

Conceptual Design (above): Small loco shed for petrol/diesel locos, freelance but based on Fijian line car shed.

The entry and roof have been raised to accommodate small petrol/diesel locos but otherwise the kit is based fairly closely on dimensions estimated from photos of this shed (right).

The kit's design assumes the model will be built with the door(s) open, thus the emphasis on the interior view and framing.

Warning: This is a craftsman style card kit requiring thought and adaptation from the modeller. While care has been taken to ensure accurate components it is an unrevised first build and may still contain some construction challenges.

The kit has also been designed to serve as construction plans for more conventional model materials (timber, styrene, etc.).



Line car shed, Sabeto (Fiji), 2012, John Peterson photographer. This shed provided the inspiration for the small loco shed kit.

Full details of the loco shed design and development will be available in Narrow Gauge Downunder magazine from January 2023.

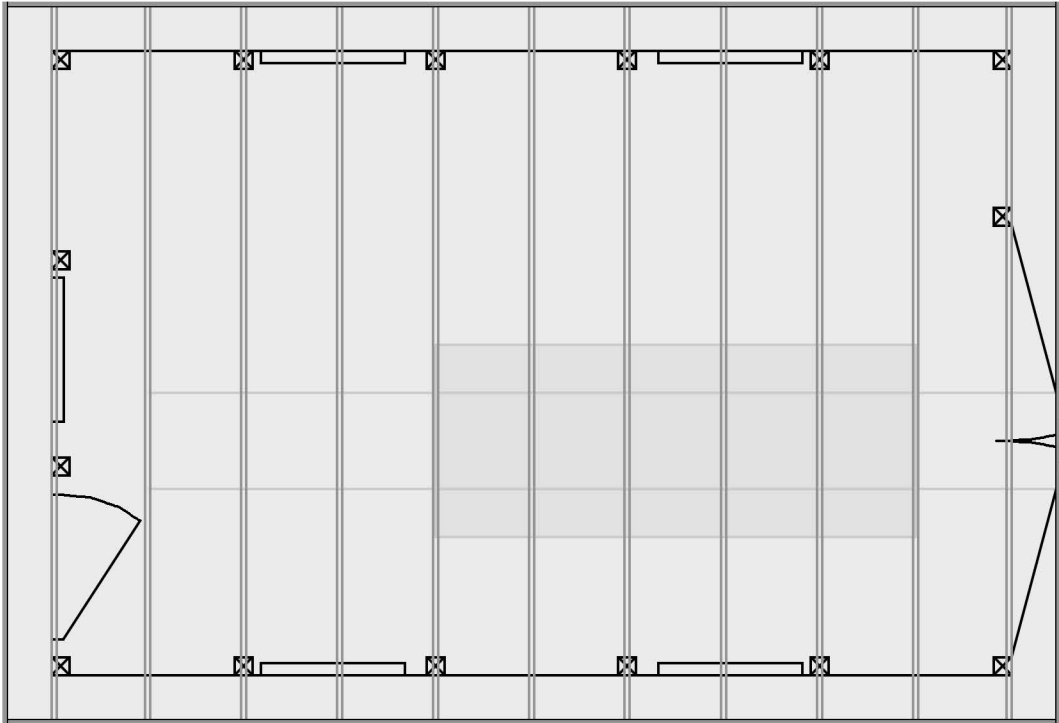


Line car shed (left) digitally restructured with board and baton sheathing and timber door.

Sm. Loco Shed: O Scale 1:48

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Plot Plan (below): load bearing posts (~4ft centres), door and window locations shown, light gray shaded area is roof coverage with rafter/ceiling joist locations (2ft centres). Dark shaded area is inspection pit sized for 2ft gauge, needs to be wider for larger gauge (eg On30).



The dark shaded area above is an inspection pit location. It's sized for the 2' gauge rails as shown and would need to be resized (widened) for other track gauges. However there is quite adequate room for an On30 or On3 inspection pit.

This kit is the first stage in creating a freelance single stall loco shed generic enough that it can be adapted (reskinned or roof modified, perhaps gable) with minimal effort for other locales or climate conditions. It can be built as a photorealistic card model or used as construction drawings for a styrene or timber model.

