

## Introduction

March 2019

### About

At ScaleCast we want to provide the best real stone products that go far beyond levels of detail, but also provide an easy and effective product set that help you achieve beautiful scenery that looks as real as possible

# Engine Shed

## Overview

Building plans for real stone buildings from [www.scalecast.co.uk](http://www.scalecast.co.uk)



*Main View*



Our kits provide all the parts needed to make several different buildings and you can extend the designs by adding lots of new add on elements and variations, so as we work through the instructions that follow always keep in mind that nothing here is set in stone, you can replace many parts from our full range available

So, let's get planning and building .....

# Casting

For casting we have several videos and instruction documents on our website, so will not cover this in any depth here.

Casting in plaster can be a little more of a challenge but in our opinion provide that real stone look and feel and we think is much better for painting and weathering.

Casting in resin is fast and much easier in some respects but you need to take much more care with the gluing and painting.

Why not try both and see what you like best.

It is suggested that you make all your parts so as soon as you start building you will have everything you need as you want it and it also gets you to a finished

## Starting with the parts

### Our Kits

At the time of these plans we have 15 moulds in our NS range. You do not need all of them to build, however you can always just add a few moulds to your set and extend the possibilities

### The moulds and parts

All our products are silicone and can be cast using either Tuffcast plaster or resins, so the parts themselves will be the same however the gluing will be different, for plaster you should use a good PVA (also known as woodwork adhesive) and for resin parts you would use superglue.

For this model we used a wide range of moulds so we could show off as many part variations as possible, however as mentioned you could easily replace many of the windows and tile sections with the ones you prefer. So, for this build we use the following moulds.

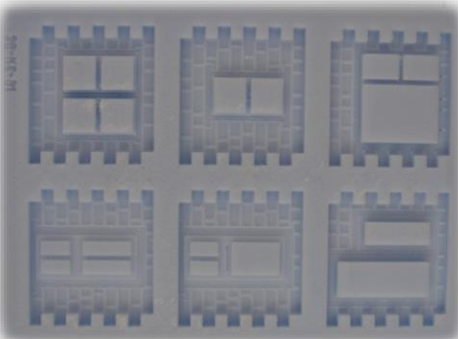
**Moulds used in the making of this building are:-**

**NS01 / NS02 / NS06 / NS10 / NS12 / NS13 / NS15 / CM10 Corrugated Roof Sheet / CM37 Ridge Tiles or (Your Choice of Style )**

*(Note:- you can use whichever roof or ridge tile style you like from our range)*

You may notice while looking at these plans that we have used some different parts than those described, this is NOT a mistake, this has been deliberate to show that all our moulds are mix and match. You can obtain other moulds from our range and build the same building, but make it different from the last one you made.

Let's look at the individual moulds before we get started on the build.

	<p><b>NS01</b></p> <p>This mould produces doors and windows and we use it on this build in several places</p> <p><b>KEY MOULD</b></p>
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product quicker

## Did you know

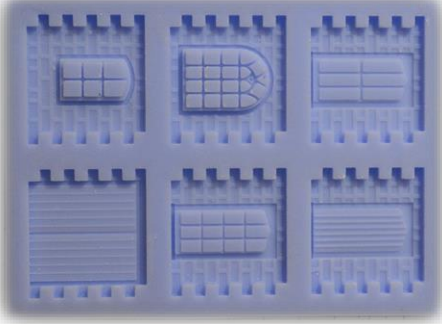
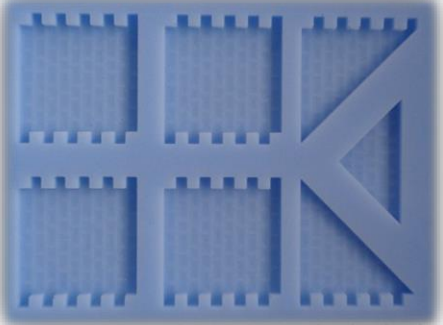
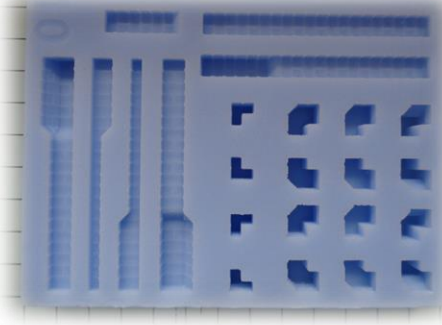
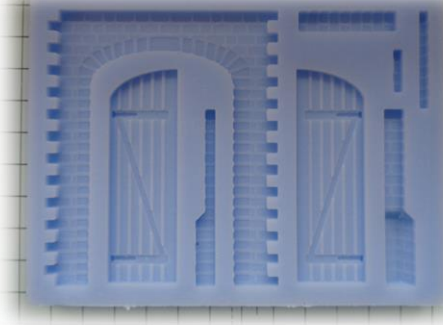
When casting in stone you can spray the moulds with water mixed with a drop of washing up liquid and the casts will look much better as the solution helps the casting mix flow into the mould.

