

# SL-and-N construction blog

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01-19-2024, 05:13 PM #1096

Very nice Dave. Your very handy with that saw.

Jerry

"And in the end, it's not the years in your life that count. It's the life in your years." A. Lincoln

01-19-2024, 05:49 PM #1097

A couple of times at train shows, I've talked to laser kit designers about doing a 'Mansard Roof kit'. Mike Baker (Nick & Nora), Doug Foscale (FOS Scale) and Art Fahey/Jim Mooney (Bar Mills) have done Mansard roofs on kits, but they didn't think there'd be a market for just the roof.

dave

*Last edited by deemery; 01-19-2024, 05:58 PM.*

Modeling 1890s (because the voices in my head told me to)

2 comments

**jvbv** commented 01-19-2024, 09:51 PM #1097.1


One could write a program that takes the desired dimensions and prints out cutting templates, or cut lines on stock, or even drives a Cricut or the like. But the geometry would be hairy.

**deemery** commented 01-20-2024, 06:33 AM #1097.2

You need a bunch of parts all cut to the same shape. Lasers and Cricuts are good at that. Me, not so much :-). Plus you need an assembly approach (slot and tab or wide gluing surface) to connect the subroof to the formers. Mike Baker and I had an interesting discussion on that during a slow period at one of the Timonium shows.

01-19-2024, 07:58 PM #1098

On-location:



I spend a lot of time thinking about how the buildings, particularly the heights of structures, fit together. This looks good (and it actually looks better from the other side.)

dave

Modeling 1890s (because the voices in my head told me to)

01-19-2024, 08:36 PM #1099

It looks like you've sorted out the geometry, Dave. Looks good.

George

Before each flight, make sure that your bladder is empty and your fuel tanks are full.

01-20-2024, 08:06 AM #1100

I look forward to seeing the finished roof.

Curt Webb

Freelanced PRR Bellevue Sub

01-20-2024, 09:04 AM #1101

Looks like a good size and shape, Dave.

I'll be interested in seeing it with the dormers. I did stumble across a photo of a nonresidential building with small square windows like you are using. I guess I just like the Victorian style.

I also came across a photo of a mansard roof with no windows. The architect missed the point, especially given that they are more expensive to build and not good in heavily rainy or snowy climates.

Mike

I was so much older then, I'm younger than that now *Bob Dylan*

01-20-2024, 06:52 PM #1102

Well... I putzed with a dormer. I'll need at least 8, more like 10 of them. They're very fussy. So I've decided to try building a master and then casting them. Now I have a fair amount of design work to figure out how to do the casting, as well as making the master. But I ordered a Smooth-On sample kit, which has both mold and resin components.

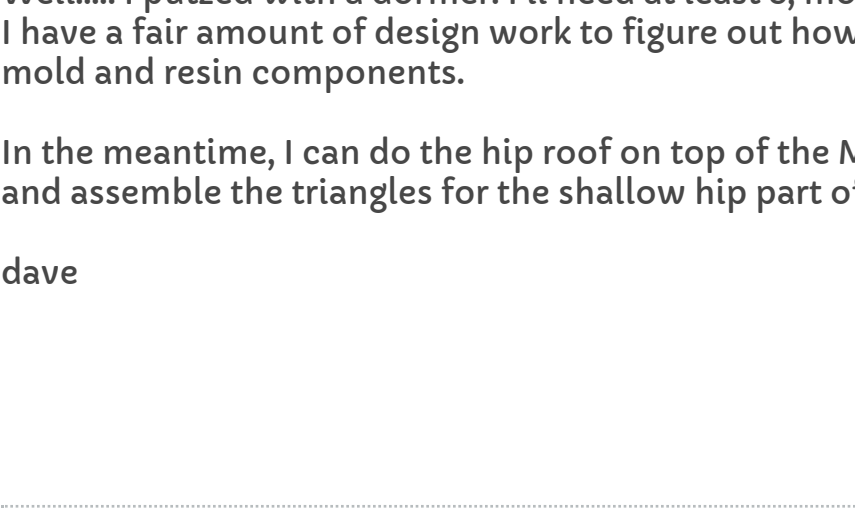
In the meantime, I can do the hip roof on top of the Mansard. I glued the styrene base for that on top of the sloped wood pieces. Now I need to figure out, cut and assemble the triangles for the shallow hip part of that roof.

dave

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01-21-2024, 03:35 PM #1103

Hip Roof done, I need to add thin strips for the seams in a metal roof.




dave

Modeling 1890s (because the voices in my head told me to)

01-21-2024, 09:52 PM #1104

Mike, a prototype factory/warehouse with Mansard roof and relatively small dormers. Not as small as mine, though. Clipped from a Shorpy photo of Rochester NY



dave

Modeling 1890s (because the voices in my head told me to)

01-21-2024, 07:16 PM #1105

Dave,

The proportions of the mansard roof and the hip roof look very prototypical.

