

RAINETOWN

MADE
IN
THE
USA

HO scale (1:87) craftsman model kit

RaineTown Depot is a small, simple, back-woods station that will be at home on any layout. The inspiration for this model comes from a scratch-built structure on Dan George's *Greenbrier & Pocahontas Central Model Railroad*. Images of Dan's layout are available in the gallery section of the KingMill web site:

www.KingMill.com/gallery/

On further investigation it was discovered that Dan's model is based on the Forks Creek Station of the Clear Creek Railroad in Colorado. The original plans for that station were published in the Jan./ Feb. 1980 issue of the *Narrow Gauge and Short Line Gazette*, "Up Clear Creek: Forks Creek Station & Eating House" RaineTown Depot is drawn from Dan's scratch-built model rather than the *Gazette* drawings.

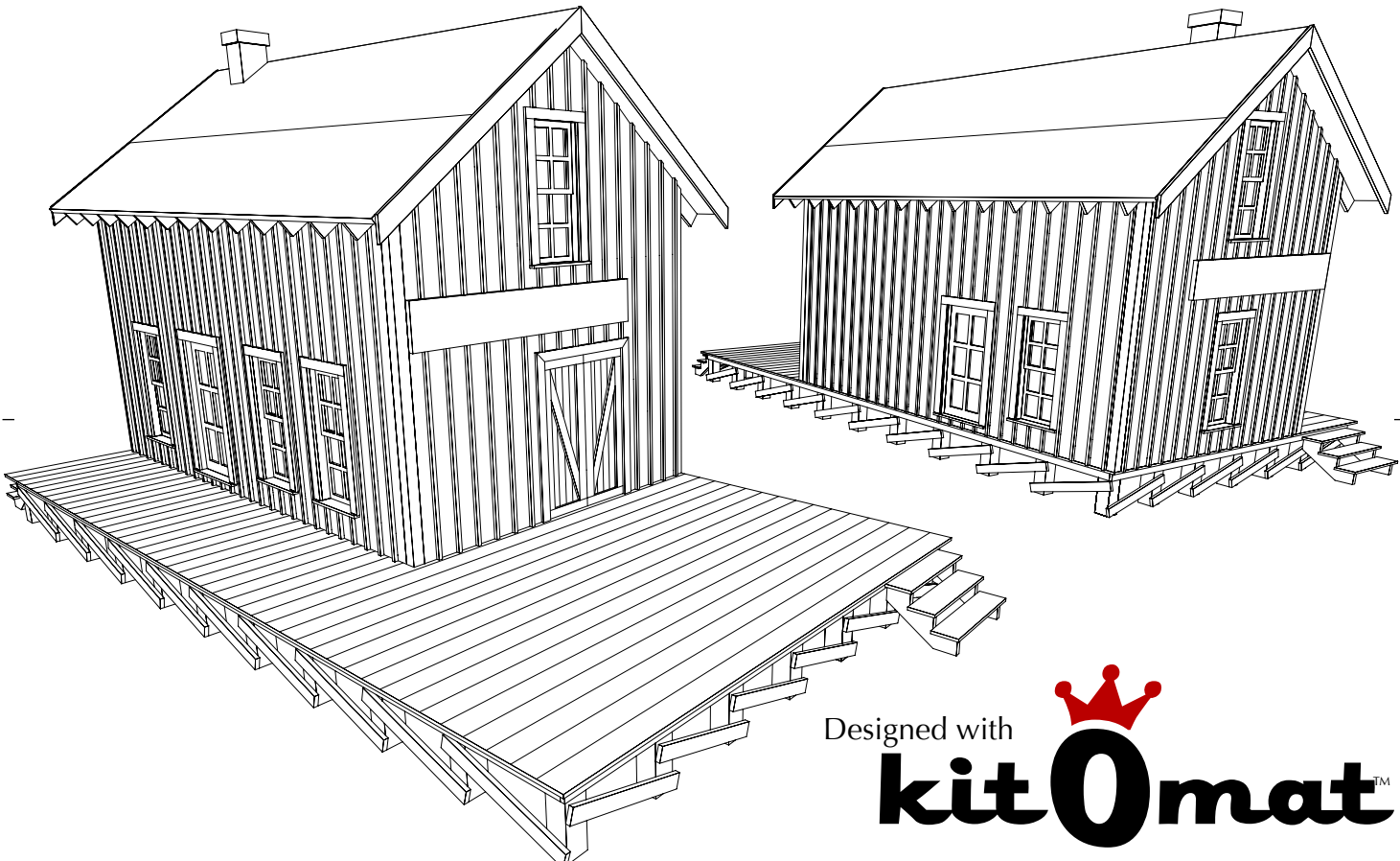
HO Scale Kit dimensions: 2.125 " x 3.5 " building footprint, 5.25" x 2.75" platform footprint.

