

STONEYBRIDGE STRUCTURES

02-208-00

North Eastern Railway N2 Style Signal Box



INTRODUCTION

Thank you for purchasing one of our products. We hope this information sheet will prove useful in the construction of this model. We have endeavoured to design this kit so assembly will be straightforward and logical to construct. Trial fit of parts is always recommended before fixing. In some cases, the individual parts will benefit from painting i.e. stairs and cladding before the model is finally glued together.

It is not our intention to give a blow by blow written account of how the signal box is constructed but a diagrammatic list of parts with photographs of the model to assist in what goes where together with hints & tips along the way.

The model is designed to sit on the baseboard (base sleeper level) and ballast or other infill made up to top of rail height.

Background

N2 Signal Cabins were introduced by the North Eastern Railway, Northern Division in the 1890's and were a more up to date cabin than the previous N1 type. Updated features include modified locking room windows and a deep stone lintel.

Orientation

For the sake of these instructions, we will describe the faces of the model with regard to the photograph above

Side 1 – left hand plain side

Front – with locker room lower level windows

Side 2 – with porch

Back – rear elevation with chimney stack

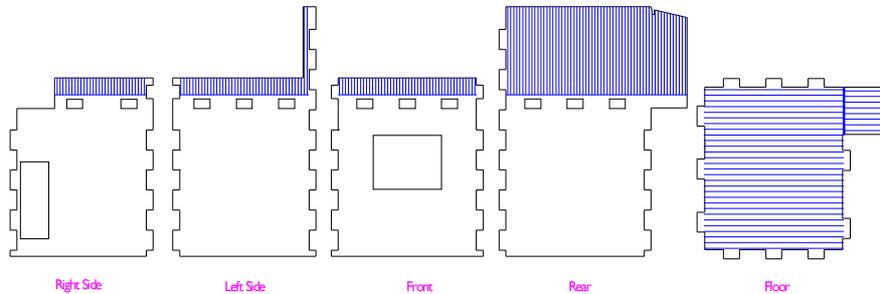
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CONSTRUCTION

Carcase

This forms the core of the model.

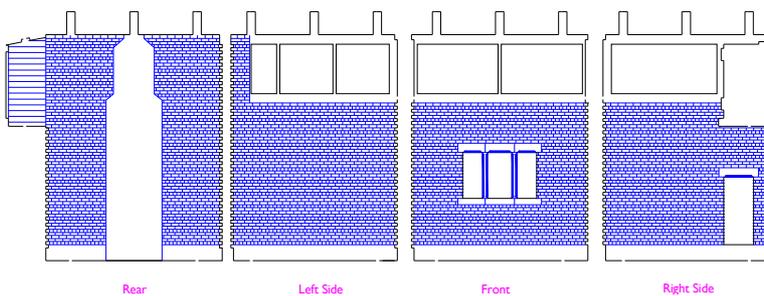


Made from MDF

All walls are glued with the etched parts inwards. Floor is glued with etched surface upwards.

The etching represents wall panelling and floor boarding so will need to be constructed with these parts visible

Cladding



Made from 0.75 modified acrylic.

All courses interlock to give straight mortar courses. The fingers on top will help locate the roof panels later and will be trimmed in due course.

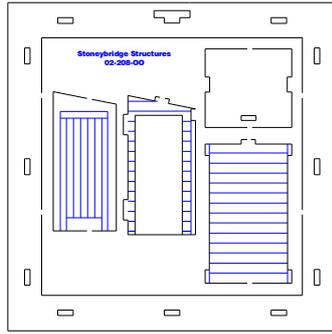
Glue the cladding onto the carcase with No More Nails or similar ensuring all the mortar joints are tight. Glue the window parts together with Slaters MEK PAK or similar.

