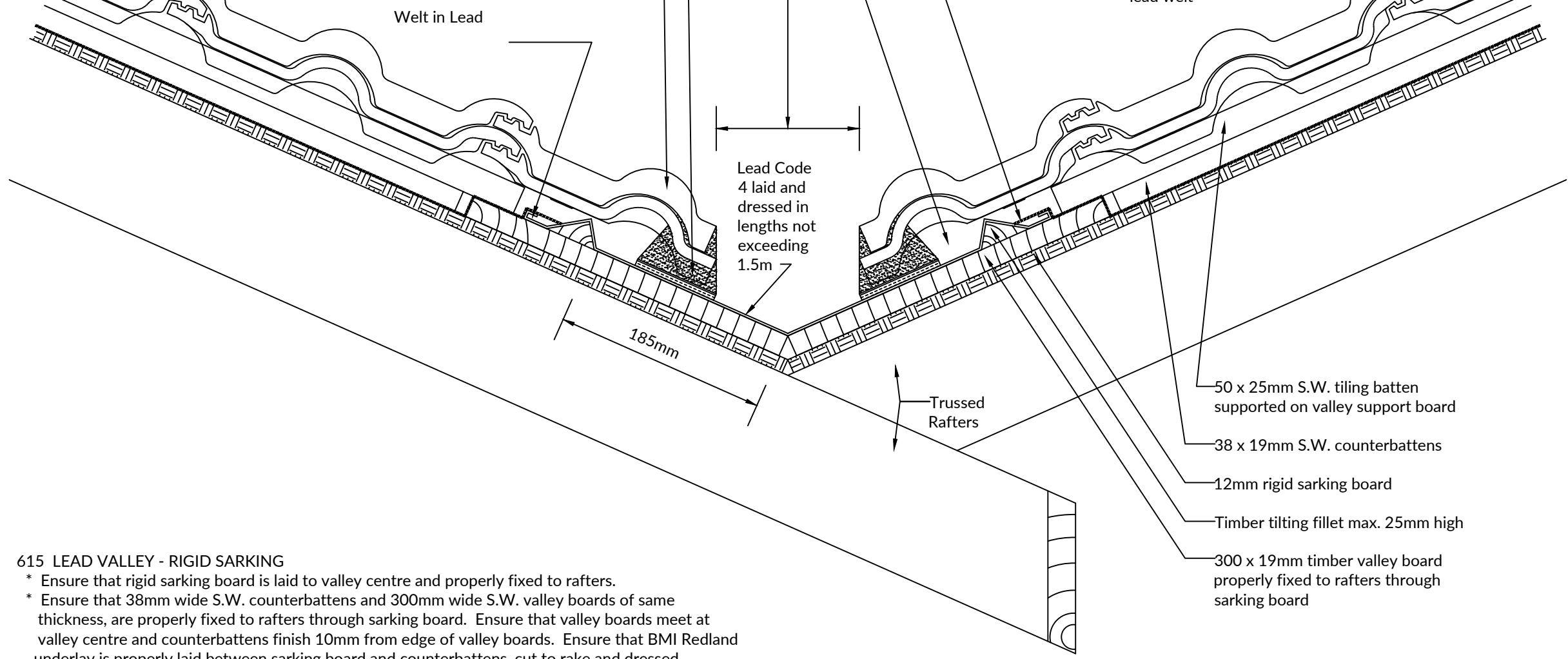
Drawing Title:	GRP Valley - Sarking				
System:	50 Double Roman / GRP Valley				
Dwg. No:	DR35VYK1	Date:	19 May 2022	Scale	NTS

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Cement: sharp sand mortar (to comply with tensile bond strength in BS5534) bedding the continuous valley length onto 75mm wide undercloak slip plain.

Redland Double Roman Tile (10003045) cut to rake of valley and mechanically fixed where possible (cut nibs if they foul with Valley)



615 LEAD VALLEY - RIGID SARKING

- * Ensure that rigid sarking board is laid to valley centre and properly fixed to rafters.
- * Ensure that 38mm wide S.W. counterbattens and 300mm wide S.W. valley boards of same thickness, are properly fixed to rafters through sarking board. Ensure that valley boards meet at valley centre and counterbattens finish 10mm from edge of valley boards. Ensure that BMI Redland underlay is properly laid between sarking board and counterbattens, cut to rake and dressed over valley boards with sufficient free length to dress over lead welts.
- * Carefully fold back Spirtech 250 over counterbattens. Cut timber tilting fillets from 50 x 25mm battens, and at 185mm from valley centre up each slope, fix them to rafters through valley boards and rigid sarking.
- * Dress code 4 lead with welted edges over and beyond tilting fillets, in lengths not exceeding 1.5m, and fix with 25 x 3mm copper clout nails in two rows at 25mm and 50mm from top edge of sheet at 75mm staggered centres. Ensure that sufficient valley board remains free to support and properly fix tiling battens. Dress underlay over lead welt to tilting fillet.
- * Properly fix 50 x 25mm tiling battens at all batten/counterbatten intersections and at valley boards, finishing 10mm from lead welt.
- * Cut roof tiles neatly to form a gap 125mm wide centred on valley. Remove nibs where they foul with valley. Bed on mortar as clause 290 on 75mm wide 6mm fibre cement undercloak laid loose on each side of valley, ensuring that side channels are kept clear and at least 25mm wide.

NOTE: -
All dimensions are appropriate for any thickness of rigid sarking board, and 19mm thick counterbattens. Thicker counterbattens might require wider valley support boards.