Happy Modeling,

Chris Jessee, Owner
KingMill Enterprises, LLC.
203 Camellia Dr. Charlottesville, VA 22903-4208
chris.jessee@kingmill.com



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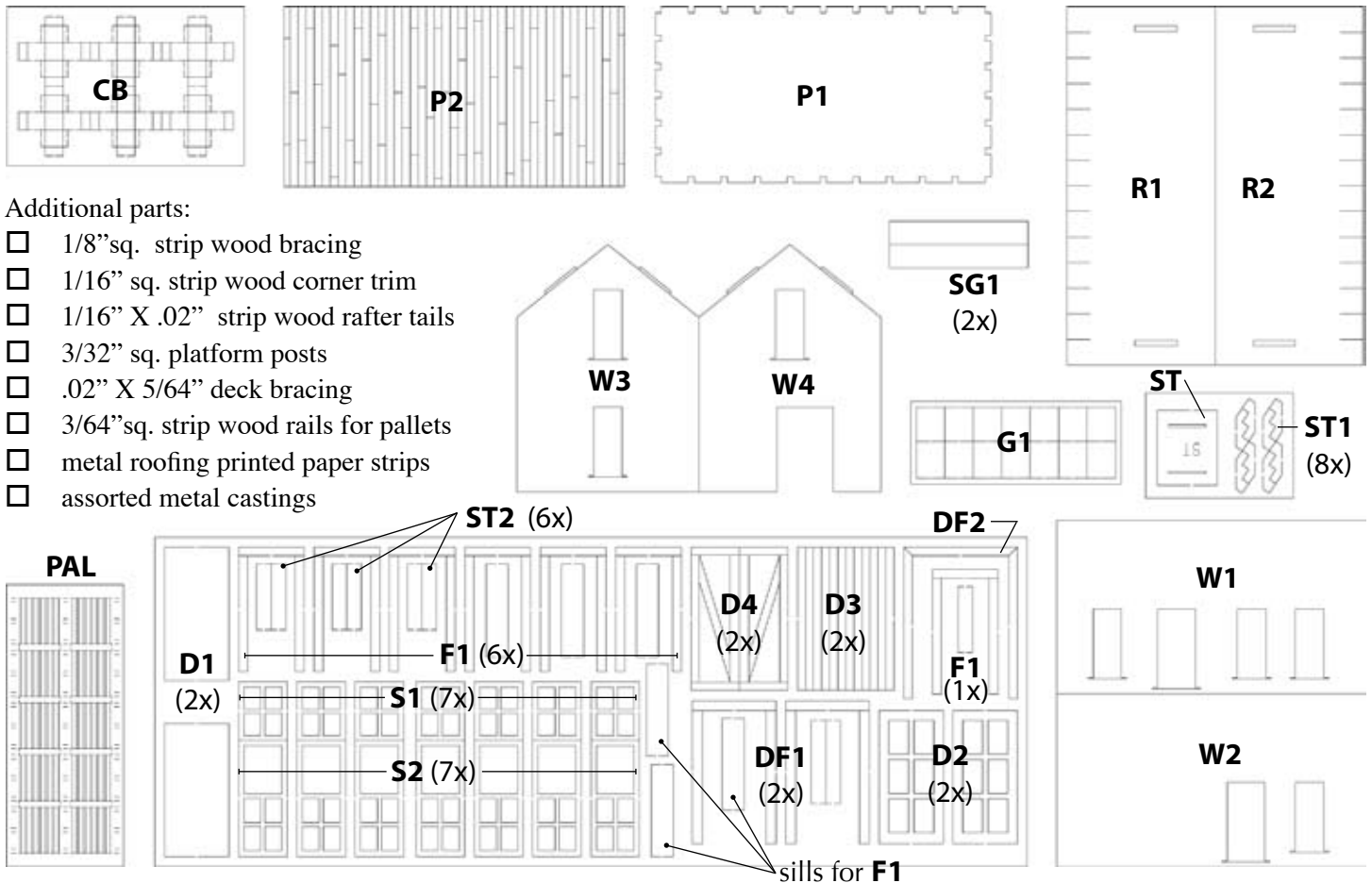


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kitOmat™

This construction manual is available on our web site: www.kingmill.com/

WARNING! This is a craftsman model kit, keep away from children. Contains small parts, choking hazard.

