



HO Scale Structure Kit

KRAFT MILL

933-3900

Thanks for purchasing this Cornerstone Series® kit. All parts are styrene, so use only compatible paint and glue. Please read the instructions and study the drawings before starting.

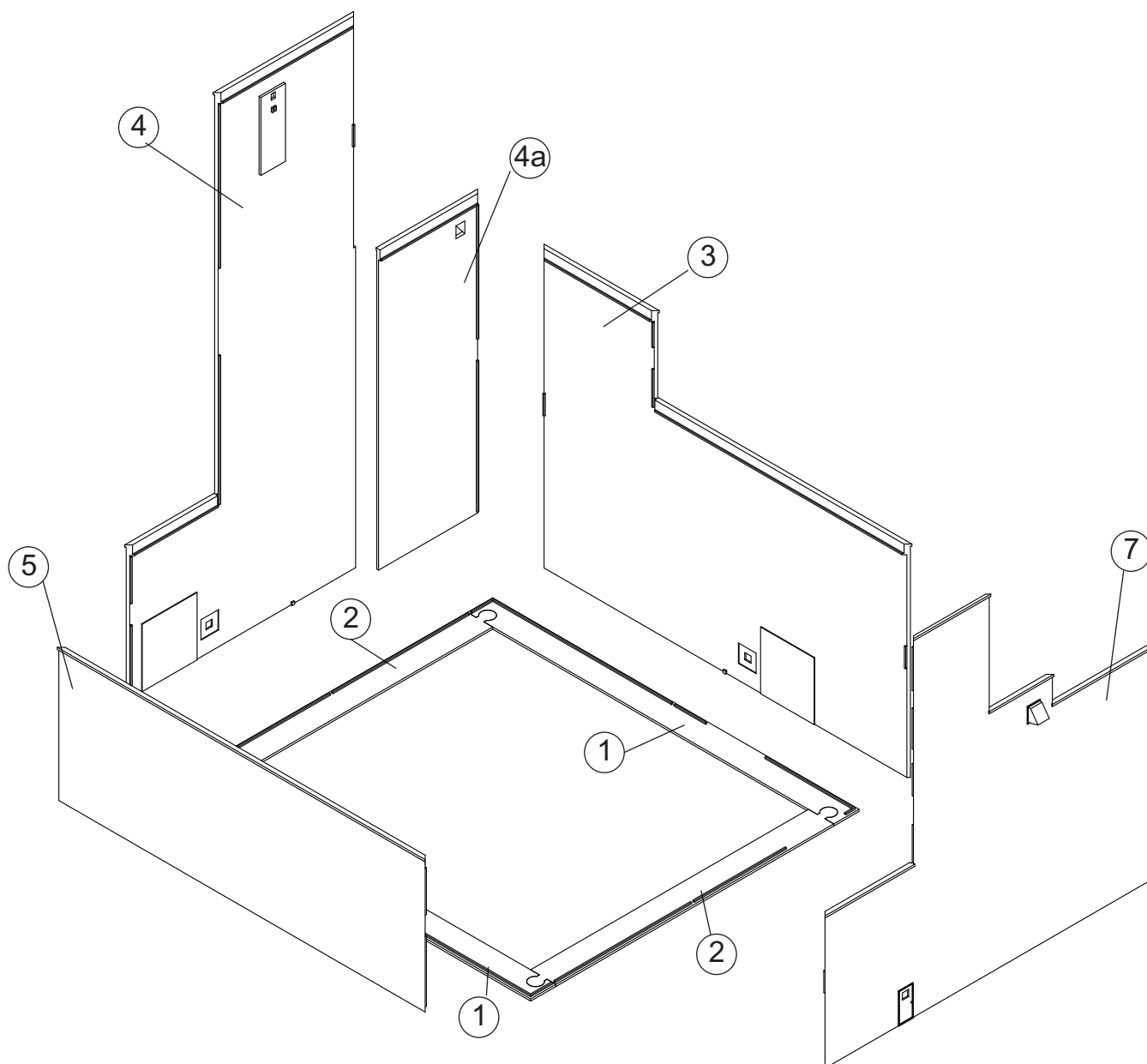
The basic ingredient of paper is cellulose fiber, made by “cooking” wood chips in a hot chemical bath to remove the natural glue or lignin that holds them together. This produces pulp for lower grades of paper such as newsprint. But since lignin decomposes quickly and stains, pulp for bright, white papers is cleaned more thoroughly in the kraft mill. After several hours in a heated, pressurized chemical bath in the pulp tanks, the resulting pulp or “Brown Stock” is sent to the kraft mill where it is washed several times to remove spent chemicals for recycling, along with solids and water (“black liquor”), which are burned as bio-fuel in a recovery boiler. The pulp is bleached, washed and diluted, then mixed with fillers such as talc or kaolin. This slurry, called “furnish,” is 99% water and is pumped into the paper machine to begin the manufacturing process in the main mill.