Roof

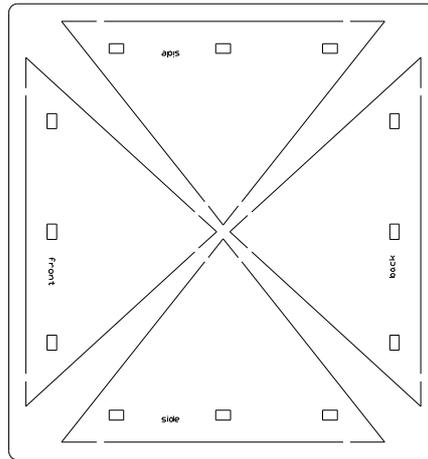
The roof is constructed in five parts. Four main in the right hand fret (below) and the square part for the eaves. Parts for the porch are inside the eaves fret. These parts can be kept in the fret for now.

Note the orientation. The T cut out in the eaves plate goes to the back.

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Roof
Base
Frame



Main Roof

The roof will be glued together upside down on the fingers of the cladding. First sand or file a chamfer on the inner edges to give a larger surface area for the solvent to stick. Plenty of solvent will be required for this but ENSURE THE ROOF PARTS DO NOT STICK TO THE CLADDING FINGERS.

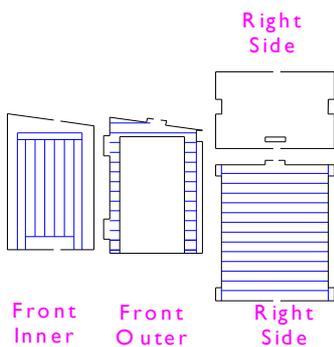
A useful tip is to hold the pointed parts together through the window openings while gluing.

Invert the roof parts and sand or file a flat onto the bottom of the roof. Slide the eaves framing onto the fingers. Slide roof onto fingers and tack onto the eaves fret. Again ENSURING THE ROOF PARTS DO NOT STICK TO THE CLADDING FINGERS. This will ensure alignment. When all is dry, remove roof from model and firmly bond roof parts together.

There are slates include which are to be laid in horizontal bands and overlapping in the usual way. Ridge tiles can be cut, depending on your preference from the remainder of the card. The slate strips are glued on with watered down PVA wood glue and trimmed. This job is best left to just before painting.

Porch

Glue the porch together and onto the cladding.



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Windows

The windows are in the fret in a particular order (by row and orientation) and need to be fitted on the same face as the rest of the row. Each row has different sized windows.



The large windows can be glued to the back of their respective openings. The small windows are glued in front of the above and fit inside the cladding openings. These can be shown as fully open, partly open or closed in all cases. The photo on the right illustrates this.

The locker room door and locker room windows can be glued from behind the cladding through the carcase.

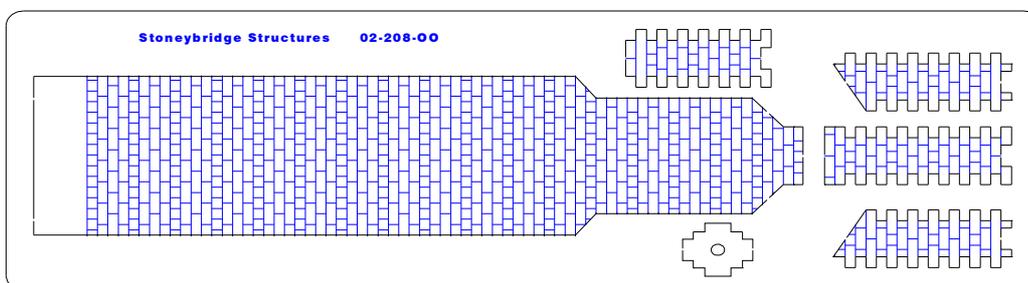
Once the windows have been fixed in and left to properly harden the roof can be reinstated onto the model. The cladding fingers can then be trimmed with a sharp chisel knife bit.