The shed has enough room for a small workshop or materials storage area highlighted by the interior framing.

Conventional styrene or timber models achieve a 3D effect through the use of dimension strips, etc., assembled in a prototypical manner. Card models achieve a visually similar effect through layering of timber framing, etc. You may need to print multiple copies of some pages to get enough layering materials.

The kit is 1:48 but you can scale the pages during printing for other modelling scale. You will need to provide some details, such as door and window hardware, that have not been included in the kit.

During construction as a card model you'll need to plan ahead to add or remove glue tabs, detail framing, etc., required to properly complete the model.

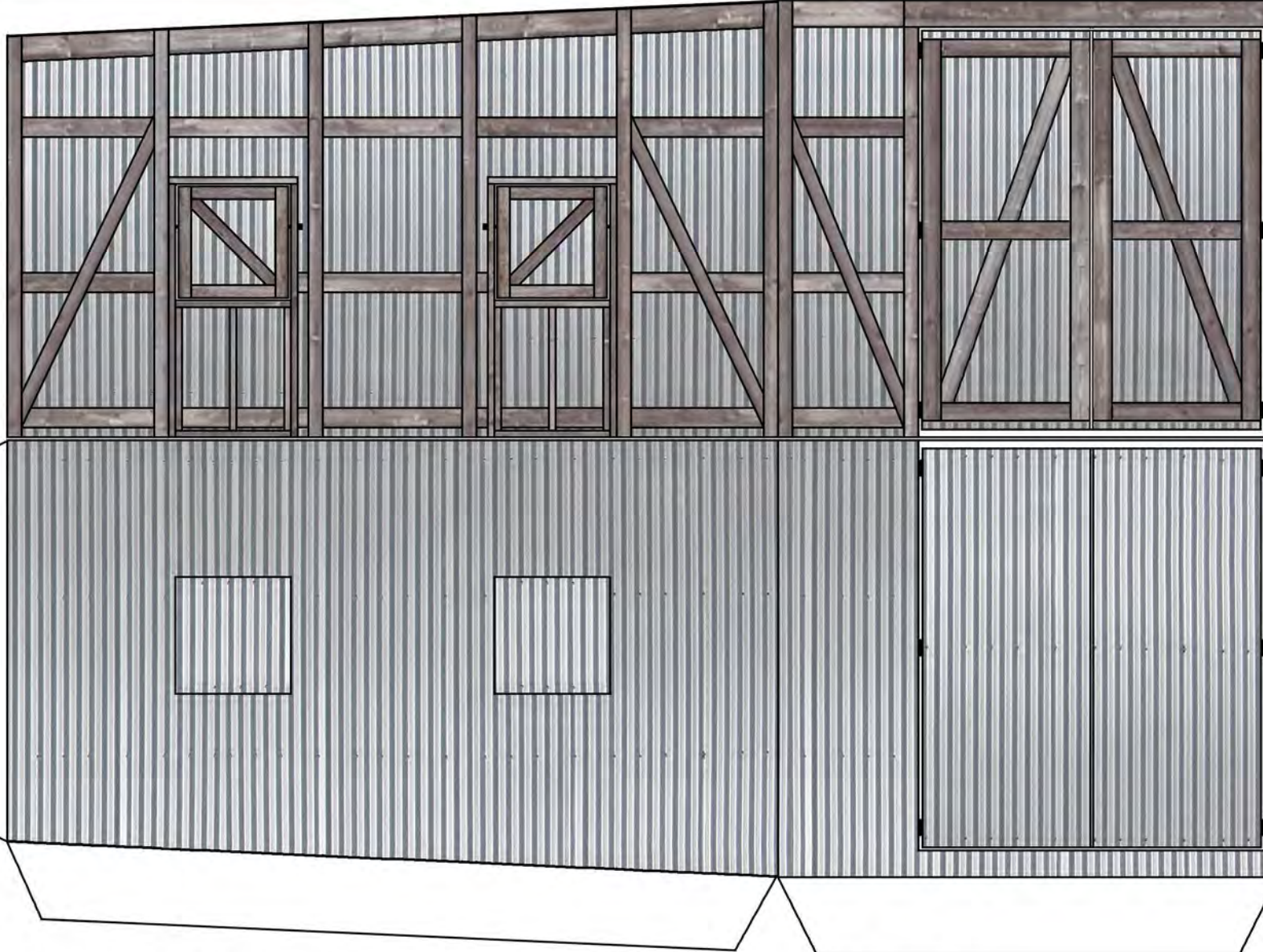
In other words, the kit should have all the basic materials for constructing the shed but everything else is up to you.

