

Noville School Diorama Part 5 Making the Roof.

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Moulds and Materials

To make the roof we used the:

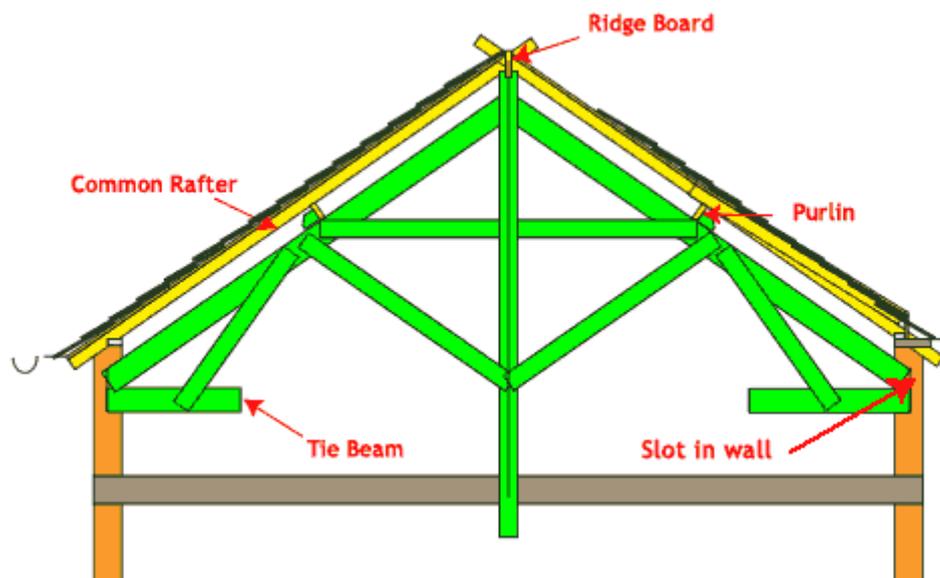
- 1:35 Scale Slate Roof Tiles Mould (1350031)

The materials we used are as follows:

- Hard casting plaster.
- Water resistant PVA glue.
- Black powder pigment.
- Brown coloured powder pigment.
- Regular soft wood.

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Making the Roof



Note: *The roof of the old school in Noville used a type of King Post Roof Truss (green) which at some point had been braced and the centre of the tie beam had been cut out. We will make the truss with the tie beam going all the way across and cut it out when the roof is finished.*

We printed out a full size 1:35 scale drawing of the roof and made the trusses using the same method as we used to make the floors in part 4 (double sided tape stuck to the drawing to hold the pieces of wood in place while the glue dries).



We painted all the trusses and any other wood we may need with a weak mix of black powder pigment and water to give them an aged look. When they were dry we sat each end of the truss into slots cut in the walls. We then stuck the ridge board and two perkins in place to keep the trusses upright. The slots were then filled with mortar coloured filler.

We then stuck a cement wall plate (made with the lintel and sills mould) on top of the front wall of the building and a wooden wall plate on the rear wall.



In the picture above we have started to stick down the common rafters.



We have now stuck down the roof battens. If this was a clay tiled roof they would be smaller and closer together so the clay tiles could hang from them. We have started to cover the battens with planks which intern will be covered with slate roof tiles. Slate tiles can also be attached straight onto the battens. It all depends on the building you are modelling.

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Tiling the Roof

We cast the slate roof tiles using the 1:35 Scale Slate Roof Tiles Mould (1350031). It will take a few castings to cover the whole roof so you have chance to vary the colours by changing the colour of the plaster mix. We used varying amounts of black and brown powder pigment.



Note: *The first row of slate tiles are laid long ways running parallel with the roof (you can see this at the bottom right of the roof in the picture above). The second row completely covers the first. The gaps in second row should not be directly above the gaps in the first row.*

The slate tiles are stuck down with a couple of spots of water resistant PVA wood glue.



Lead ridge flashing.

The lead ridge flashing was made with soft aluminium foil formed over a circular piece of wood (about 1.5mm in diameter). A piece of wood the same diameter was stuck on top of the ridge board (you could round the top of the ridge board). The aluminium foil was sprayed with metal primer then painted with grey acrylic paint and dry brushed with white.

In Part 6 we will be covering how to finish the walls and make the rubble.

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