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Drawing Title:	Lead Valley - Sarking				
System:	50 Double Roman				
Dwg. No:	DR35VYK2	Date:	19 May 2022	Scale	NTS

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Cement: sharp sand mortar (to comply with tensile bond strength in BS5534) bedding the continuous valley length

Redland Double Roman Tile (10003045), cut to rake of valley and mechanically fixed where possible (cut nibs if they foul with Valley Trough Tiles)

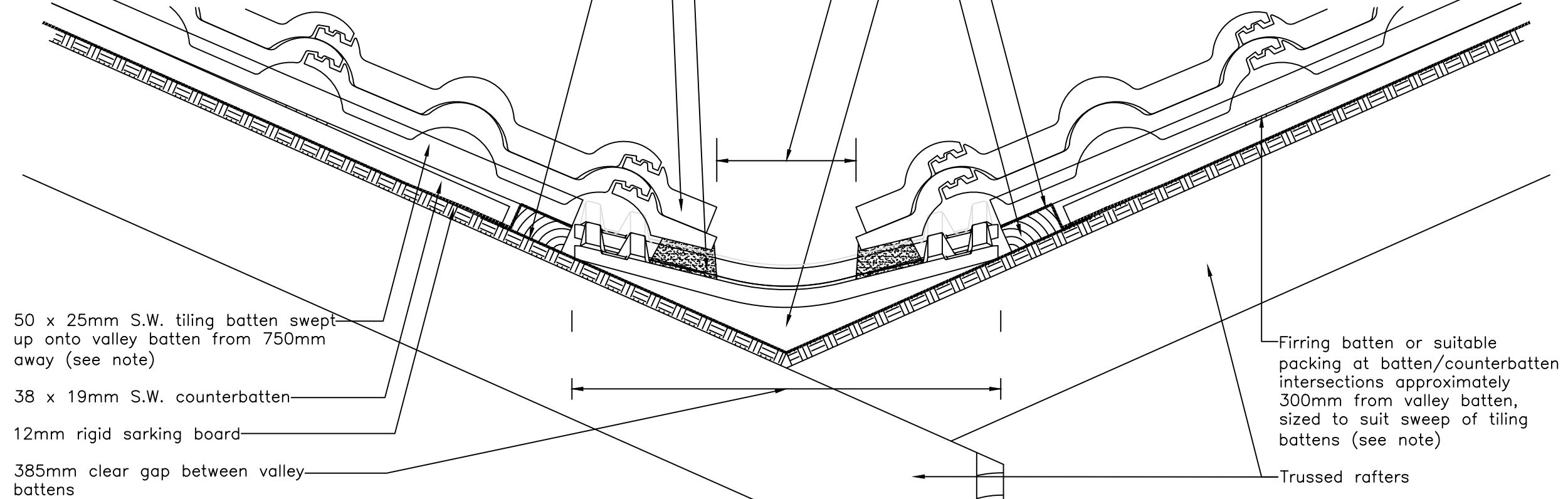
600mm (min.) strip of BMI Redland underlay central to valley

125mm width between vertical faces of valley

Universal Valley Trough Tile (10002961). Side channels must be kept clear of mortar.

50 x 25mm S.W. valley batten (see note)

BMI Redland underlay cut to rake and dressed up and across top of valley batten



50 x 25mm S.W. tiling batten swept up onto valley batten from 750mm away (see note)

38 x 19mm S.W. counterbatten

12mm rigid sarking board

385mm clear gap between valley battens

Firing batten or suitable packing at batten/counterbatten intersections approximately 300mm from valley batten, sized to suit sweep of tiling battens (see note)

Trussed rafters

625 TROUGH VALLEY – RIGID SARKING

- * Ensure that rigid sarking board is laid to valley centre and properly fixed to rafters.
- * Ensure that strip BMI Redland underlay at least 600mm wide is laid centrally up valley.
- * Ensure that 50 x 25(min.)mm (see note) valley battens are properly fixed to rafters each side of valley, maintaining a 385mm clear gap between.
- * Ensure that underlay is properly laid, cut to rake and dressed up and across top of valley battens.
- * Ensure that counterbattens (see note) are properly fixed to rafters and finish 10mm from valley battens.
- * If required (see note) fix firing battens or suitable packing at batten/counterbatten intersections approximately 300mm from valley batten, sized to suit sweep of tiling battens.
- * Fix tiling battens at all batten/counterbatten intersections, and at firing batten or packing if applicable (see note). Finish tiling battens at valley battens.
- * Lay Redland Universal Valley Trough Tiles (10002961).
- * Cut roof tiles neatly to form a gap 125mm wide centred on valley. Remove nibs where they foul with valley. Bed on mortar as clause 290 on valley trough tiles ensuring that side channels are kept clear.

NOTE: –

Items marked "(see note)" are specific for roofs with counterbatten thickness of 19mm.

Valley battens must be the thicker of 25mm or thickness of counterbattens.

With counterbattens less than 25mm thick, use 25mm thick valley battens and sweep tiling battens up onto them from 750mm away, using firing battens or suitable packing at batten/counterbatten intersections approximately 300mm from valley batten, sized to suit sweep of tiling battens.

With counterbattens and valley battens 25mm or more thick, then firing battens, packing or sweep are not required.



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Drawing Title:	Valley Trough Tile - Sarking				
System:	50 Double Roman / Valley Trough Tile				
Dwg. No:	DR35VYK3	Date:	19 May 2022	Scale	NTS

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