Happy Modelling!

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The glue flaps are indicative only; add, move or delete as needed. A suggestion is to glue the end flaps between the adjacent wall layers.

Note that 3D layering must be completed before fitting the four walls together.

More complete door and window components are on another sheet.

Nails marks are included along girt lines, however they are not included for the girt along the eaves or diagonal bracing. Hopefully their loss won't be noticed under the roof overhang but you can add them with a pencil or gray pigment marker. Seal with a fixative or spray lacquer.

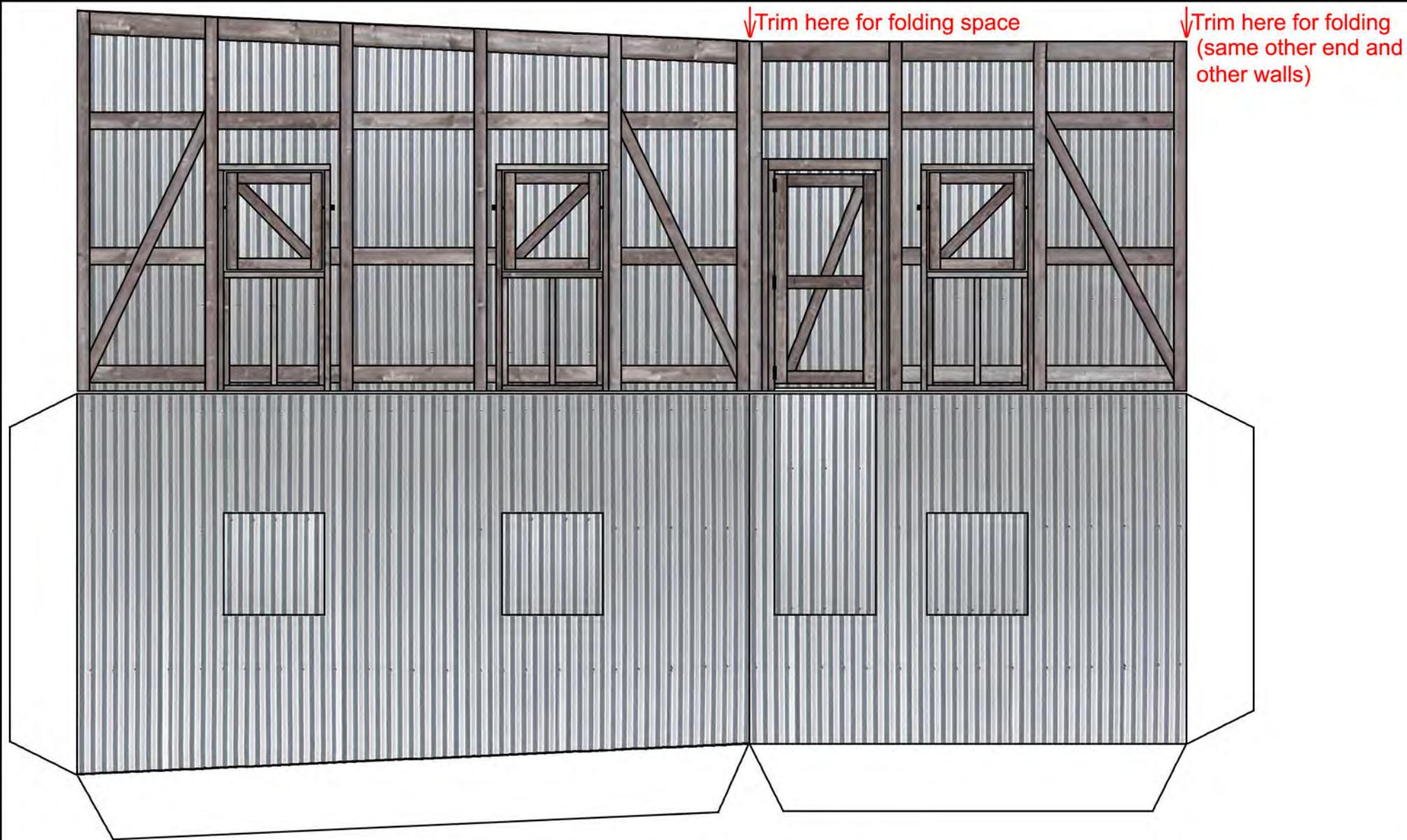
Doors and windows should line up after folding but cut out prior to folding or from the inside if removing to see interior.