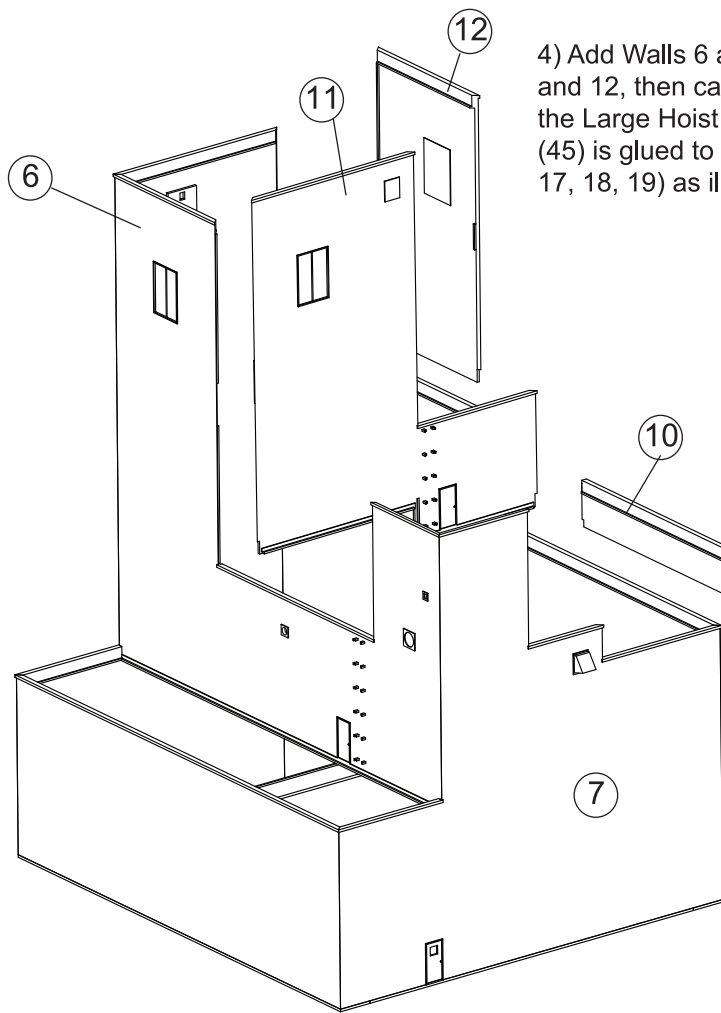
To model a complete operation, combine this kit with the Pulp Tanks (#933-3904), Recovery Boiler (#933-3901) and Paper Mill (#933-3902), each sold separately. See your participating hobby shop or visit walthers.com for additional structures, freight cars and other accessories.

1) Begin by assembling both Long Base sections (1) to the Short Base Sections (2).

