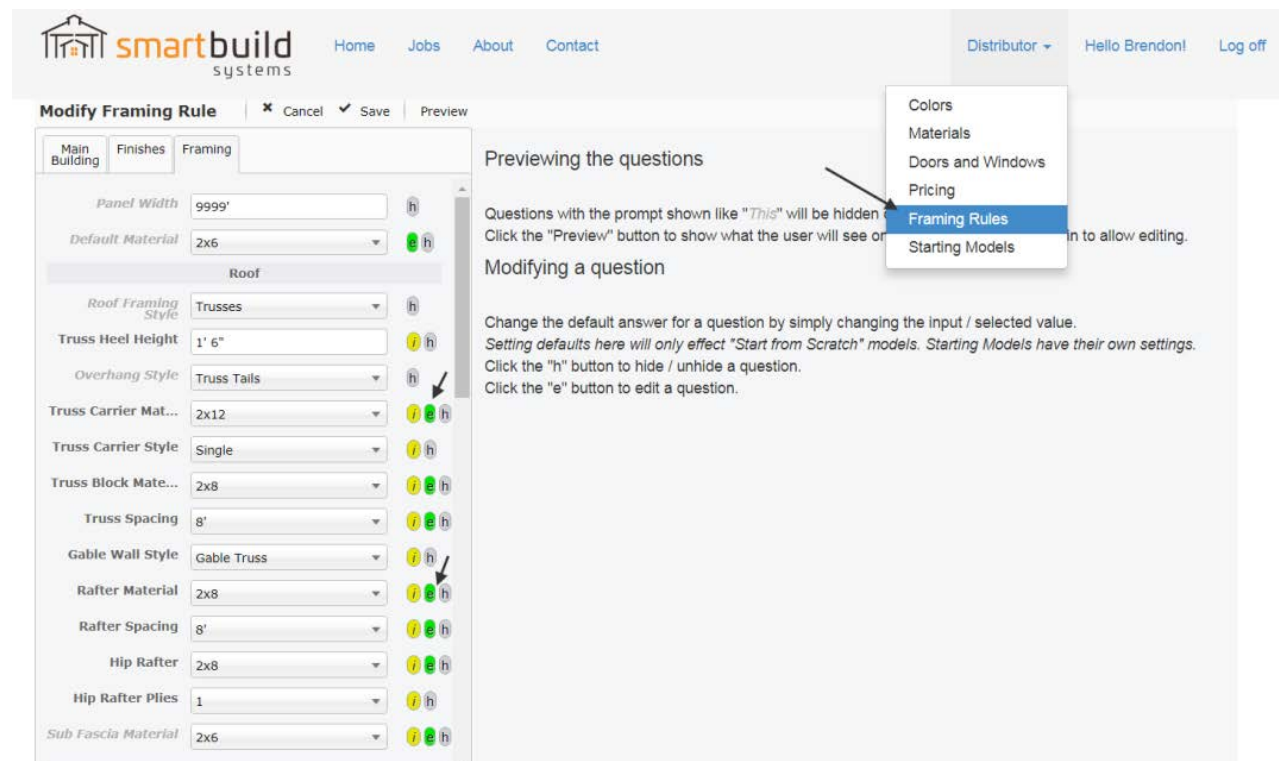


## Step 3: Define Framing Rules

### Adding products to the material usages on the Framing Rules page

Once all the materials are loaded on the Materials Page the next step is to open the Framing Rules page. The Framing Rules page is where the list of default materials is setup. Use the Framing Rules page to select all the answers to the questions listed on the main form that controls the 3D model on the right side of the screen. Framing Rules page has control buttons for each question. The green E button next to each question is used for editing the materials for that question. The gray H button will hide that question when you're in a 3D model. If the setting is something you never change, choose an answer and Hide the question, that way the answer cannot be changed when in the 3d model (you can always un-hide questions on the Framing Rules page if you want them to show up again).



**Modify Framing Rule** [Cancel] [Save] [Preview]

Main Building | Finishes | Framing

Panel Width: 9999' [h]

Default Material: 2x6 [h]

**Roof**

Roof Framing Style: Trusses [h]

Truss Heel Height: 1' 6" [h]

Overhang Style: Truss Tails [h]

Truss Carrier Mat...: 2x12 [h] [e]

Truss Carrier Style: Single [h]

Truss Block Mate...: 2x8 [h] [e]

Truss Spacing: 8' [h] [e]

Gable Wall Style: Gable Truss [h]

Rafter Material: 2x8 [h] [e]

Rafter Spacing: 8' [h] [e]

Hip Rafter: 2x8 [h] [e]

Hip Rafter Plies: 1 [h]

Sub Fascia Material: 2x6 [h] [e]

**Previewing the questions**

Questions with the prompt shown like "This" will be hidden. Click the "Preview" button to show what the user will see or click the "h" button to allow editing.