Just get one of those spray bottles, fill with water and add a few ml of washing up liquid, or you can use rinse aid which many people say works even better.

## Painting

We recommend you use acrylic paints, so you can mix 50/50 acrylic and water to thin the mix.

For best results create a thin mix and paint the whole building as this will ensure all the cracks are covered as

	<p><b>NS02</b></p> <p>We use these to provides the windows in this building</p> <p>KEY MOULD</p>
	<p><b>NS06</b></p> <p>We use this many times as it provides the main stone tiles as well as the end gables</p> <p>KEY MOULD</p>
	<p><b>NS10</b></p> <p>This one produces a selection of abutments.</p>
	<p><b>NS12</b></p> <p>This mould gives the main door and doors of the building.</p>

well as cover any glue that may be on the face of the building.

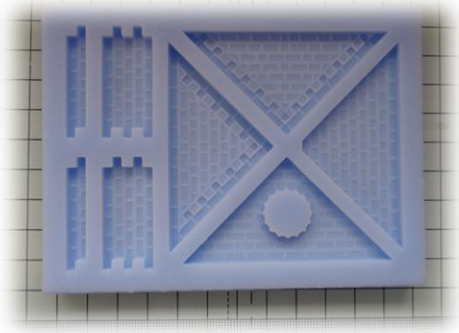
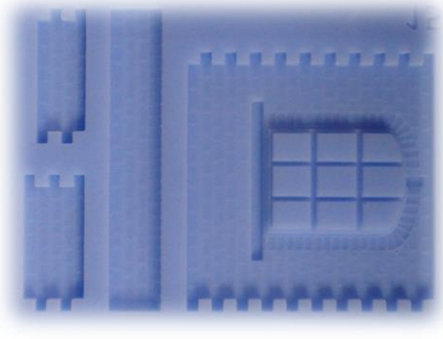
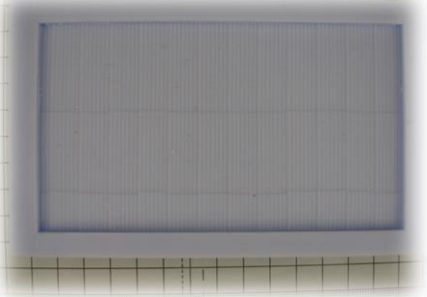
Now you can mix the colour you want and paint the model.

A little practice on a few spare parts is always the best way to test, so you can achieve the desired results.

We have several painting workshop articles on our sister website [www.linkaonline.co.uk](http://www.linkaonline.co.uk)

### Inside Information

Did you know we have several areas where we post updates, we have several Facebook pages, we are also on twitter and you can subscribe to both our websites to get our newsletters and a host of other information

	<p>NS13</p> <p>We use this to produce the gable ends and the small wall pieces.</p>
	<p>NS15</p> <p>This mould is used to make the main windows in the build, plus the low wall abutments.</p>
	<p>CM10</p> <p>This is a corrugated roof sheet with overlapping sheet effect.</p>

*So now we have seen all the moulds and what they look like we can get on with the plans and start our building*