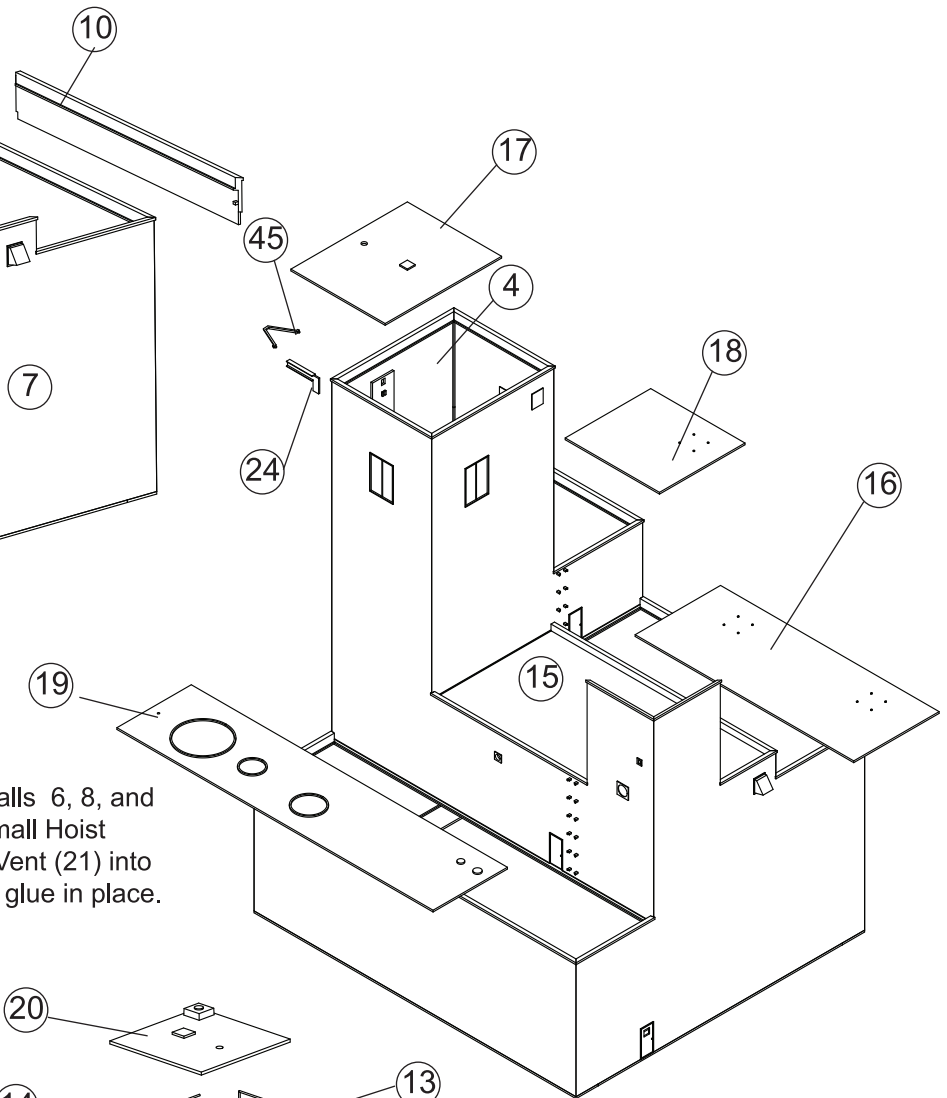
2) Before gluing, test fit Wall 4 in the cutouts on Wall 4A. Make sure the wall assembly sits level on the base, and the edges meet tightly. Glue together and allow to dry thoroughly. Make any adjustments to either part if necessary to insure a seamless appearance. Glue together 4 and 4A, and again - carefully check the alignment. Let the assembly dry thoroughly.

3) Glue Walls (3, 4, 4A, 5, 7) to each other and to the Base as shown.