**Modifying a question**

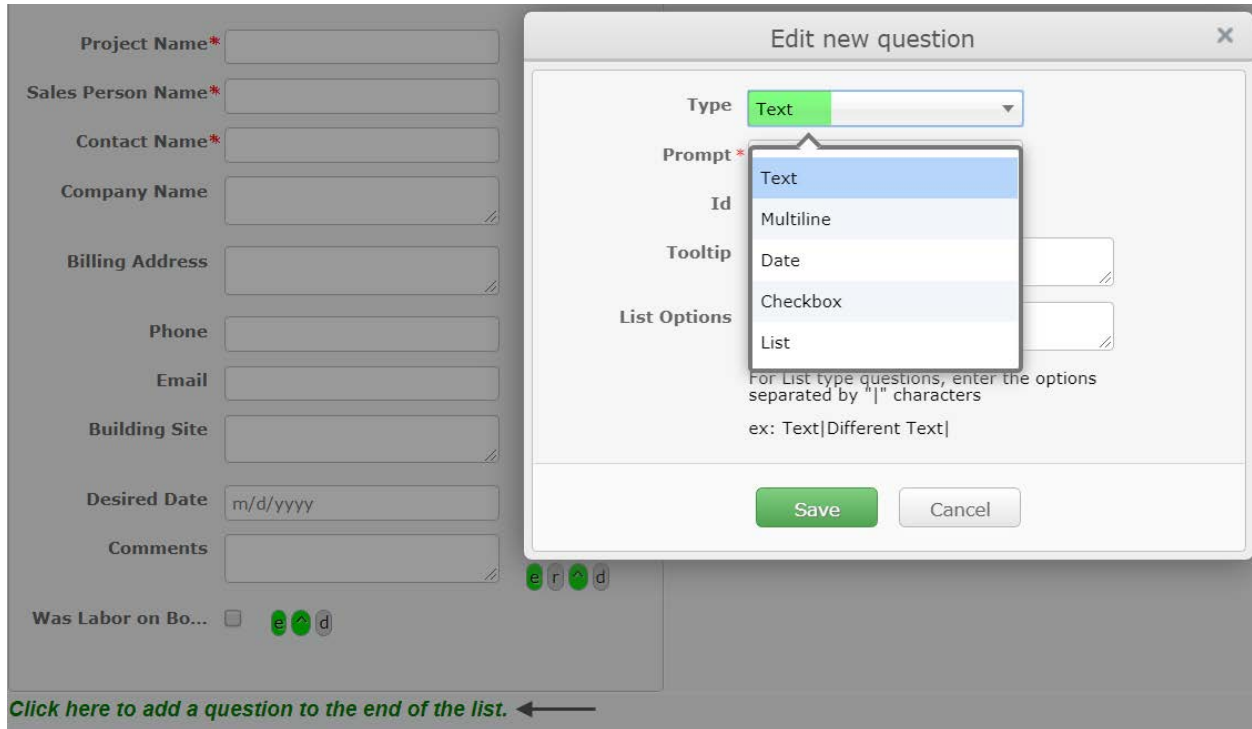
Change the default answer for a question by simply changing the input / selected value. Setting defaults here will only effect "Start from Scratch" models. Starting Models have their own settings. Click the "h" button to hide / unhide a question. Click the "e" button to edit a question.

Use the Framing Rules page to assign the default materials for things like framing, trim and sheathing parts. Just select the materials you want to use for each usage type and save the Framing Rules page. Then when you return to the Home page and select the Start from Scratch 3D model, all the default answers will be shown with the same answers that were saved in the Framing Rules. Note several different types of material options can be selected for each usage...

The first tab on the Framing Rules page is the Job tab. This tab is fully customizable, you can set it up with as many different job questions as you like. This is where the basic job information is gathered for each project. Use the fields to capture whatever job data that is important to you. The job info that gets

saved will show up on the cover pages on the outputs. Some Fields for important job information can be set to “required” by clicking on the gray R button next to that question.

Some of the different question fields you can use are: Text, Multi Line Text, Calendars, Check Boxes and Lists.