Parts List: confirm that all parts are included before proceeding with construction. Replacements for lost or damaged parts are available free of charge.



Additional parts:

- 1/8"sq. strip wood bracing
- 1/16" sq. strip wood corner trim
- 1/16" X .02" strip wood rafter tails
- 3/32" sq. platform posts
- .02" X 5/64" deck bracing
- 3/64"sq. strip wood rails for pallets
- metal roofing printed paper strips
- assorted metal castings

not to scale

Tools & Materials: A suggested list of tools, paints and materials for a successful project.

Tools:

1. Hobby knife and several new #11 blades.
2. Northwest Shortline's "The Chopper" for cutting strip wood to length.
3. Fine point tweezers for positioning small parts.
4. Paint brush sizes - 1/4", 1/8", 3/0, 10/0
5. Small wire brush for aging wood, Micromark, item number: 50300 or 50303

Glues:

Elmer's white glue, Franklin Titebond wood glue, Walthers Goo, 3M Super 77 and CA (cyanoacrylate) glue.

Paint & Stain:

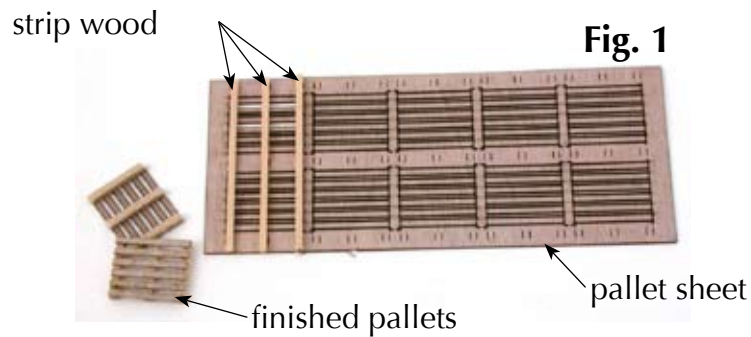
1. Polly Scale "Depot Buff", "Box Car Red", Grimy Black", "Reefer White" and "Zinc Chromate Primer".
2. Gray primer for wall base coat.
3. Black Alcohol Stain: mix 1 pint alcohol (70% concentration) with 2 teaspoons India Ink.
4. Pastel chalk for weathering. Your choice of earth-tone and grey colors.

- 1. **Weather Walls:** Rough-up the face of walls (**W1 - W4**) and platform decking (**P2**) using a small wire brush. Brush in the direction of the wood grain. The lower wall boards and platform edge should show the most wear as the upper walls and platform near the walls are protected by the roof overhang.
- 2. **Remove Battens:** remove battens around windows and doors where they will interfere with the door and window frames. Don't damage wall. Do not remove window and door frames from carrier sheet at this time.
- 3. **Brace Walls:** Glue 1/8" sq. basswood bracing to backs of side walls (**W1 & W2**) using yellow wood glue. Cut to length and glue 1/16" sq. strip wood to end walls (**W3 & W4**) to make corner trim. Miter trim to match the roof slope. Set aside and allow to dry, clamping if needed. See Exploded View on page 5.
- 4. **Weather Platform:** Use a sharp hobby knife to notch, split and remove chunks of wood around the decking edge (**P2**) and at joints between boards along the track side where loading and unloading occurs.
- 5. **Stain Platform:** Stain platform deck (**P2**), stair treads (**ST2**), stair risers (**ST1**), pallets (**PAL**) and strip wood for deck posts, deck bracing and pallet rails using a wash of black alcohol (1 pint alcohol, 70% concentration with 2 teaspoons India Ink.). Optionally mix in a small amount of Polly Scale paint (your choice of color) with the black alcohol. Polly Scale "Dirt" color works well to simulate weathered wood. Use a light coat initially as you can add more later if you prefer a darker shade.
- 6. **Prime Walls:** Spray a thin coat of flat gray primer on outer face of all walls. Use as little paint as possible to get even coverage. Don't saturate the parts with paint, airbrushing works best. Set aside and allow to dry.
- 7. **Prepare Castings:** Prepare metal castings for painting by filing or cutting flash and seams off castings with a sharp #11 hobby knife or file. Wash castings in mild dish soap and warm water, rinsing thoroughly. Set aside and allow to dry. Prime castings with gray Floquil® Figure Primer and set aside to dry overnight.
- 10. **Paint Windows: Do not remove window frames from carrier sheet to paint.** Brush paint or airbrush, windows, doors, rafter tail strip wood using Polly Scale "Depot Buff". Dilute the paint and apply a very thin coat repeating if needed to get the desired look. Dry thoroughly between coats. Avoid painting edges of windows and doors that contact the wall or these will have to be cleaned before installation.
- 11. **Paint Walls:** Brush or airbrush walls (**W1 - W4**) with diluted Polly Scale "Depot Buff" and set aside to dry on a flat surface. Don't saturate with paint, use a very light coat. Weight parts to prevent warping.
- 12. **Assemble Platform:** Glue platform boards (**P2**) to platform base (**P1**) using 3M brand Super 77 spray adhesive, in a well ventilated space. Be sure to center platform boards over platform base. Do not use liquid adhesive as it will warp the platform base. Double-sided tape may be used. Weight down and allow to dry.
- 13. **Platform Posts:** Using Northwest Shortline's "The Chopper", cut 32, 3/8 inch long platform posts from 3/32" sq. strip wood. Ensure both ends of posts are square by partially cutting through each post and then rotating it 90° and repeating a partial cut until you have made it all the way around the post. Lay platform assembly (**P1-P2**) face down on a flat surface and glue each platform post into the notches around the perimeter of platform assembly using yellow wood glue or CA glue. Be sure each post is vertical. Set aside to dry.