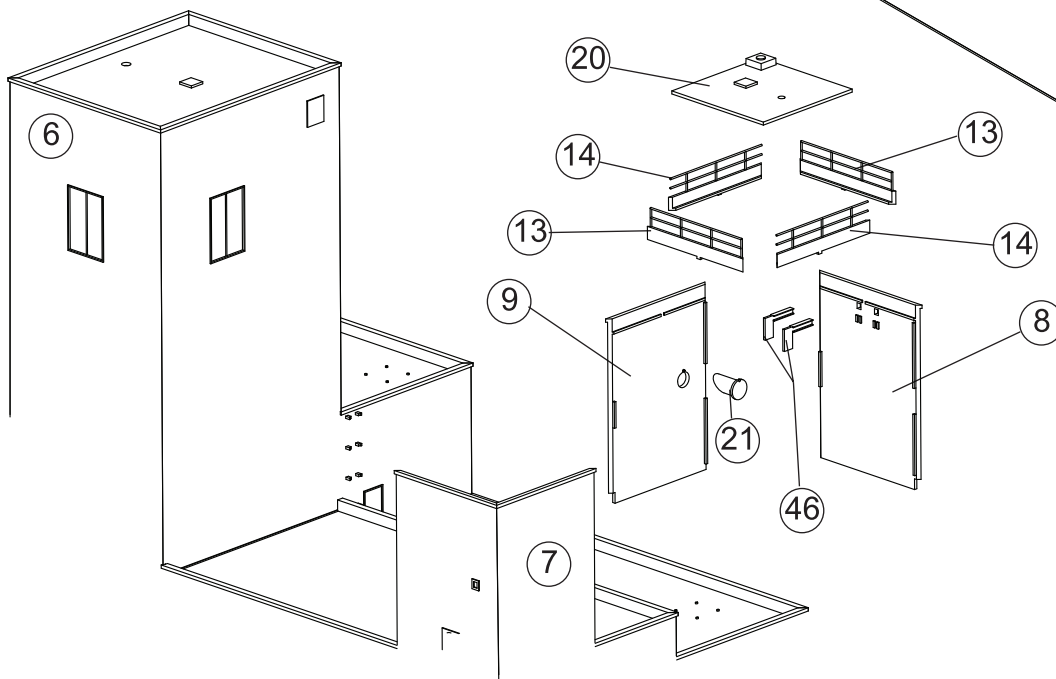


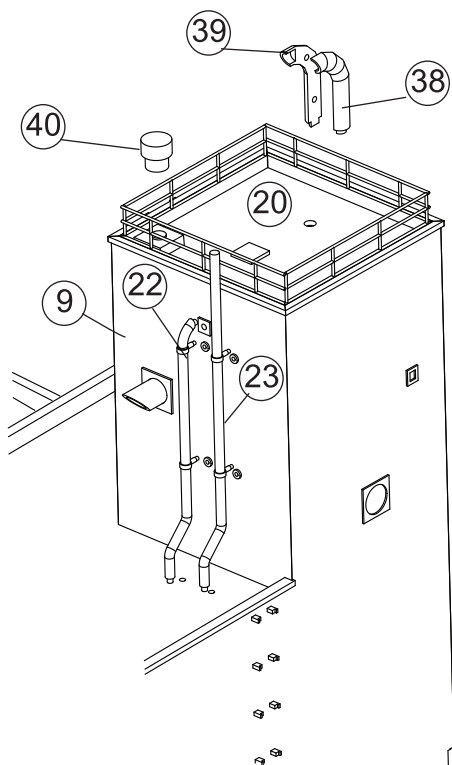


4) Add Walls 6 and 11 to the assembly completed on page one; test fit Walls 10 and 12, then carefully glue in place. Using the alignment tabs as a guide, insert the Large Hoist Beam (24) from the inside of Wall 4, and glue in place. Brace (45) is glued to Wall 4 and the Hoist Beam from the outside. Add Roofs (15, 16, 17, 18, 19) as illustrated.



