

# COLORADO MODEL STRUCTURES

## Design Hints and General Instructions

### 1/24 Scale Building -Virginia Ridge Fire and Rescue- CMS3005

#### PLEASE READ ALL DIRECTIONS BEFORE BEGINNING ASSEMBLY

Tools and Supplies Required are a razor knife, file, scissors, tweezers, 18" square, masking or edging tape and a glue suitable for hi-impact styrene and lexan sheet. Flat back clippers, sand paper, and other model building tools are helpful. Verify that all pieces shown on the parts description are included in the quantities shown in parentheses. The parts description sheet should be referenced for the following directions.

As with any project involving the use of sharp objects, hand and power tools, and adhesives, it is recommended that extreme care be exercised in assembling this kit. It is recommended that no one under the age of 12 be allowed to work with this kit and that all minors be supervised at all times. Because some of the trimmings from this kit can be very small, it is recommended that children less than 6 not be allowed in the working area.

If your project is to be painted take care not to get fingerprints, oily substances, or glues on the parts, as the paint will not stick as well or may cover differently. As some oils are inherent in the manufacturing process it is recommended that all parts be washed with a mild soapy solution and then rinsed several times. It is recommended that all basic painting be completed and allowed to dry before assembly is begun.

Before assembly begins, each piece should be carefully trimmed to remove any excess flash. Flash is the very thin plastic that extends in an irregular pattern from the edge of the piece. Flash should be removed from both the inside of the window and door openings and the outside edge of the roof and wall sections. If there is any question on what needs to be trimmed, fit adjoining walls or roofs together or fit windows into walls sections. Anything interfering with that fit or detracts from the appearance of the part should be trimmed. There is interference where the cornices on the adjoining wall section meet. These areas are circled on the parts description sheet. Do NOT trim this overlap until all parts are fitted as the overlap on the front and back walls covers the overlap on the side walls. Be especially careful trimming the matching 45 degree corners of the side walls, end caps, and roof sections. Pay particular attention to trimming the gate area (the small piece of plastic coming out of the wall and roof sections) so that the part is trimmed or filed flush but none of the detail is taken off of the outside surface of the part. As the roof section rest on the top of the upper floor window flanges make sure all flash and gate areas are trimmed flush.

After the flash is removed, it will be necessary to make several minor adjustments to the some of the kit components to assure a better fit upon assembly. Make all adjustments very slight at first then increase them if necessary. Use a file (preferable) or hold a knife perpendicular to the surface to be trimmed and move the knife in a scrapping motion. Make sure all components fit together easily before cementing. The items shown on the parts description sheet inside of a single circle need particular attention for fit. The extension of the cornices on the side walls needs to be filed back in small increments until the extension of the cornices on the front and back walls cover the side wall cornices with no gap while fitting snugly against the 45 degree angle of the adjoining piece. Carefully trim each side wall cornice in the four places circled to assure tight fit. Additional areas that will need extra attention will be the opening in the roof for the chimney and some of the small windows over the doors. Carefully file these openings while testing the fit of the component part. (Assemble the chimney walls as indicated below before sizing the chimney opening) The parts description sheet can be referenced for component inclusion and location.

Basic painting may be done at this time. See our online guide at [www.coloradomodel.com](http://www.coloradomodel.com) for helpful hints. Windows and doors may be painted after trimming and before assembly if a contrasting color is used. Touch up can be done after assembly.

Location and order of assembly of all doors and windows is indicated on the drawings on the parts description sheet. Windows and doors can be cemented in place either before or after wall assembly. As many of the windows are similar in size, care should be taken to be sure that the correct window is in the correct location before cementing. File the openings of any windows as indicated above to assure proper final fit. Be careful to trim only what is necessary for fit. Flat back clippers are best for this type of trimming.

Assemble the chimney sections first. Two "A" pieces and two "B" pieces are required for each complete chimney stack. There is an "A" or "B" on the back of each piece and they should be assembled in the order shown on the drawing. Fit as above after the cement dries and cement into place. Cement only two sides of the building at a time matching the cornices as indicated above and allow to dry as the weight of the pieces can pull the building out of square. Use the 18" square to ensure square corners. After all wall sections are joined and the cement is thoroughly set, you will need to very carefully file the cornices on the front and back pieces to match the side wall. See photo below for suggested finish. Glazing material is included for all windows and doors. This can be cut to fit and cemented in place as desired. The roof sections are designed to rest on the top of the window flanges. Support strips are included to be applied wherever additional support is required. Finish as above and your building is complete. Add your own touches for a building that is uniquely yours.