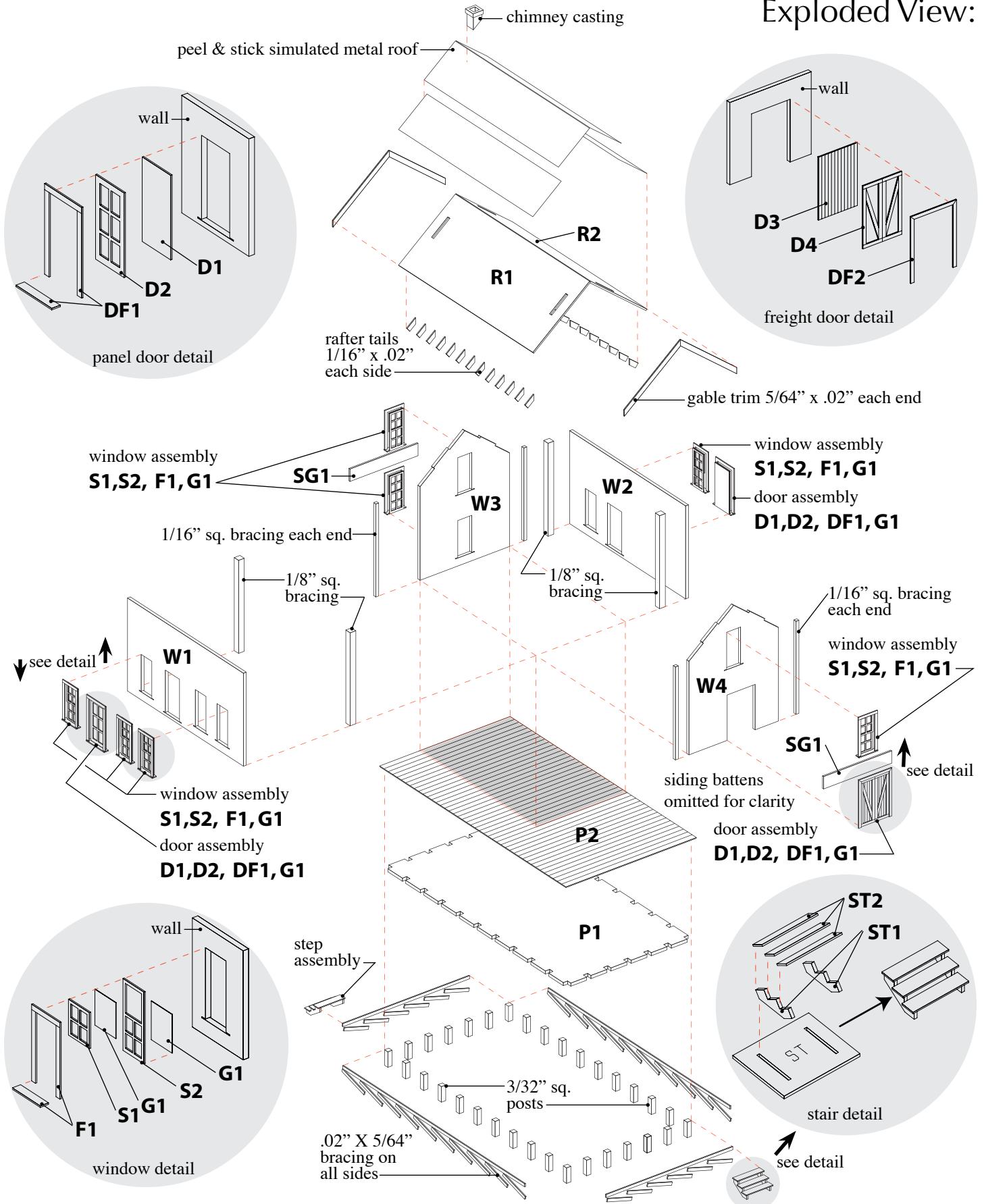
platform post length, 3/8 of an inch long