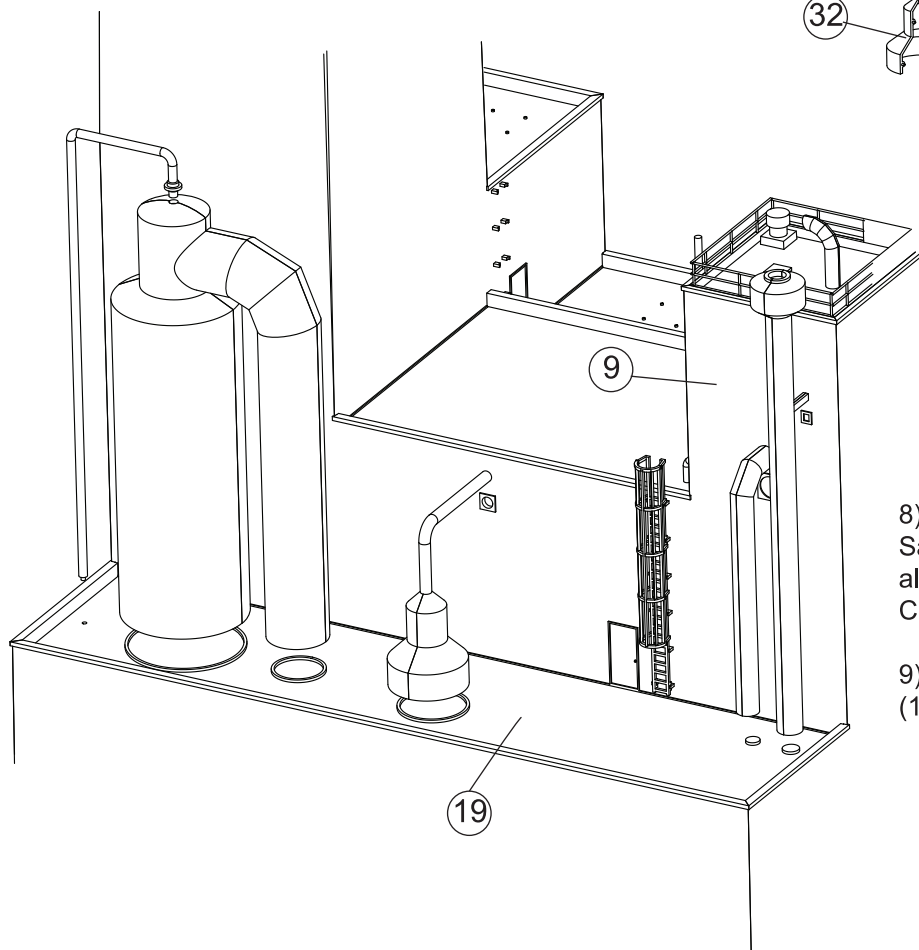
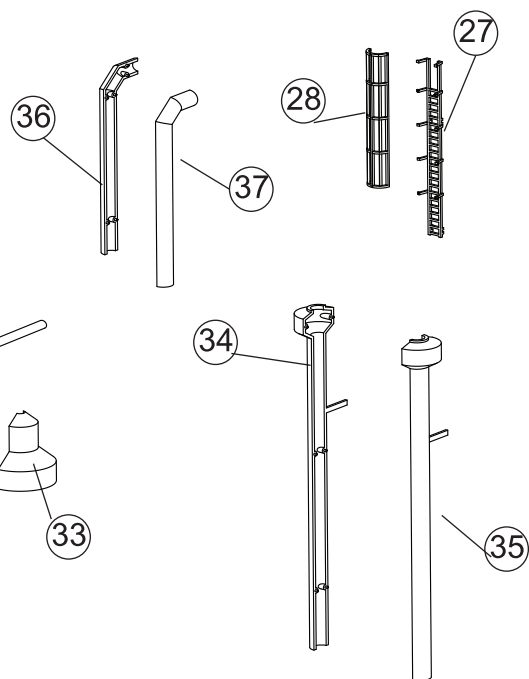
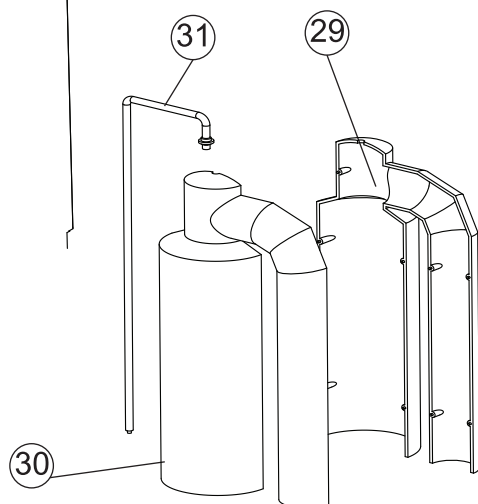
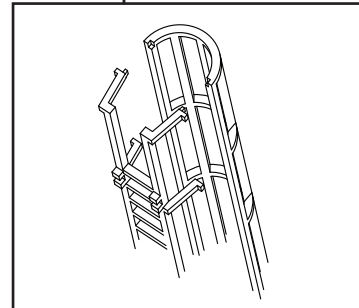
5) Glue Walls 8 & 9 to assembled walls 6 & 7.
6) Glue Railing Sections (13) to the top rear of Walls 6, 8, and Railing Sections (14) to the Walls 7, 9. Insert small Hoist Beams (46) into Wall 8 from behind, and Angled Vent (21) into Wall 9 from behind, using the alignment tabs and glue in place. Add roof 20 as shown.