**Edit new question**

Type: **Text**

Prompt \*

Id

Tooltip

List Options

- Text
- Multiline
- Date
- Checkbox
- List

For List type questions, enter the options separated by "|" characters  
ex: Text|Different Text|

Save Cancel

Click here to add a question to the end of the list. ←

## Job Checks

Another feature on the front page of the Framing Rules page is the customizable job checks. These are limits that you can set in the Framing Rules that will show a message on the job, when a particular check gets triggered. The job checks are meant to be used along with the engineering and building standards for your region.

Here are some examples of the checks that you can set: max post spacing, truss heights and building widths. Let us know what other checks you would like to see...

**Modify Framing Rule for Buildings**
✕ Cancel ✓ Save Preview Help

Main Building
Finishes
Framing
Job

Project Name\*  ? e r d

Sales Person Name\*  e r d

Contact Name\*  e r d

Company Name  e r d

Billing Address  ? e r d

Phone  e r d

Email  ? e r d

Building Site  e r d

Desired Date  ? e r d

Comments  e r d

Was Labor on Bo...  e r d

**Framing Rule Checks**
New Framing Check
i

Formula  ... d

Message  e r d

Comment  e r d

Formula  ... d

Message  e r d

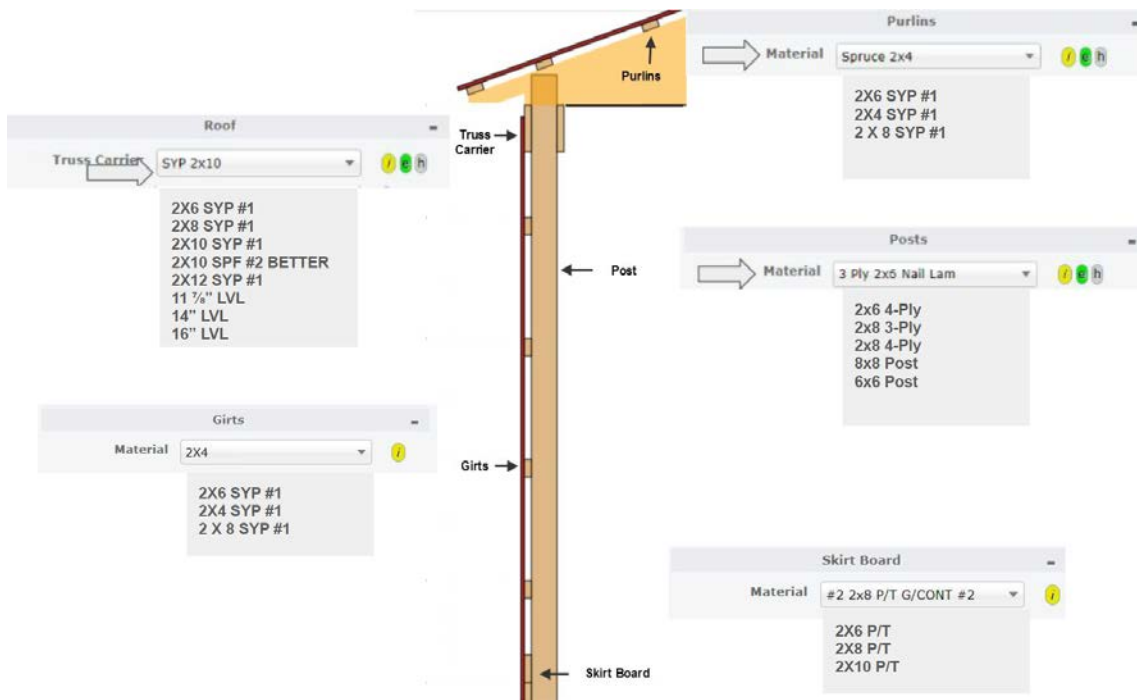
Comment  e r d

[Click here to add a question to the end of the list.](#) ←

## Framing tab questions

- The truss carrier material, also known as the “header” or the “top girt” is the part where the trusses are attached to a wall.
- Truss carrier styles include Single, Double and Triple truss carrier;
  - Single style is one truss carrier on the outside of the post.
  - The double gives a single truss carrier on the inside and outside of the post and allows for truss spacing and post spacing to vary.
  - The triple truss carrier style is two on the inside and a single truss carrier on the outside of the post.
- The truss block material is the vertical blocking on either side of the truss that attaches a truss to the truss carrier if there’s not a post underneath it.
- The truss spacing setting sets the center to center distance between the trusses this can be set from the front or back of every building.
- Rafters are used for the roof framing on porches and attached lean-tos. All roofs can also be framed with trusses instead of rafters.
  