See sheet 4 for notes on interior corners.

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0 1 2 3 4 5 6 7 8 9 10 11 12

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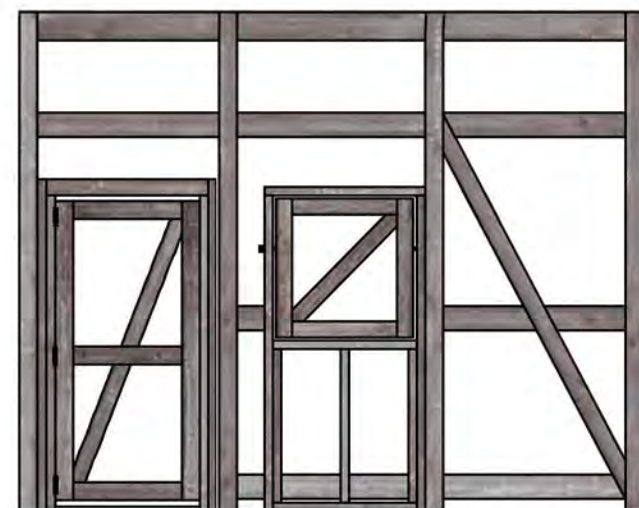
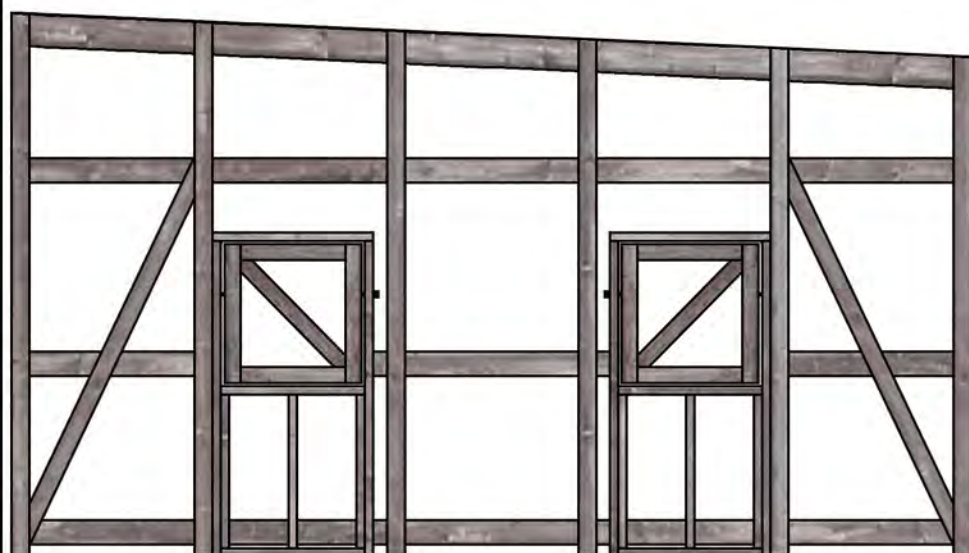
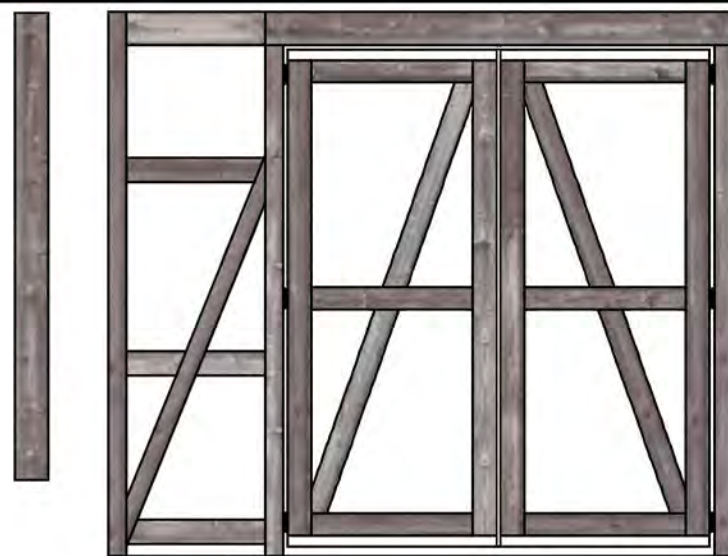
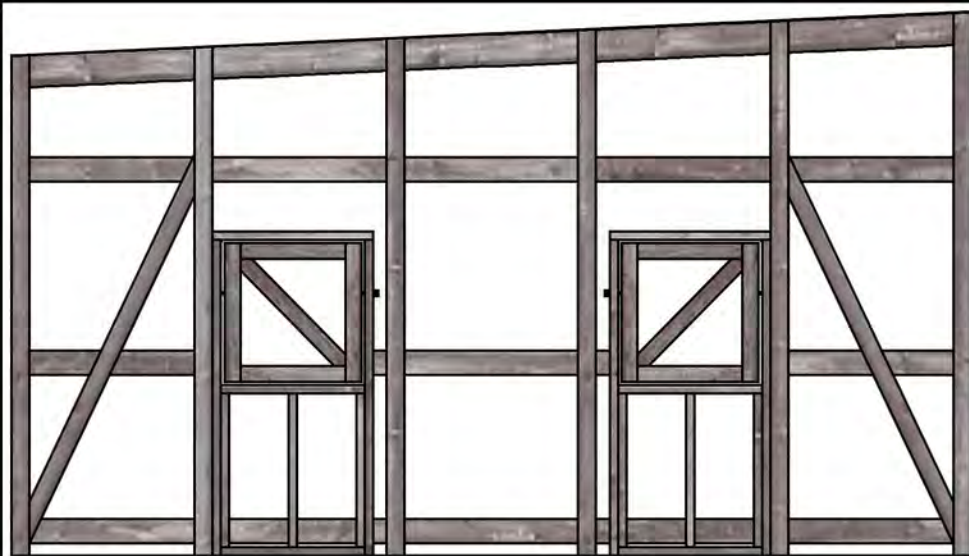