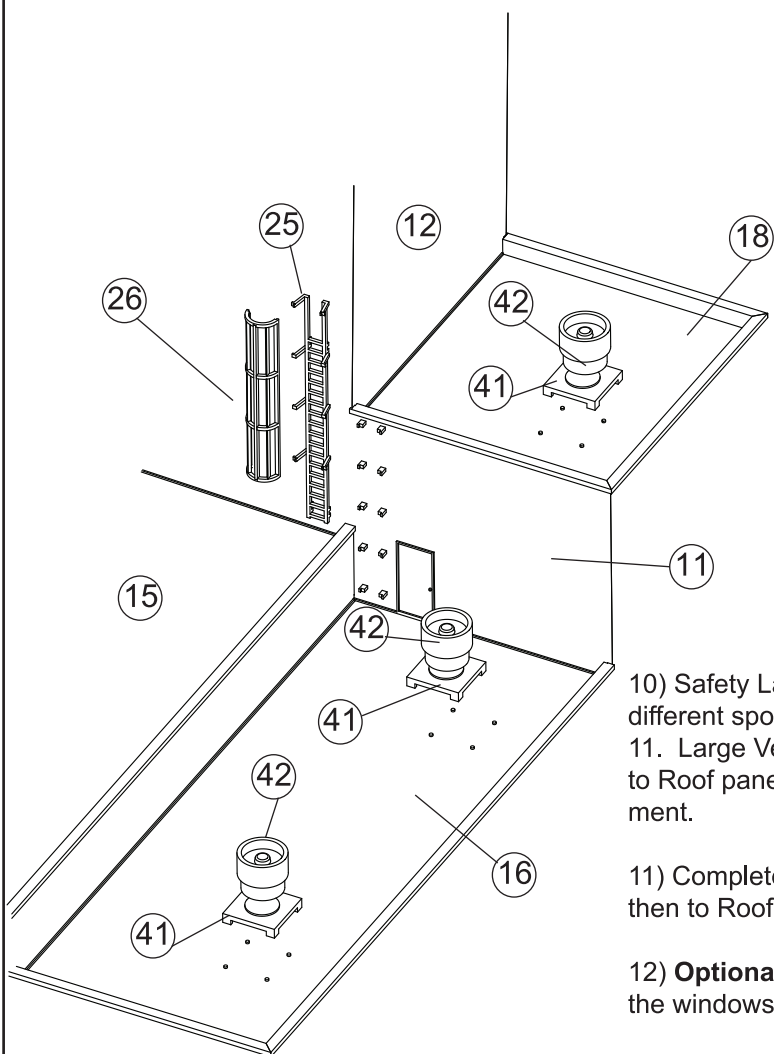
7) Add pipe sections (22, 23) to Wall 9. Glue Curved Vent halves (38, 39) together, then to Roof 20, along with Small Vent (40).

Close-up of Ladder Tabs



8) Assemble Vent and Pipe sections as shown. Safety Ladder (27) and Cage (28) have special alignment tabs for proper assembly. (See Close-up of Ladder Tabs Above).

9) Glue the assemblies from Step 8 to Roof (19) and Wall (6).



10) Safety Ladder (25) and Cage (26) have special alignment tabs - in different spots from the other ladder assembly. Glue together, then to Wall 11. Large Vent Base and Top sections (41, 42) are glued together, and then to Roof panels (16, 18), using the guide pins on the roof surface for placement.

11) Complete the model by gluing Upper Stack sections (43, 44) together, then to Roof 17.

12) **Optional:** Cut three pieces of acetate 13mmx13mm for placement in the windows of the ground floor doors.

Applying Decals

1. Cut out the decal and dip in water for 10 seconds. Remove decal from water and let stand for 1 minute. Slide decal onto surface and into position. Blot off any excess water.
2. Lightly brush Micro Sol® on top of the decal. This will soften the decal allowing it to conform to any irregular surfaces. DO NOT TOUCH DECAL while wet!
3. When the decal is thoroughly dry, check for any trapped air bubbles. Prick them with the point of a small pin or hobby knife blade and apply more Micro Sol®.

