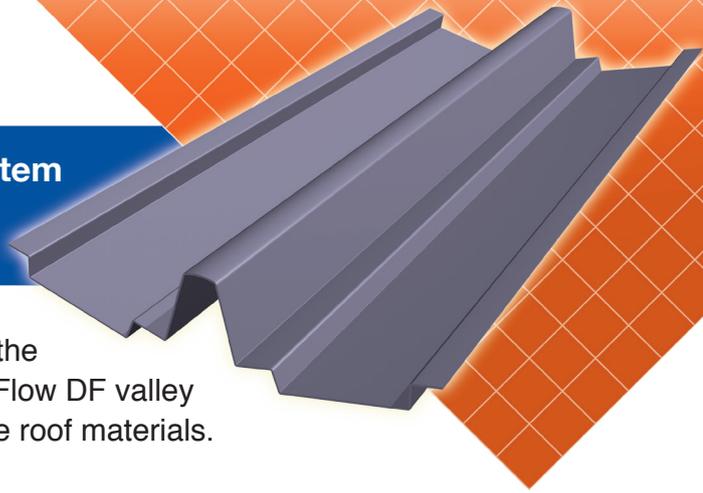
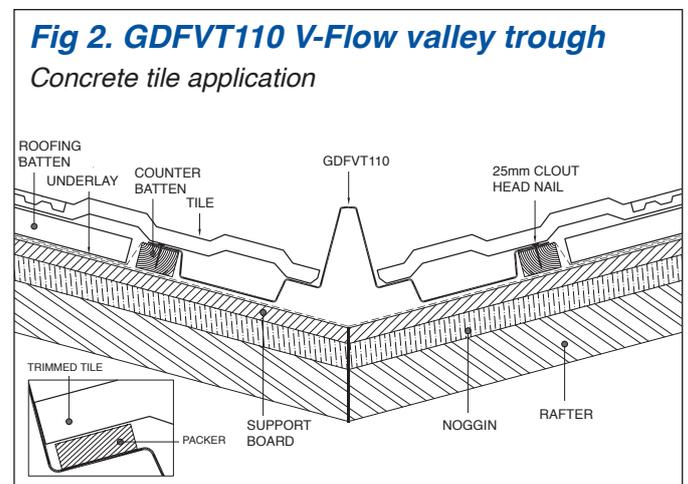
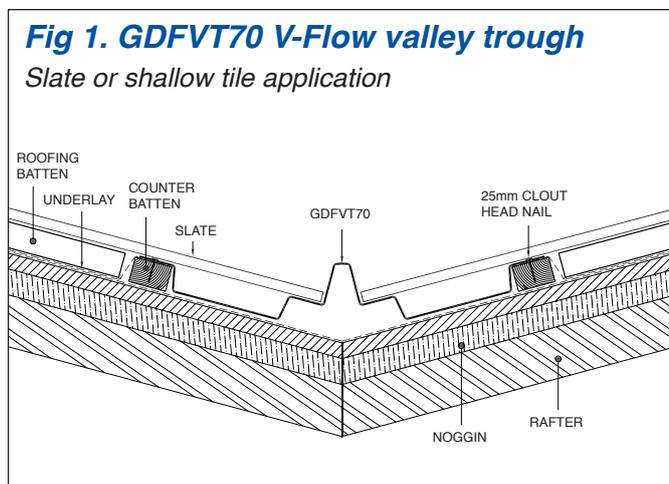


## GRP dry-fix simulated lead valley trough system Installation instructions



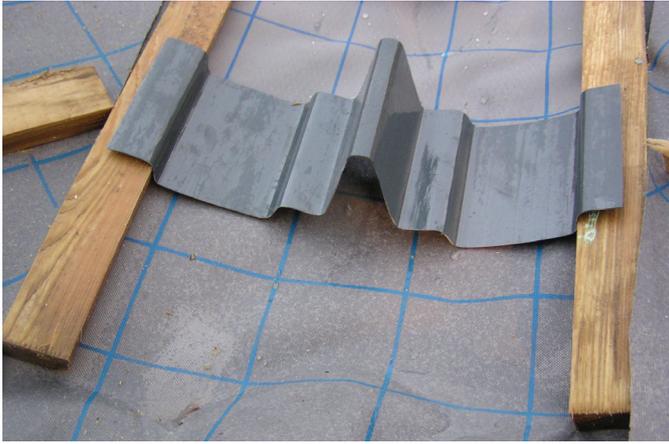
Developed to eliminate the problems associated with the use of cement mortar, with two height variants, the V-Flow DF valley trough range can be used with all tile profiles and slate roof materials.