Interior corners are always a problem with card models, particularly when adding details through layering. Plan ahead and trim components so the corners fit when folded. For example, cut a narrow slot between the two interior corner posts above and trim a narrow slice off each end post to leave folding space. Another suggestion is to add a final 'post' with a layer that's been folded in half lengthwise and pressed vertically into the corner.

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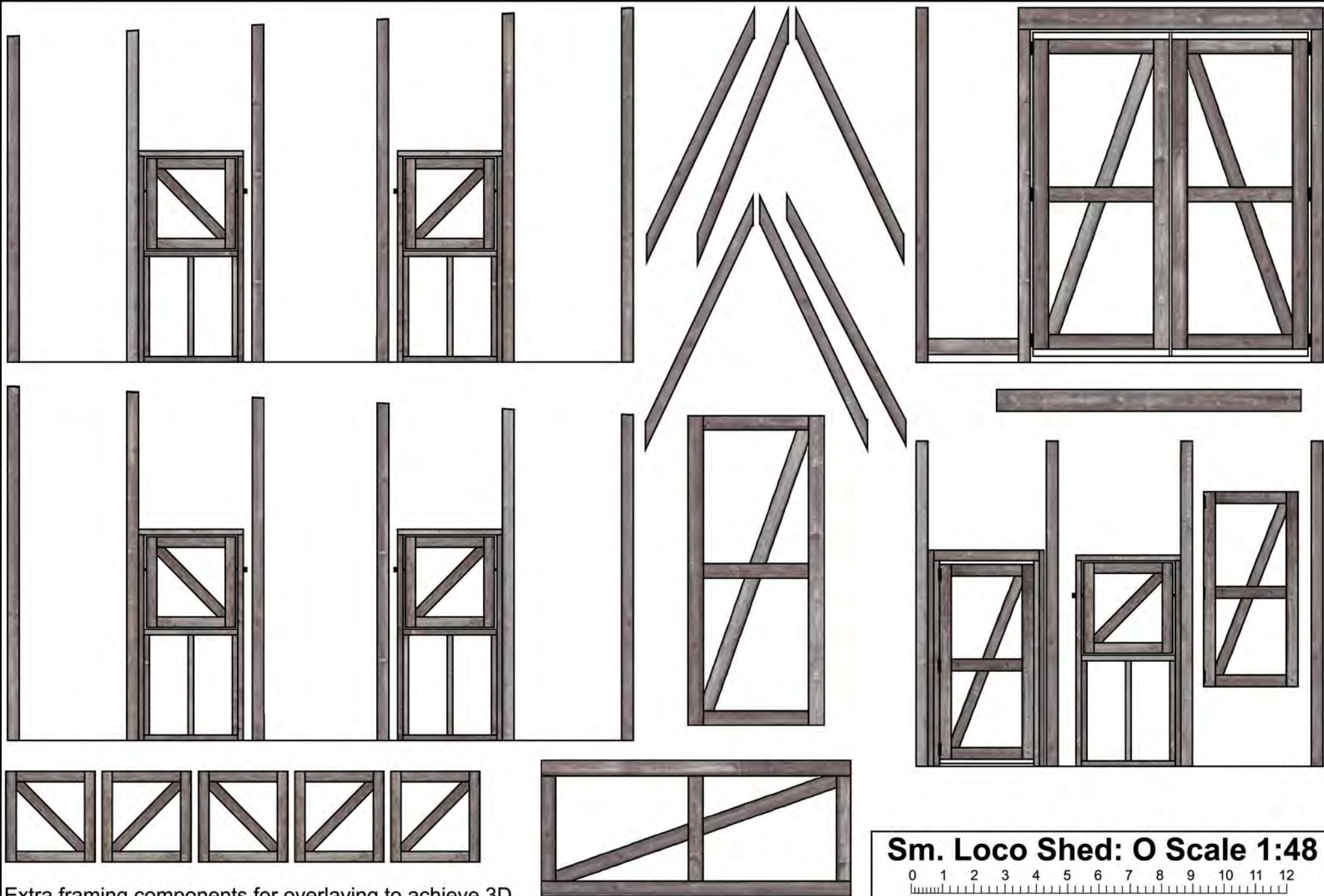


Extra framing components for overlaying to achieve 3D effect. Cut and chop as required.