**You will need to pour the moulds the following number of times:-**

**NS01..x..1**

**NS02..x..1**

**NS06..x..2**

**NS10..x..5**

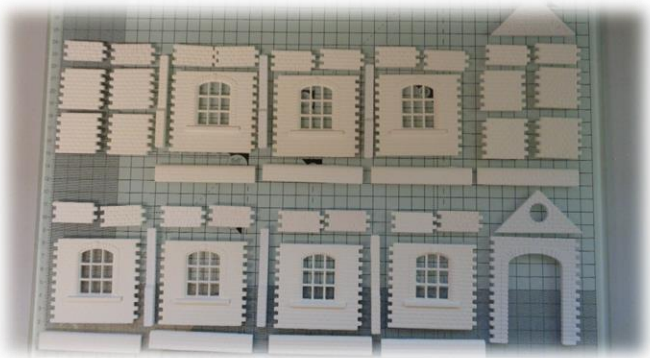
**NS12..x..4**

**NS13..x..3**

**NS15..x..8**

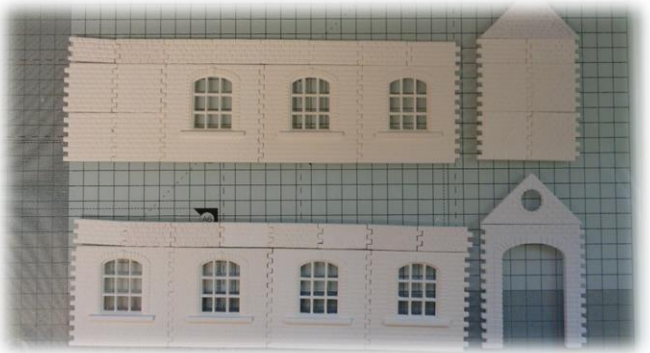
**CM10..x..4** Different roof moulds are available.

CM37..x..1 Optional you can choose a different style if you prefer.



When all the casts are dry start by laying them out as per the picture.

This will give you an idea of what the building should look like.



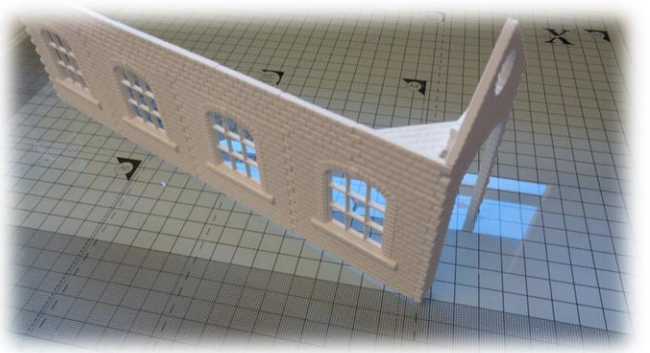
Then do a dry run this will make sure all parts fit together well.

Note- If you are casting with plaster as shown here then you will use a good PVA and if your using resin parts then you need to use superglue



Note- It is a good idea to use a greaseproof paper on your worksurface as it stops any glue that may be on the surface sticking to your workbench.

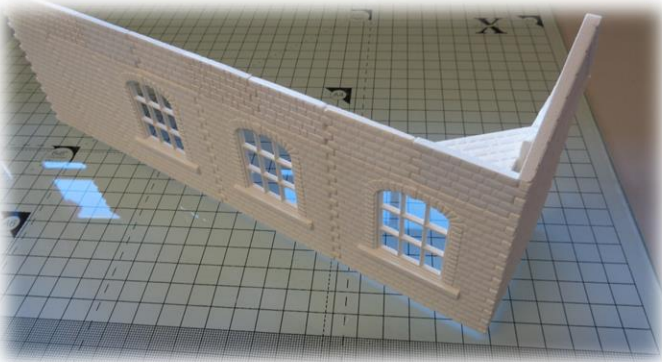
It is usual to put the casts face down and glue together, but this will not work with the window casts on this model because of the window cills. Therefore glue them together face up.



Don't worry if you have a few gaps in the fingers or joints as we will deal with them a little later.

When the wall sections are dry you can begin making the building by glueing the door wall to the left hand window wall.

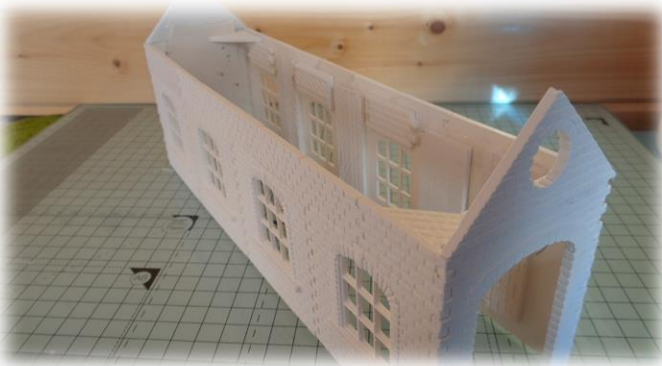
Ensure they are held at perfect right angles to get a better build.



