



# Korber Models

Scale Model Railroad Structures

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## Model 912 O Scale 29”L x 9”W x 9”H ROLLER BEARING COMPANY

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### Introduction

Anything that moves generally has some sort of bearing in it, axle systems, gear box, engine motors. As industry relied more on powered machines to get work done, the need for these bearings grew and there to fill the need is the Roller Bearing Company. This sizable factory serves as a vital hub on your railroad providing jobs, a destination and source of freight and a great addition to your pike right at home in the steam through the transition era. This model is a two story brick industrial building with unique skylights that is a perfect fit on your railroad.




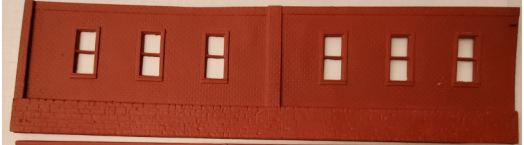
The Korber Roller Bearing Company model includes molded brick details roof top details, covered loading dock, roof top skylights and injection molded windows to bring life to your model railroad. Buildings like this are still in use across the land serving different uses in the community. This structure fits nicely as a key business on your layout ranging from steam thru modern era.

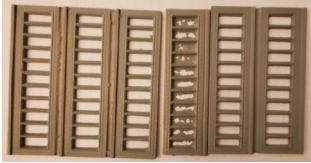
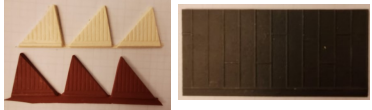











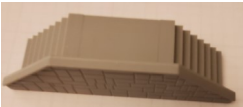




It includes easy-to-follow assembly instructions. Once assembled this model has approximately a 9” x 29” footprint. You can follow the simple, step by step instructions outlined in this document to easily assemble this great looking addition to your layout. We have covered not only the key required steps to build the building so you can get it on your layout the quickest, but have also included several optional steps to enhance the appearance. These enhancements are based on submissions from modelers just like you who have taken the Korber structures to the next level, and now by following a few extra steps you can achieve the same results.

Before you start you may want to read through the instructions to get a feel for the things you will be doing, and the basic order in which they will be done. You are on your way to adding a centerpiece to your layout, so let’s get started!

### Parts list & Templates – (What’s in the box)

Take a few minutes to locate all the parts in the box to make sure you have all the pieces you will need and that the quantities are right. You may also want to spread these parts out so that you have a small separate stack of each part and make it easy to find each as you start the assembly process. If you are missing anything, please contact us so we

Qty	Description	Qty	Description
1	Side Wall w/ 2 double doors & 4 windows  <b>SIDE WALL #1</b>	1	Side Wall w/ Loading Doors and 8 windows  <b>SIDE WALL #2</b>
1	Single Story Side Wall w/ 2 Loading door 4 windows  <b>SIDE WALL #3</b>	1	Single Story Side Wall w/ 6 windows  <b>SIDE WALL #4</b>

Qty	Description	Qty	Description
6	Skylights Windows 	12	Skylight Side Walls 6 right 6 left
		6	Skylight Roofs 
1	Single story End Wall w/ door & 2 windows 	1	Single Story End Wall w/ 3 windows 
1	2 Story End Wall w/3 windows & Angular Roof Support 	1	Skylight Flat roof 
1	2 Story End Wall w/3 windows & Horizontal Roof Support 		
1	Large Sloped Roof w/ opening 	5	Down spout Wires 
1	Small Sloped Roof 	15	Cotter Pins 
1	Loading Dock Stairs 	2	Loading dock deck 1 @ 14 1/8" 1 @ 12 1/16" 
1	Double Stairs w/ foundation wall Cut in half and glue Steps together 	2	Loading dock roofs cut to length 
2	Small chimneys 	2	Loading dock Roof Beam, 1@ 14 " & 1@12 1/8"
1	Large stovepipe with tops 	5	Loading Dock Posts 3 1/4" 1/4" wood 
2	Clear sheets for Window Glass	9	Deck Support Beams 1 @ 6 7/8", 2@ 6 9/16" 1 @ 4 3/4. 5 @ 1 1/2" These are 1/8" wood
		20	Deck Support Braces w/ 45 degree ends 1 1/4" 1/4" wood

## Materials needed – (What else might I need that is not included)

The Korber Building, like any kit, requires a few additional items to complete the construction. We have included a list here, including some color and brand suggestions based on our experience; however you may use any product that fits the function. Please also note that some items are listed as options such that they either make assembly simpler, or are needed only for optional steps

