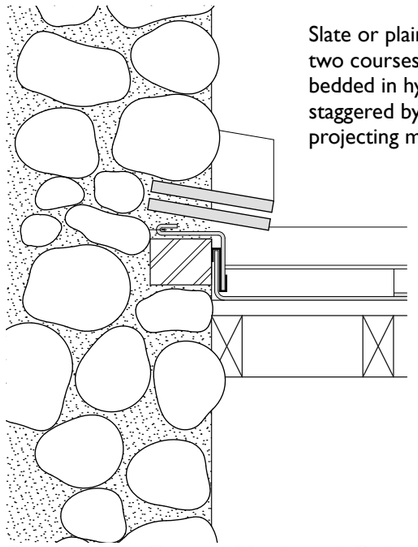
Standard Specification
Lead Roof Abutment detail



Slate or plain tile crease, consisting of two courses of slates or plain tiles bedded in hydraulic lime mortar, joints staggered by at least 100mm. Crease projecting min 25mm beyond lead.

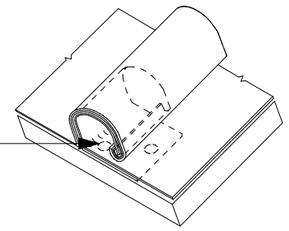
Slate or tile Crease Abutment Detail, 1:10

Roof slopes above 10° up to and including 60°.		
BSEN12588 Code No.	Max.spacing of joints with the fall	Max.distance between lapsmm
4	500	1500
5	600	2000
6	675	2250
7	675	2400
8	750	2500
Roof slopes above 60° up to and including 80°.		
4	500	1500
5	600	2000
6	675	2250
7	675	2250
8	750	2250

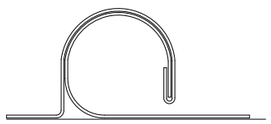
Table showing Hollow Roll laps, 1:5

Clips should be positioned at 450mm max centres and 300mm for severe exposures

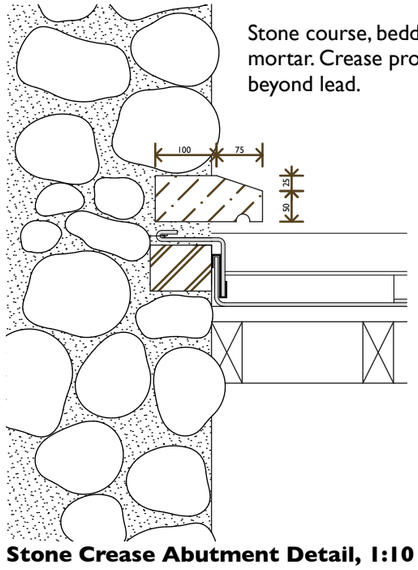
Copper clip nailed to roof boarding



Hollow Roll detail, 1:5

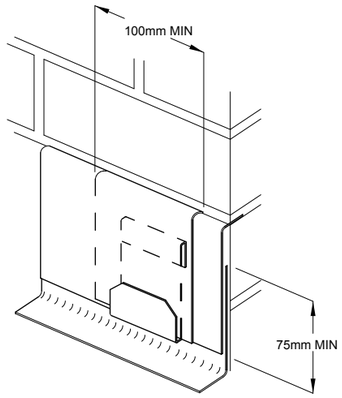


Hollow Roll cross section, 1:5

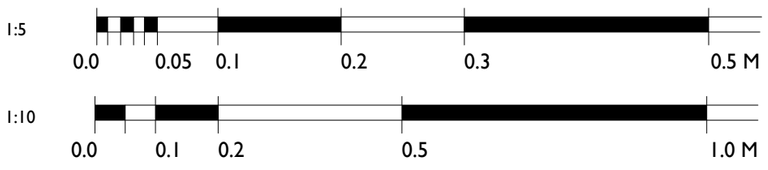


Stone course, bedded in hydraulic lime mortar. Crease projecting min 25mm beyond lead.

Stone Crease Abutment Detail, 1:10



Lead Flashing Detail, 1:5



Lead sheet fixings:
The head fixing shall be of two rows of copper clout nails at the head of the panel, 75mm apart and staggered, the top row being 25mm from the top edge of the sheet with 25mm between rows.

Side fixings are provided by 50mm wide copper clips incorporated in the joints and fixed to the wood sub strata with No. 3 copper clout nails or 2 brass or stainless steel countersunk screws to each clip. These should be at a maximum of 600mm spacing with the lead sheet and copper clip lightly pinched together.

Retaining clips to secure free edges against wind lift should be 50mm wide and cut from either sheet lead or copper sheet. Copper clips are preferable in situations where severe exposure and these shall be preferably hot dipped coated with a high lead content solder when visible. Any such retaining clips at bottom of panels shall be fixed to allow some freedom for thermal movement.

Intermediate fixings will generally be unnecessary with roofs below 30° pitch. With roofs of a greater pitch than 30° and vertical panels some additional support may be required for an intermediate fixing. These can take a number of forms but our preference is for screw fixing with a lead burn dot or screw fixings with a small lead cap, lead burned, to cover them.

The joints across the fall can be formed by either a lap joint or a drip.

Lead Flashings
Apron flashings to be 225mm minimum for slate and lead roofs up to 20° pitch. Lead or lead coated copper clips provided at lap to secure the free edges. Head laps to be minimum 100mm unless otherwise specified.

Soakers, these should be of code 3 milled lead to a minimum width of 175mm to allow for 75mm upstand and 100mm minimum at head flashings. Should abutment wall not be suitably coursed for fixing a stepped cover flashing a groove should be formed of minimum 35mm in depth. The flashing to be turned in 25mm and fixed with lead wedges at 500mm centers and edge welted up. Normally a drip of either 2 courses of plain tiles will be formed over the flashing, or where the wall is rendered, a stainless steel bell drip will be sealed with a 2 part polysulphide mastic, or lime putty / fine sand mortar as detailed in the schedule of work or on the drawings.

Lead Valleys, after new valley boards have been provided a lining fillet is to be fixed to each side of the gutter trim to give 125mm trim between raking edges of the roof covering and overhang of 25mm-50mm and a fillet to the naked edge. Bituminous sarking felt beneath the roofing should not be carried over sole of gutter as underlay to gutter lining. Use Code 5 milled lead unless otherwise specified, at lengths not to exceed 1200mm width laps of 150mm Min.

Flashings, pitched roof to abutment. Use Code 5 milled lead for stepped and cover flashings with horizontal turn in to a raked out joint of minimum depth 25 mm and fixed with lead wedges at each step or at spaces of 500 mm in straight runs. Single length of cover flashing to be a maximum of 1200 mm in length and lapped a minimum of 100 mm.

Revision:	Notes:					Date:	Key to Symbols used (above)
Revision:	Notes:					Date:	This drawing is copyright ©
Drawn:	North Point:	Drawn Scale:		Checked:		Date:	**© Nicholas Warns Architect Ltd.**
Location:						Grid Ref. :	**64 Bishopgate Norwich, NR1 4AA**
Project:	Standard Specification Details					Job Number:	Tel.: 01603 622056
Drawing:	Lead Roofing Hollow Rolls and Lead Abutments - APPENDIX A					Drawing Number:	Fax.: 01603 627 393
Scale: 1:10 1:5	Location	Plan	Detail	Section	Elevation	Original Drawing A3	info@nicholaswarns.com