Now repeat with the other end wall and the right hand window wall .

As per the picture.

Again ensure they are at right angles.



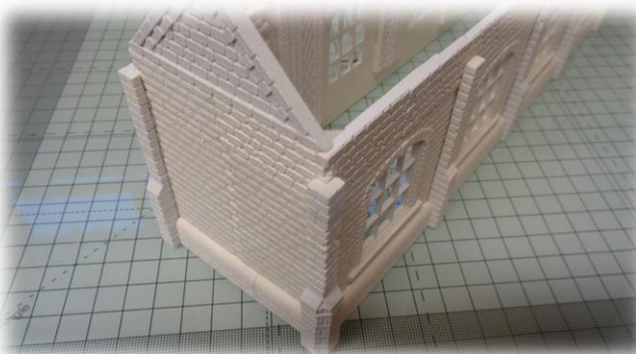
When the 2 wall sections are dry glue them together to make a complete shell of the building.



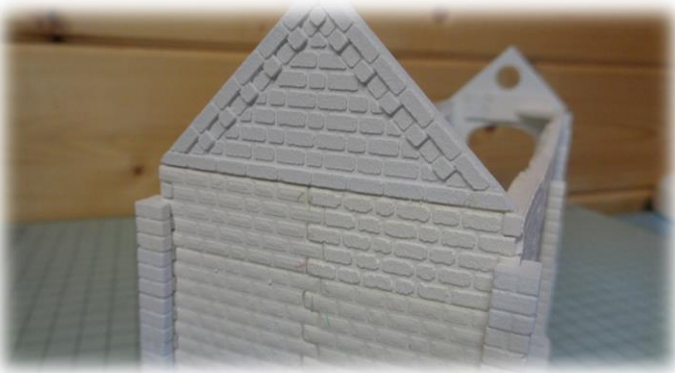
The next step is to add the abutments to the building.

You will find this easier to do if you lay the building on it's side.

You can omit this part if you do not like the look of them.



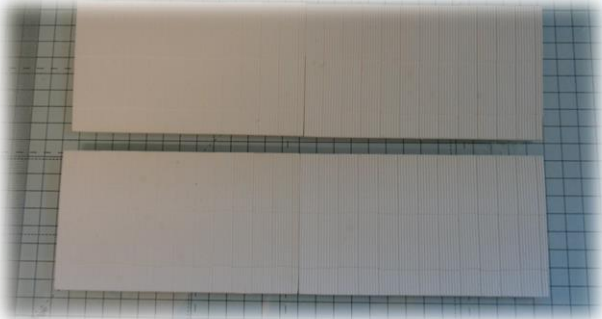
The corner abutments are made up from NS10.



They do not need to reach the top of the walls to allow for the roof overhang.



After the abutments have dried, add the low wall abutment pieces.






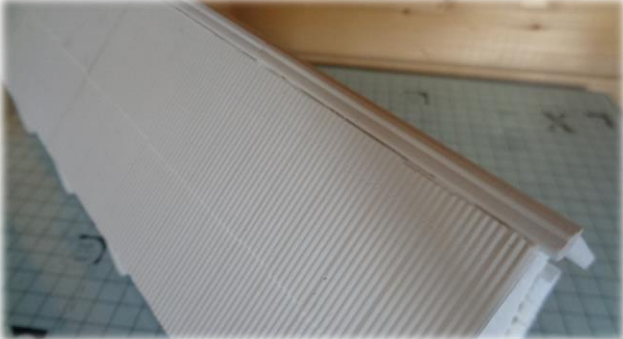

Take the four roof casts and glue them together into two pieces. Face down this time and add odd spare cast across the joint for added strength.