1. V-Flow valley troughs are suitable for roof pitches up to 60°. FILON strongly recommends that where possible, plywood or other suitable valley boards should be used.
2. The underlay material and battens should be fixed in accordance with standard roofing best practice with a batten running the length of the valley on each side to accommodate the V-Flow DF external raised water bar section.
3. When using the FILON eaves closure, the 150mm long GRP pre-cut valley section support should be positioned close to the eaves. (See photo A, overleaf).
4. The eaves closure piece should be overlaid onto the GRP pre-cut valley section (ensuring 150mm overlap), ensuring that the side winged sections are located over the longitudinal battens (See photo B, overleaf). The bottom of the eaves closure piece should overhang the eaves. At the highest point of the eaves closure section a large headed galvanised or aluminium nail should be fixed through the section into the longitudinal batten. Note: A length of flexible packing is supplied with the eaves closure, to use if required to form the continuation of the side support timber battens (when the angle of the valley does not allow the battens to extend to the rear of the fascia board).
5. V-Flow DF valley troughs are fitted onto the valley boards and should be firmly fixed from the eaves closure section upwards, using suitable large headed roofing nails on either side of the trough and through the top flat section of the water bar, at a minimum of 500mm centres (See photo C, overleaf). All overlaps of troughs should be at least 150mm when measured in the vertical. Care should be taken to ensure that the central raised section is not distorted in any way and that it is positioned central to the valley.
6. If the valley trough finishes at a ridge section with a corresponding valley, the top closure pieces can be used. These closure sections overlap the valley troughs and underlap the slates / tiles that form over this point. The longitudinal battens of each valley should meet and be mitred so that the top of the top closure can be fixed with a suitable roofing nail to stop any movement. The top closure then overlaps both valley troughs by 150mm and forms a neat, tidy, waterproof seal. (See photo D, overleaf).
7. Tiles or slates being laid into and over the troughs should be laid in accordance with the manufacturer's recommendations. When cutting tiles or slates it is important that neither should be forced to fit. The central raised section of the V-Flow valley trough should not be distorted.
8. Where possible the roof tiling should be planned to avoid small cut sections. However, in some instances small cuts will be required. Self adhesive packers are supplied with the valley to support these small cuts if required (See fig 2, below).
9. When the slating or tiling has being completed, the eaves closure section should be cut with a sharp knife or scissors to allow water discharge into the rain water gutter.
10. It is important to ensure that the valley troughs are cleared of any debris on completion, so water flow is not impeded.

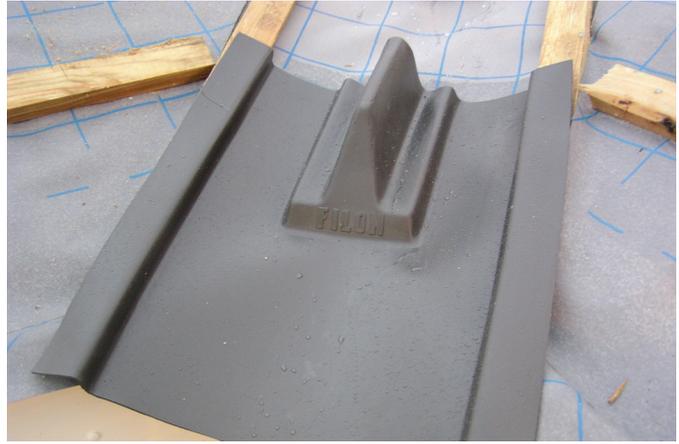


For installation support, please contact our technical department on 01543 687300.

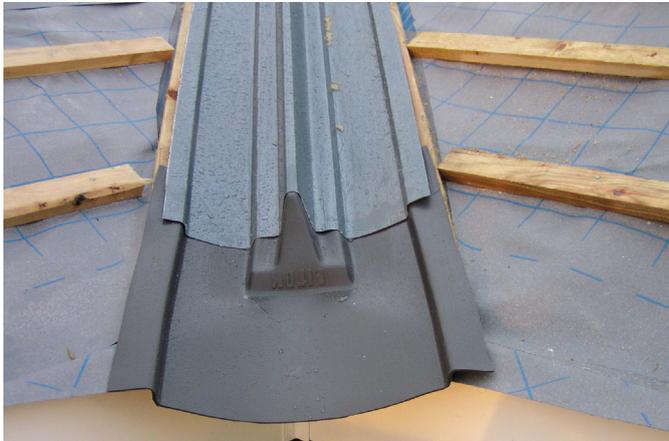
## Eaves closure piece installation



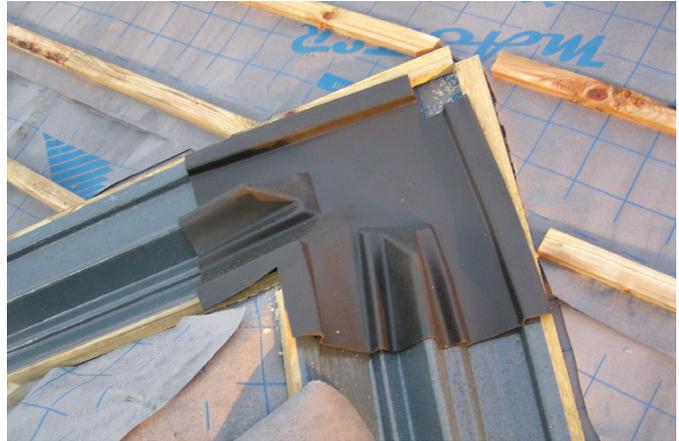
A. 150mm long pre-cut GRP valley support is nailed to the battens so that it will locate under the raised ridge of the flexible eaves closure piece which will be placed on top of the support.



B. The eaves closure piece is placed over the support and nailed to secure – a flexible packing piece is used to support the sides of the closure if the battens do not extend to the fascia.



C. The V-Flow DF valley trough is positioned over the eaves closure piece and fixed at 500mm centres, with large headed galvanised or aluminium nails.



D. The top closure should be fixed in position over the two joining V-Flow DF valley troughs.



E. The eaves closure piece is cut to allow water discharge into the gutter.



F. The completed installation: neat, tidy and effective – with minimal on-site time.

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