Flat paint, choice of colors, for doors, windows, trim

"Red" automotive primer spray paint to cover all molded brick surfaces such as Krylon Ruddy Brown

Antique white craft paint for cement lines

CA glue accelerator (optional) (turns any CA glue into quick set glue (optional))  
Medium grit sandpaper or emery board  
Testor's Dull-cote™ (optional)  
Small clamps (optional)  
Flat black or grimy black spray paint (optional)

## 1 - Parts preparation & painting

Look over all the molded parts and remove any flashing that might be left on them. Flashing is the thin pieces of the molding material that may be left in widow openings and along edges in the molded parts. This can quickly be removed with a razor type knife, a small file, or an emery board. Some may require more grooming than others. Then it is time to wash parts with soaping water to clean off residue from mold release agent. Dry completely.

The parts in the kit will need to be painted to the final colors you select, and it is much easier to do this step before you assemble them. All the wall sections come colored in a brick red, brown or yellow coloring, however many modelers find a light coat of flat red automotive primer spray paint gives not only a great look, but also makes it easier to add the mortar color lines to the walls later on. In a well ventilated area (outside is good) apply a coat to the inside (smooth side) of all the brick wall sections first; once dry, do the same to the other side. By painting the **BACK** side first you avoid any marks that might appear on the brick textured side.

Use a similar process for the window frames and doors. You may want to paint both of these types of pieces the same color to create a theme for your building. You can use masking tape around the windows and doors and then use pray paint to get the color or use acrylic paints.

The internal wooden pieces do not need to be painted as they are for structural support only.

### Option

An optional step that adds a great deal of realism to any model of a brick building is to add the mortar lines to contrast with the red brick color. The ability to lay the wall sections on a flat surface, when done prior to assembly, makes this detail step simpler. There are several ways to do this, including use of water based paint (Antique White or Light Grey latex well diluted with water until the consistency is as thin as milk), some commercially available products, and the use of light spackling compound to fill mortar joints. In all of these approaches the general concept is to spread the white product you are using over the brick walls, filling in the mortar line grooves in the wall section, and then removing the excess from the top of the bricks. We will walk through the water based paint method.



One simple method we have used is to dilute some water based antique white or light grey craft paint to create a soupy like consistency.

- Cover entire wall section with diluted white paint, letting it settle and collect in the mortar lines
- Wait a few seconds and lightly wipe off excess paint using a slightly damp paper towel or soft cloth until paint is removed from the brick surface, but not the mortar joints
- Keep flat and let dry before moving so the paint in the joints does not run
- To remove haze from brick surface, apply a thin layer of Dull-Cote and wipe gently
- It may require several applications to achieve the mortar line that you want

The good news with this option is that if you don't like it, the paint is water based, so you can get it wet, remove it, and start over.

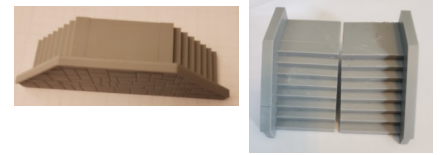
The foundation should be painted a cement or light grey color once assembled. There are other cement details that also can be highlighted with the cement color you choose.

Once dry, this area should be washed using a mix of either watered down black paint, or alcohol and India ink. The purpose of the wash is to settle the black color in the grooves/joints around the bricks and give definition. The wash should not be so dark as to overpower the cement/light grey color.

## 2 - Assembly of Steps

The steps come in one molded step with side wall. They need to be cut in half and glued together to form a set of cement steps with side walls.

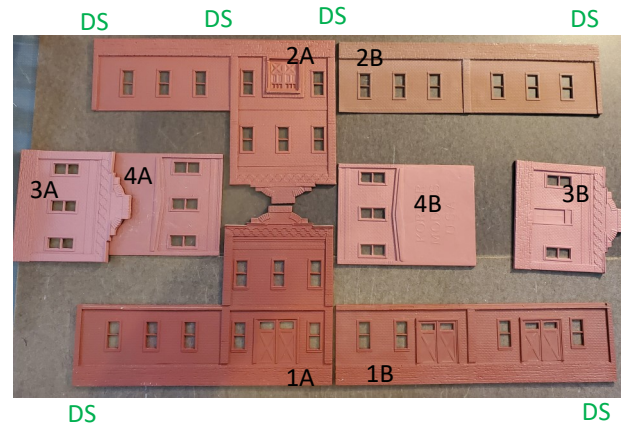
- Sand and trim parts to match up.
- Place a small amount of glue along the edge of steps then attach to other side, that way the glue won't show above the steps
- On the step for loading dock, just glue edge to loading dock decking and small dab of glue on wall when assembled.
- Once the steps are assembled and the glue has dried, the piece should be painted a cement color and left to dry



## 3 - Assembly of Main Structure

It is time to assemble the Building Walls- Look at wall section sketch.