- 15. **Assemble Steps:** Assemble steps by inserting stair stringers (**ST1**) into stair jig (**ST**) and gluing stair treads (**ST2**) to stair stringers using CA glue. Do not glue stair stringers to stair jig. Repeat process to make a second set of stairs. Two additional sets of risers are provided to make stairs for your other projects using your strip wood as stair treads. See Exploded View and detail views on page 5.
- 16. **Assemble Pallets:** Assemble pallets (**PAL**) by gluing 3/64 sq. strip wood rails on the pallet sheet as shown in Fig. 1. Allow to dry and cut rails and pallet board ends to separate pallet from sheet. Cut straight down rather than in a drawing motion that will break the glue bond. Optional bottom boards can be added to the pallets by using rows of pallet top boards. Glue 3 boards across the bottom of the strip wood rails on each pallet. This will reduce the total number of pallets that can be made.

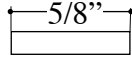


- 17. **Paint Walls (second coat):** Brush or airbrush walls (**W1 - W4**) with diluted Polly Scale “Box Car Red” and set aside to dry on a flat surface. Don’t saturate parts with paint, use a very light coat so some of the base color shows through. Weight parts down to prevent warping while drying.
- 17. **Paint Signs:** Brush paint edges of chipboard signs (**SG1**) with Polly Scale “Grimy Black”. Don’t saturate parts with paint, use only as much paint as needed to cover edge of sign or parts will warp.
- 18. **Paint Castings:** Brush paint castings your choice of colors, avoiding bright colors. Once dry, apply black alcohol stain to flatten the finish. Dry brush to add highlights using white or off-white paint.
- 19. **Install Roofing:** Lay roof parts (**R1 - R2**) on a flat surface. Rafter tail score lines along outer edges should be on underside of roof. Using a fresh, sharp, hobby knife and a metal straight edge, cut out adhesive backed metal roof paper. Cut out entire horizontal strips, not individual panels. The white paper edges can be painted with a small bush or colored with a gray magic-marker. Remove backing paper and apply the adhesive paper to roof parts (**R1 - R2**) starting at the edge with the rafter tail score lines underneath. Avoid touching the adhesive surface as it will not stick once touched. The adhesive is pressure sensitive so burnish down for best results. Slightly overlap the next panel for convincing results. Set parts aside for later installation.
- 20. **Test Fit Windows:** Carefully cut window frames, sills (**F1**) and sashes (**S1-S2**) from the carrier sheet using a sharp hobby knife. Only remove the parts needed for one window at a time. Working from the front, test fit the sashes and sill in the wall opening. Insert window sill first. See Exploded View (page 5) and detail drawings for placement. If the parts bow or are too snug gently scrape along its side edges to remove a small amount of the outside back corner using a sharp hobby knife. Alternatively you can scrape the sides of the window opening in the wall. The laser cutter leaves a bevel on the frames and openings as it cuts, eliminating this you can fine-tune the fit. Excess paint on window edges and wall opening edges should be scraped off.
- 21. **Window Glass:** Remove the clear polyester “window glass“ from its carrier sheet (**G1**) and glue the glass to the back of the window sashes using a very small amount of CA glue.
- 22. **Install Windows:** Position the window sashes into the wall opening and secure in place with a small amount of CA or yellow wood glue.
- 23. **Window Frames:** Glue the window frame (**F1**) around the opening using CA or yellow wood glue. Be careful not to get glue on the finished, painted wall surface around the frame. Use as little glue as possible. Repeat the above process for all frames.
- 24. **Doors:** Doors follow a similar sequence. See Exploded View and detail drawings for placement.
- 25. **Install Signs:** Using a fresh, sharp hobby knife and a metal straight edge, cut RaineTown Depot signs to fit sign frame (**SG1**). Glue sign to frame with a very small amount of white glue. Glue sign frame to building wall using yellow wood glue. See Exploded View and package photos for proper placement. You can easily make your own station sign on your computer or using rub down letters.
- 26. **Assemble Walls:** Glue the end wall panels (**W3 & W4**) to the side wall panels (**W1 & W2**), using yellow wood glue. Clamp walls together and allow to dry.
- 27. **Platform Bracing:** Glue .02” X 5/64” strip wood trim around perimeter of platform using yellow wood

