

Low pitched roofing

CREST NELSKAMP LOW PITCHED ROOFING SOLUTIONS

Finding a roofing solution for a low pitch or a complex roof can be frustrating and confusing. Crest high quality range of roof tiles offer solutions that allow you to easily design roof pitches from a minimum of 10°. All design considerations and the roof installation should always comply with **BS 5250 Management of Moisture in Buildings**, **BS 5534 Code of Practice for Slating & Tiling** and **BS 8000-6 Workmanship on Building Sites Code of Practice for Slating & Tiling**.

1. ROOFING MEMBRANE

Use high quality low pitch roof underlay with resistance to water penetration Class W1 (EN 1928) and installed to manufacturer's instructions.

2. ROOF TILES GAUGE & HEADLAP

For simple and non-complex roof designs with a maximum rafter length of 5m. Do not exceed the maximum gauge and headlap of the tile. Crest Nelskamp has three clay roof tiles which will perform at roof pitches to a minimum of 10°, the G10, H10 and H14 roof tiles. Crest Nelskamp concrete roof tiles can be used at a minimum pitch of 15°, these include the *Planum, Planum Duo, Double Roman and Double Pantile. On lower pitches of 22° and below these tiles should have the following headlaps (min).

Planum: 80mm (22.5°+).

100mm (17.5°+). 110mm (15°+).

Planum Duo: 80mm (22.5°+).

100mm (17.5°+).

Double Pantile: 75mm (22.5°+).

100mm (17.5°+). 110mm (15°+).

Double Roman: 75mm (22.5°+).

100mm (17.5°+). 110mm (15°+).

3. FIXINGS

All Local areas around the roof perimeters and abutments must be mechanically fixed twice, including roof windows, chimneys, etc. Site specific fixing specifications are available from Crest on request.

4. COUNTER BATTEN

The roof must be counter-battened, using graded tiling and counter battens in accordance with BS 5534. Fix a 25x50mm counter batten on top of the membrane up the length of the rafter from eave to ridge line, or on a mono pitch roof to the top abutment. Fix the tiling battens (25x50mm) at the roof tile gauge. This will create a 50mm airspace between the underside of the roof tile and the top of the membrane. Use batten tape over the membrane at all fixing points.

5. FIXINGS BELOW 17.5°

The G10, H10 and H14 clay roof tiles are to be mechanically fixed with purpose made stainless steel tile clips. The *Planum, Double Roman and Double Pantile are to be clipped and fixed with 4.5 x 45mm fixing screws with a neoprene washer. Do not nail as this will cause potential water ingress points.

6. EAVES

Simple to install an eaves closer or comb is a quick and effective way of preventing birds and insects from entering the counter batten cavity. They are fixed directly into the bottom of the counter batten at the eaves or onto a continuous edge batten along the complete perimeter length of the eaves.

7. VENTILATION

Always ensure adequate roof ventilation is installed in accordance with BS5250. Fix a 25mm fascia vent on top of the fascia board and allow 10mm continuous ventilation at the highest point of the roof.

8. SUPPORT TRAYS

At the eave use a good quality PVC support tray, 1.5m in length. These are quick and straightforward to install, ensuring the breather membrane fitted under the roof tiles is not carried into the gutter. It will help with long term maintenance at the eaves, does not deteriorate, prevents the membrane from being exposed to UV degradation and avoids ponding behind fascia's which can cause the membrane rot.

9. VERGE

At the verges use the matching colour of the Crest cloaked verge purpose made tiles. These are mechanically fixed and do not require any mortar giving a tidy and maintenance free solution.

10. DRY RIDGE SYSTEM

If a ridge is required use the Crest Nelskamp dry ridge system and mechanically secure all ridges in accordance with BS 5534.



Counter-battened roof for ventilation.



Crest clay right hand cloaked verge.



Roof tiles must be clipped and fixed with two screws 4.5 x 45mm with neoprene washers.

Please Note: Fixing specs may vary due to roof pitch and location.

For further technical support and information please contact Crest on tel: **01430 432 667** or email: **info@crest-bst.co.uk**

*As per European trademark Nr.7287956, filed on 2nd October 2008, the Trademark PLANUM belongs to La Escandella. It is Dachziegelwerke Nelskamp as authorized licensee of the owner allowed to use the mark PLANUM for its concrete product.

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ROOFING TILES