- The hip rafter material is the rafter that’s running along the hip on a wraparound porch or lean-to.
- There are three options for the wall gable wall style...
  - Full height option has no trusses at the end of the building and the posts and girts run all the way up to the top of the roof.
  - Gable end is where there is a gable truss and the posts run all the way up to the roof line.
  - The gable short post option has the post stopping at the bottom of truss.
  
- Purlins style also have three types
  - The flat option lays flat on top of the truss.
  - The on edge will be in the strong axis on top of the trusses.
  - The flush options will cut around the purlins in between each truss and will mount flush with the top of the truss using hangers.
  
- Girts have two styles; standard and bookshelf that get cut in between the posts and laid flush with the inside and outside of the post
- The skirt-board material can be stacked and aligned with the building grade so that half the skirt-board is above grade and the other half is below grade.
  - You can also set the line of which the base trim will be set up in the bottom of the wall steel will sit.
- Roof ledger is the part where are the rafters for the attached building get tie into the wall of the main building.
- The open wall siding is used in conjunction with the open wall toggle on the building options tab. This controls how far down will the steel come on an open wall or if there is no steel on the wall.
- Use the Measure from option to determine where the offset will be measured from,
  - Bottom of Truss carrier
  - Or From Grade

Here are some example usages for the framing part questions:



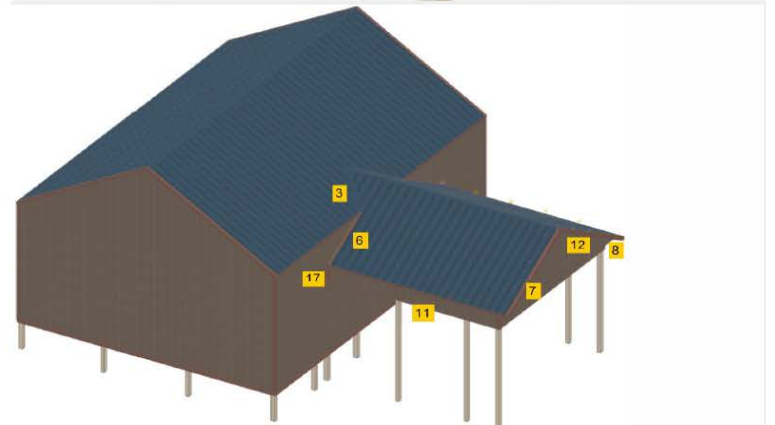
## Finishes tab questions

The Finishes tab questions cover all the exterior steel parts of the building.

- Check on wainscoting for the default building
- Set the default colors and materials you want to use for the walls and the roof metal
- The rest of the Finishes tab questions have to do with all the different trim parts on the building...

And here are some SmartBuild usages for the trim parts:

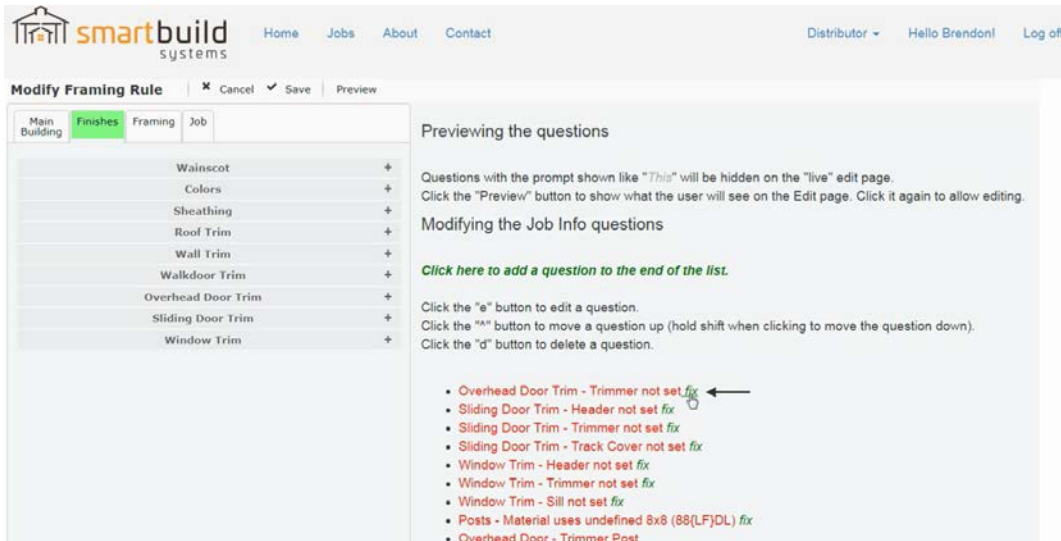
1	Ridge Cap	10	Base Trim
2	Hip Ridge Cap	11	Open Wall Base Trim
3	Valley Trim	12	Top of Wall Trim
4	Eave Edge Trim	13	Wainscot Trim
5	Gable Edge Trim	14	Door Header Trim
6	Roof To Wall Trim	15	Door Jamb Trim
7	Fascia Material	16	Window Sill Trim
8	Soffit Box Material	17	Inside Corner
9	Outside Corner		