Exploded View:



glue. Don't confuse the .02" X 5/64" strip wood for platform bracing with the .02" X 1/16" strip wood for rafter tails. The 5/64" strip wood is 1/64" wider than the 1/16" strip wood. Be sure the trim is under platform decking (**P2**) and glued against platform base (**P1**). Cut remaining .02" X 5/64" strip wood bracing into 5/8" lengths and glue diagonally to platform posts. See Exploded View on page 5 and package photos for reference. Leave some bracing off or split for a well worn rustic look.



platform bracing length, 5/8 of an inch long

- 28. **Install roof:** Lay roof parts (**R1 - R2**) face down on a flat surface and glue a 1/2" wide strip of paper along the underside of the ridge. This forms a hinge that holds the ridge seam together. Apply yellow wood glue along the gable ends of walls (**W3 & W4**) and place roof assembly onto tabs on gable end walls.
- 29. **Ridge Cap:** Apply the ridge cap metal panels to roof panels (**R1 - R2**) by folding the ridge cap in half lengthwise and removing the adhesive backing paper. Burnish down the ridge cap as the adhesive is pressure sensitive. The ridge cap panels are the narrow strip located at the top of the metal panel sheet.
- 30. **Rafter Tails:** Glue 1/16" x .02" rafter tails to each roof half (**R1 - R2**) using the score lines as a guide. Use a piece of stock slightly longer than needed, glue in place and once dry trim to length with a small pair of straight-blade nail clippers. Touch up the cut end with Polly Scale "Depot Buff".
- 31. **Install chimney:** Glue chimney casting to roof using Walthers Goo. See package photos for placement.
- 32. **Install Building:** Glue building to platform with yellow wood glue. See Exploded View for placement.
- 33. **Weathering:** Using a soft brush liberally apply black alcohol wash (no paint) to all the walls and allow to dry. With chalk colors that match your ground color, add a band of dust around the base of the building using a soft dry brush. Using black chalk add streaks down from chimney. Don't over do it, the effect should be subtle and you can always add more later. See package photos for reference.
- 34. **Pitch:** Pitch is a tar based sealant used around openings in roofs and walls. Mix a few drops of gray or black water-based paint into a small pool of white glue to make a convincing "Pitch". Apply around chimney and other wall and roof penetrations using a small scrap of strip wood or a tooth pick. Allow to dry thoroughly and apply a light wash of Black Alcohol to flatten the finish.
- 35. **Newspapers:** Newspapers make great debris - cut out with a sharp hobby knife, fold & wet newspapers with Black Alcohol. Glue down around base of platform or on platform with white glue.
- 36. **Boxes:** Cut boxes from the carrier sheet with a sharp hobby knife. Gently fold the glue tabs and box sides along the score lines. Apply a small amount of glue to each glue tab and press the box sides onto the tabs. Hold in place until glue takes hold. Fold lid in along score lines. Once dry, wet with Black Alcohol for an older looking box.
- 37. **Install Details:** Glue metal castings to platform using Walthers Goo. Glue Boxes and Pallets to platform using white glue. See package photos for placement of detail parts.

Be sure to check our web site [http:// www.kingmill.com/gallery/](http://www.kingmill.com/gallery/) for high resolution reference photos of the prototype building and display model.

Thank you for purchasing this RaineTown Depot. Please e-mail or call if you have questions about assembling the model.

Take care,

Chris Jessee, Owner - KingMill Enterprises
 chris.jessee@kingmill.com



newspapers for use as debris