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Sm. Loco Shed: O Scale 1:48

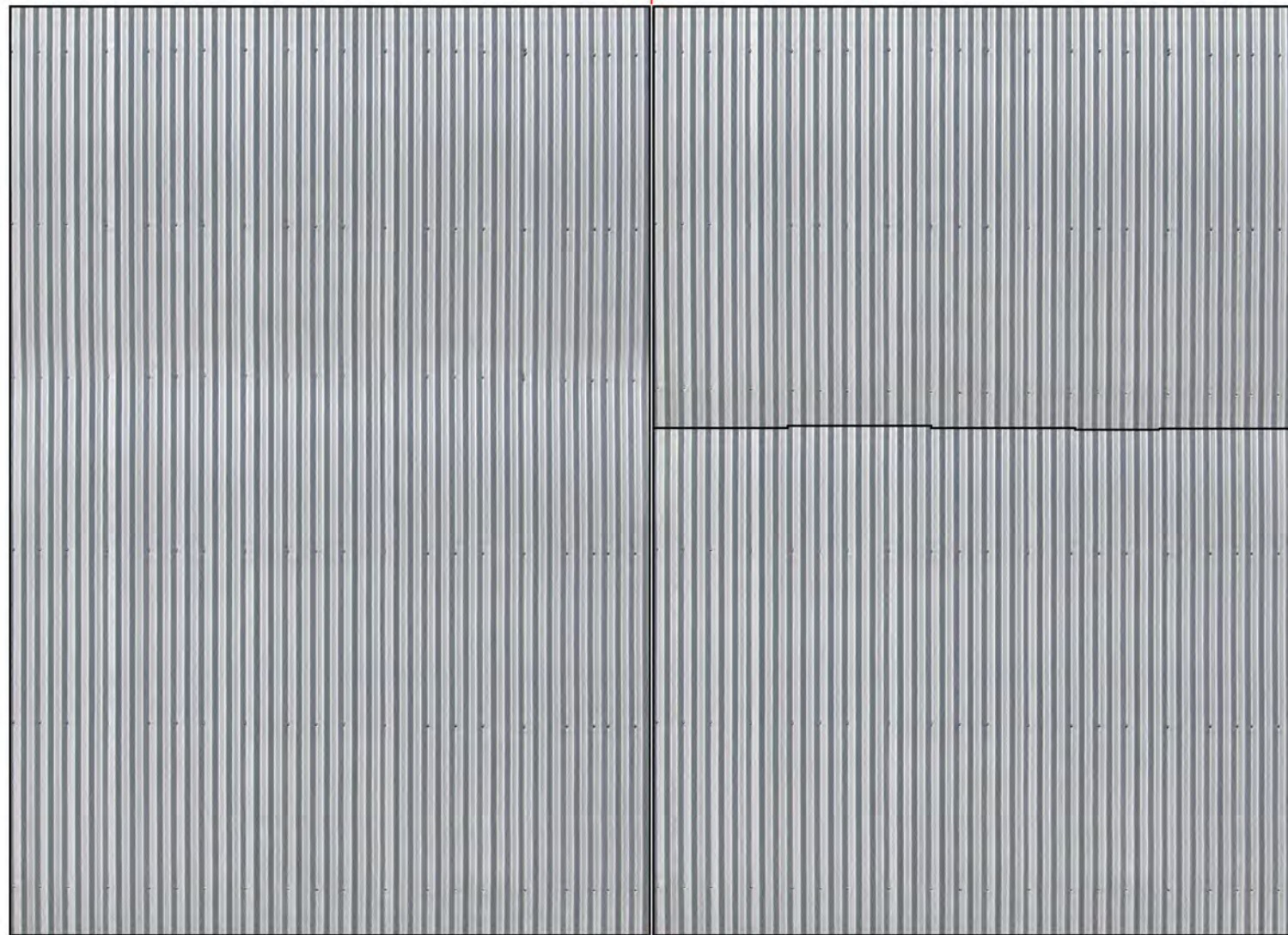
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Small Loco Shed Roof: This page contains images for roof top and underside. The top side CI displays two lengths, fold and glue the two full roof sections together before applying the top 3D component. The resulting CI roof mounts directly on the rafter/ceiling joists.

The side fascia boards should probably attach to the ends of the rafters before fitting the roof. The front/back fascia boards attach to the ends of the side fascia boards and the roof itself.

CI overlay (below) for 3D layering on roof (right).



The CI roofing should overhang the 8x1" fascia/header boards by 3 scale inches. The floor plan shows rafters/ceiling joists on 2' centres but this is overbuilt for CI so use 4' spacing to match the 4' centre nail/screw marks.

Underside of roof (left) - rafter/ceiling joists will hide lack of layering on underside when viewed through door(s).

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Eight inch boards for rafters/ceiling joists and fascia/header boards

The boards are longer than required for use so must be trimmed to length.

Care must be taken when folding to create double-sided boards to ensure both sides align.

Assuming card was square in printer when printing the card edge can be used to help align.

Very lightly score the fold line to ensure a defined edge. Do NOT cut through.

<< Score/fold here to glue, then slice length-wise to form double-sided boards.

Trim at least six to length for rafter/ceiling joists.

Note they extend beyond the walls to support roof overhang.

Trim two to length for side fascia/header boards to fit to ends of rafters with 3" CI roof overhang.