I don't think it's unusual for the dormer windows in a mansard to be smaller than the lower floors. However, like the ones in the photo, they usually have a height/width ratio of 2:1 or more.

Mike

I was so much older then, I'm younger than that now *Bob Dylan*

2 comments

**deemery** commented 01-21-2024, 07:34 PM #1105.1

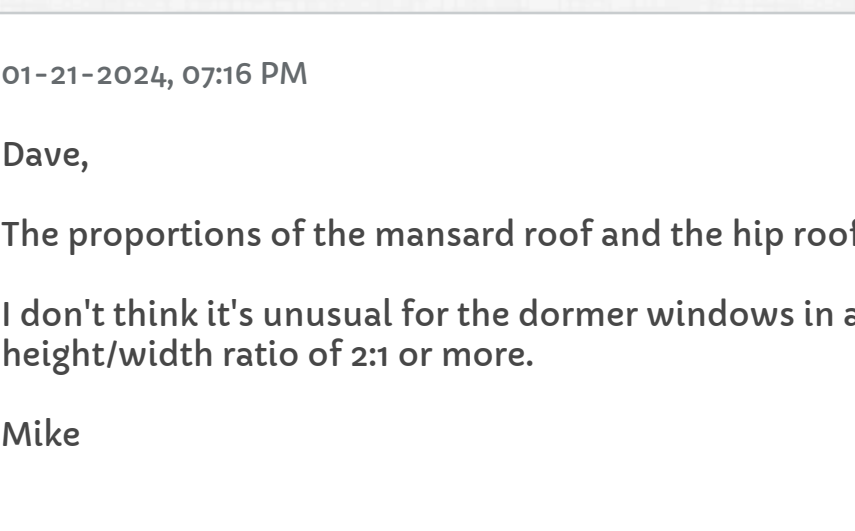
I'll try the mock-up dormer I did, and see how that looks. The factory building is a bit strange. The left side has single windows evenly distributed with dormers directly on top. The right side has single and double windows, not aligned with the dormers. And there's a fireblock between the two sides. The Mansard color on the left side is different than the right side. That tells me the 2 sides were probably built at different times. But the coloring of the brick is close/identical. It probably wasn't painted (although that's a possibility), so instead the same brand/source of brick was used for both parts. If they went to the trouble of matching the wall brick, then why not match the roof, too?

**jvbv** commented 01-22-2024, 02:25 PM #1105.2

The RH side of the building has a mansard pitch, so probably designed for more useful floor area. Larger, evenly distributed windows probably lit the interior better. Double-sash center windows on the lower floors probably also because the first part's interior light wasn't satisfactory. Brick matching could have been just sticking with the same brickworks. Nearest was likely cheapest.

01-22-2024, 04:05 PM #1106

Seam roof done:



dave

Modeling 1890s (because the voices in my head told me to)

01-22-2024, 05:19 PM #1107

Dave your progress looks great. In an area that gets snow and sometimes a lot ( I imagine), I don't understand an almost flat roof for bearing the weight of snow. ( I'm talking the historical photo not your model).

*Last edited by PRR Modeler; 01-22-2024, 05:21 PM.*

Curt Webb

Freelanced PRR Bellevue Sub

1 comment

**deemery** commented 01-22-2024, 06:03 PM #1107.1

Yeah, roof loading on city buildings with flat/nearly flat roofs is something I've thought about, too. There'd have to be some serious roof trusses/members to hold the load on a flat roof.

01-22-2024, 05:36 PM #1108

Making good progress Dave.

Follow along as my dog and I travel the country in our van. Facebook link: <https://www.facebook.com/A-Dog-A-Van-and-A-View-108345371976229> YouTube: <https://www.youtube.com/@RickS727>

01-22-2024, 06:01 PM #1109

Dave, your building is looking really Good. You're really doing a good job on it. On the prototype building in he photo you shared. I see three builds, the first being the building to the right of th fire break, then the building to the left, then the original building got a new story and roof.

On your Dormer, why not 3D print them. It would be a great first project?

Bob

It's only make-believe

1 comment

**deemery** commented 01-22-2024, 06:03 PM #1109.1

Well, the learning curve for any 3D design tool is high, and given my totally frustrating experience with SketchUp, that's not an experience that I want to repeat. And then I'd have to find someone to print it.

01-23-2024, 12:21 PM #1110

Dave, Blender is support to be a lot easier to learn and resin printers are around \$200. now.

Bob

It's only make-believe

Rich text editor toolbar with options for font, size, bold, italic, link, unlink, list, indent, outdent, undo, redo, fullscreen, print, and other standard editing tools.