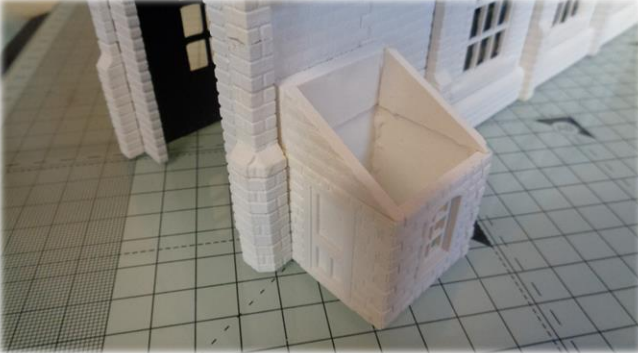
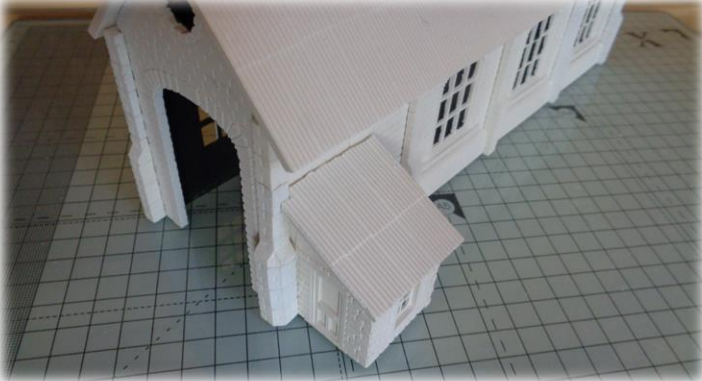



When they have dried.

Measure the size of the roof needed and carefully cut them with a fine tooth modeling saw.



	<p>Now take 4 of the door casts, glue them in pairs so that the detail is on both sides.</p>
	<p>The 2 roof pieces should now be glued on to the building.</p> <p>As with all builds tilting the building at an angle so that the roof is virtually flat will make the job easier.</p>
	<p>Now fit the ridge tiles.</p>
	<p>You can see in this picture that we have used different ridge tiles,!!! The choice is yours which type you would like on your building.</p>
	<p>Optional section.!</p> <p>These parts are used to make a small office that can be fitted on the side of the building.</p> <p>Do a dry run then glue the pieces together to make the office.</p>

	<p>This is how the office will look if it is mounted on the right hand side, if you want it on the other side then just swop the door with the plain wall, this will reverse the lay of the office.</p>
	<p>When the office is dry glue in position to the side of the engine shed.</p>
	<p>Then add a piece of roof sheet.</p>
	<p>You should have some roof sheet left over from the main roof.</p>



We are now ready to move on to the painting stage.



A hint to painting:---- here we have used a sponge head type brush with very little paint on it and dabbed the building all over with a dark grey acrylic paint.



When the first coat is dry apply a second coat using the same method but this time with some brown added to the mix of paint.



Ensure no bits have been missed. You can add more or less paint it is your choice. Remember the old adage "Less is More"



Now move on to painting the windows and doors.



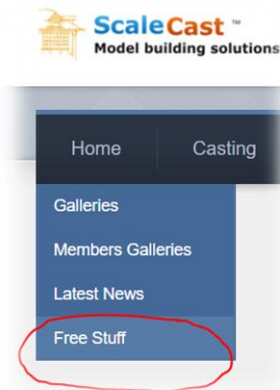
Next job is to paint the roof, this is done with a fairly wide ordinary brush. We have used silver grey as a base coat, allow to thoroughly dry.

Then Red ochre on top, this is a very watery mix dripped on at the top of the roof and allowed to naturally run down.



You can add other colours if you wish, like green to represent moss and weed growth.

Well done you have now completed the build.....



**All our building plans are FREE.**

If you want more building plans, they are free to download on our website [www.scalecast.co.uk](http://www.scalecast.co.uk)

## Inspiration

The great thing is that you can make many variations of buildings, just by adding more moulds from our range to extend on your ideas. They are all “MIX and MATCH”



Adding to your collection of our NS range you can build literally hundreds of different buildings and the great thing is our moulds will last for many years.

Here is another stone building that shows off our Victorian slate roof. So, by adding this mould you can make something like this.



Low Relief Stone Building

Terrace Houses

Village Shops

Water Wheel

We are extending our range of moulds all the time, so you can build many more exciting realistic stone buildings. All you need is lots of casts and some imagination [www.scalecast.co.uk](http://www.scalecast.co.uk).

All our building moulds are in one place so you can find them easily <https://www.scalecast.co.uk.html>

Happy Building .....