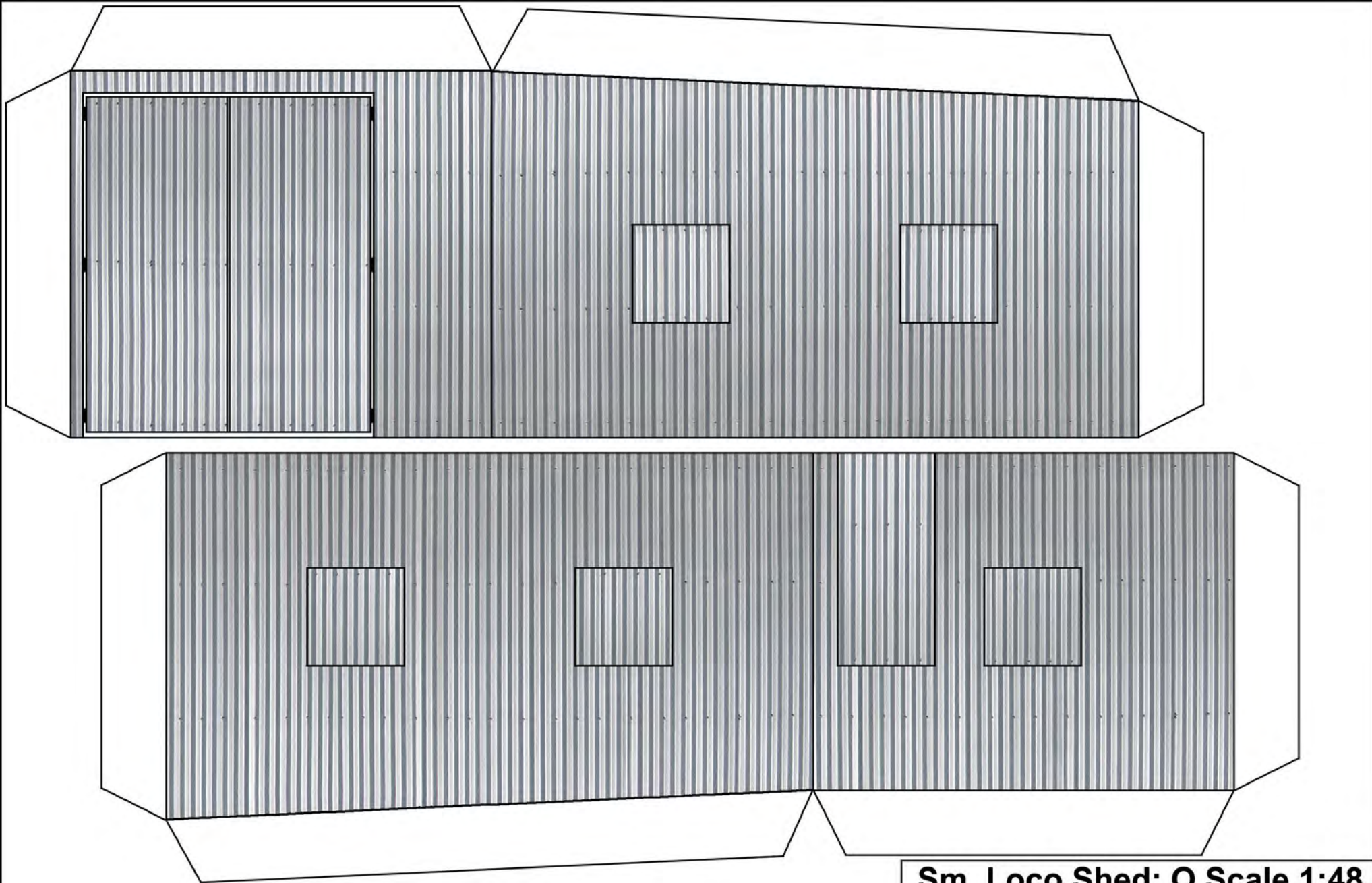
Trim two to length to fit for back/front fascia/header boards with 3" CI roof overhang.

It may make sense to assemble the rafters and fascia boards on the under side of the roof, then fit the roof assembly to the open topped wall module.

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Print this page if building shed without interior detail. Discard extra glue flaps. Walls will need extra bracing to avoid warping. Alternatively construct balsa box and use walls as wrapper.

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