Glazing

Glazing is Slaters clear glazing sheet. The glazing will need to be hand cut depending your configuration of windows and should be glued behind the window panels. DO NOT USE SUPERGLUE for this job as clouding will affect the finish.

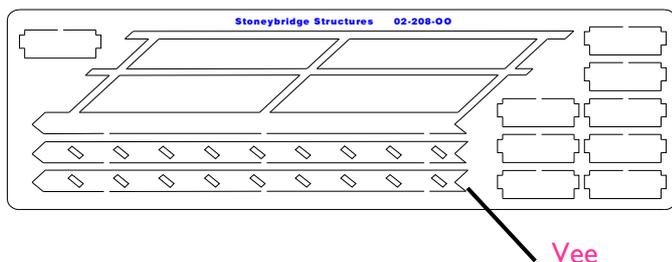
Chimney

The chimney stack is in two sections. The flat section is glued to the back of the cladding using the guide. The remainder is glued together to make the above roof stack.



Stairs

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The stairs are made from 0.8mm plywood, are delicate and should be treated with care.

There are two sideframes which take the treads. Glue the treads into one side of the sideframes and while still tacky, glue the other side on. Square up and leave to dry.

Once dry, the rails can be glued on. The inward vee being at the top. Ensure all the side frames and rail are glued on in the same orientation.

Note, the stairs will be short of the bottom of the model. This is so it will sit on the ballast and is intentional. The infill if required is around 6mm in OO scale.

Stone Lintel

The stone lintel located on the window fret is fitted under the window

Ventilator & Chimney Pot

Whitemetal castings for the chimney pot and ventilator can be fitted

ADDITIONAL INFORMATION

Modified acrylic plastics (Rowmark)

We use this material for most models. We use a white, black, red or grey as standard for both models and detailing parts.

We recommend this material be glued using Slaters Mek-Pak or stronger solvent weld.

Before gluing or painting it is recommend to wash down plastics with warm slightly soapy water to remove any cleaner that may have been used to prepare tis for sale.

It is also essential to rub down the material with a fine sandpaper such as wet and dry or steel wool. This will give the glue or paint a key to adhere to. As this is a harder material than polystyrene, it may be beneficial to soften it by first painting on a layer of your chosen solvent weld and letting it stand for a few minutes.

Use a spray primer (such as Halfords) for best results before final colour. Use of acrylic paints is preferable.

MDF (Medite)

A laserable MDF material used for the carcass of larger models, nameplates etc.

This material is best glued with a quality wood glue.

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Plywood

We use this material for smaller wooden parts such as platform supports and steps.

This material is best glued with a quality wood glue.

Card

Card is used for roofing sheets. Sticking these onto the roof with slightly watered down quality wood glue.

Styrene sheet (Slaters Plastikard)

We use this material for glazing. This material is best cut by hand so final trimming will be required to fit.

Can be glued with EMA Plastic Weld, Slaters Mek-Pak, and Limonene.

Please note polystyrene cement will not stick modified acrylics.

Superglue is to be avoided as it will leave a residue on the plastics.

Whitemetal

Whitemetal is used for moulded detail parts. Can be stuck to the model with high viscosity superglue.

Gluing dissimilar materials

Acrylic plastics can be glued to MDF or ply by using either No More Nails (recommended) or Butanone,

HEALTH and SAFETY

Our products are laser cut wood and plastic model kits and as such are not toys. They are not suitable for children.

We have tried to design our products to be as easy to assemble as possible. However, our products will require the use of sharp cutting implements such as knives and saws etc, sanding equipment, glues and paints to complete.

Always wear suitable personal protection equipment (PPE) and avoid breathing in dust particles and fumes from any material, glues or paints whilst sanding, cutting, gluing or painting any of our products.

Always follow any health and safety advice given on product labels or available via product websites. Please enquire if you are not certain with regards using any of our materials or products.

Every care and precaution should be taken when assembling our products.

We will take no responsibility or liability for any injury or costs incurred howsoever caused whilst using our products.