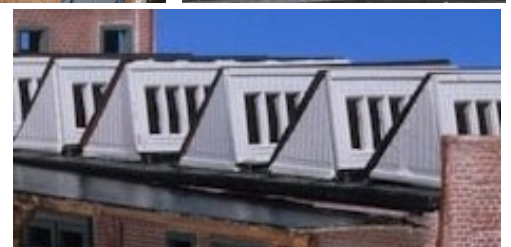
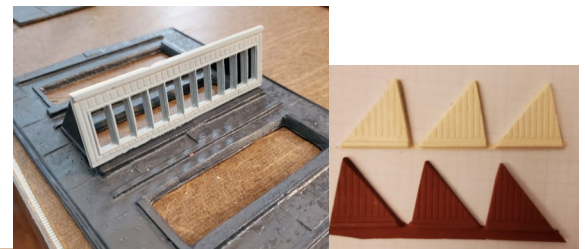
- Some Slight sanding may be necessary.
- To glue wall sections together make sure they are square to base.
- Line up walls properly and tack with super glue, bottom, top. center. Use glue sparingly.
- Now apply a bead to glue on inside corner of wall section.
- Repeat same throughout.
- Glue in place the wood roof supports on the inside of 3A and 3B.
- After you dry fit the roofs in proper locations, glue down
- Bend downspouts according to sketch—location indicated by DS (Shape is on the loading dock diagram)
- Use 2 cotter pins for each down spout. Drill small hole to accept the pin and the attach small drop glue to downspout pipe at cotter pin.



## 4- Building the Skylight Roof and others

To make the skylights, locate the roof and skylights, skylight roofs and side triangles. Make sure are pieces are trimmed to fit.

- On the openings in the roof, the side with the wider sill is where the skylight will sit on.
- Place the triangles along the sides with the stripes facing upward. They may need sanded to make a proper seal between skylight and roof pieces.
- Once all are made, let glue dry thoroughly. Then place clear plastic in the skylights from underside.
- Then place and glue in place on the building with skylights facing toward the end of building.



## 5 - Build and Install Loading Dock

Find the 2 pages that represent the loading dock. Overlap the second 1" on the first to make a complete dock. Cover with wax paper or plastic wrap so you can glue dock parts together without them sticking to diagram.

- Lay out parts according to diagram then glue together. Make sure the long pieces align with middle support beam. Once all dry, turn over and add the rest of the supports that hold the decking.
- Dry fit the loading dock top of the loading dock base you have just attached to the building, some light trimming or sanding may be needed to get a tight fit to the building just below the loading dock doors. Once you are satisfied with the fit, glue the loading dock top to the base and the rear of the building.
- The loading dock roof has a black tar look to it that faces up, and attaches to the rear of the building in a slot above the freight doors. Make sure loading dock roof sections match up over 3rd support beam.
- Then it is time for the loading dock roof to be placed and glued down. Then add the side steps to side of dock.

## 6 - Final Detailing – Weathering

If you have not already done so, place and glue the steps assembled in an earlier step in front of the side and front doors.

You can now add the down spouts to your building. Locate the side of building desired for the down spout, then drill a small 3/64 diameter hole in wall at top and bottom for the cotter pin anchors. Next bend the green down spout wires to acceptable shape and size and fit in the cotter pin circular ends with a dab of glue.

Your Korber Building is now assembled and ready for placement on the layout. You may wish to provide some additional weathering before you install it as a building next to the tracks would be a heavily used structure with a layer of soot, and would rarely look brand new. There are 2 smoke stacks for roof if desired. Just glue them to flat roof parts.

To add a weathered look, spray the entire model with flat black from a distance. This will give a sooty look to the building. Once done you can spray the completed structure with Dullcote to remove any gloss or shine.

If you choose not to detail the inside of your structure, or light it, an effective and quick way to make a good looking background building is to cover the widows with black construction paper from the inside. This creates a dark building look that is more desirable than the view in to an otherwise empty shell of a building.