Because the website is being continually updated there will be new settings and questions added.

## Fixing new materials on the Framing Rules page

When a default material is deleted from the Framing Rules, or a new material usage is added to SmartBuild a Fix message will pop up on the Framing Rules Page. To fix the message, click on the Fix button and then select the correct materials you want to use for the new answer.



**Modify Framing Rule** [Cancel] [Save] [Preview]

Main Building | **Finishes** | Framing | Job

Wainscot +  
Colors +  
Sheathing +  
Roof Trim +  
Wall Trim +  
Walkdoor Trim +  
Overhead Door Trim +  
Sliding Door Trim +  
Window Trim +

**Previewing the questions**

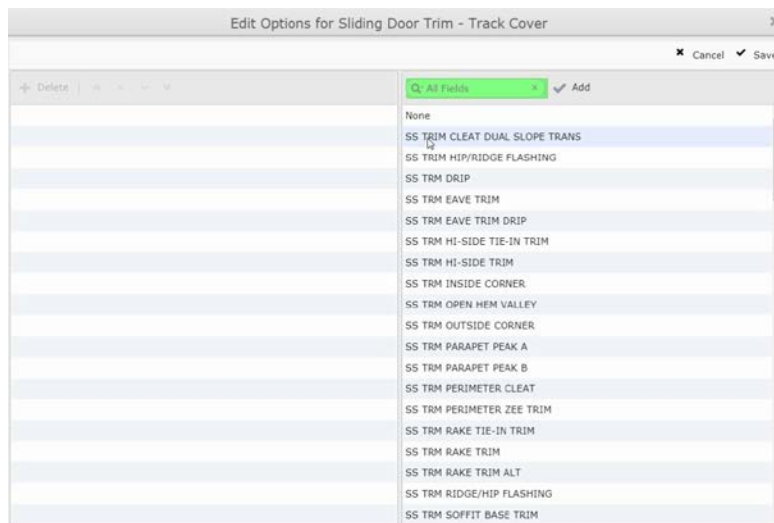
Questions with the prompt shown like "This" will be hidden on the "live" edit page. Click the "Preview" button to show what the user will see on the Edit page. Click it again to allow editing.

**Modifying the Job Info questions**

[Click here to add a question to the end of the list.](#)

Click the "e" button to edit a question.  
Click the "M" button to move a question up (hold shift when clicking to move the question down).  
Click the "d" button to delete a question.

- Overhead Door Trim - Trimmer not set **fix** ←
- Sliding Door Trim - Header not set **fix**
- Sliding Door Trim - Trimmer not set **fix**
- Sliding Door Trim - Track Cover not set **fix**
- Window Trim - Header not set **fix**
- Window Trim - Trimmer not set **fix**
- Window Trim - Sill not set **fix**
- Posts - Material uses undefined 8x8 (88(LF)DL) **fix**
- Overhead Door - Trimmer Post



Q: All Fields [x] [Add]

- None
- SS TRIM CLEAT DUAL SLOPE TRANS
- SS TRIM HIP/RIDGE FLASHING
- SS TRM DRIP
- SS TRM EAVE TRIM
- SS TRM EAVE TRIM DRIP
- SS TRM HI-SIDE TIE-IN TRIM
- SS TRM HI-SIDE TRIM
- SS TRM INSIDE CORNER
- SS TRM OPEN HEM VALLEY
- SS TRM OUTSIDE CORNER
- SS TRM PARAPET PEAK A
- SS TRM PARAPET PEAK B
- SS TRM PERIMETER CLEAT
- SS TRM PERIMETER ZEE TRIM
- SS TRM RAKE TIE-IN TRIM
- SS TRM RAKE TRIM
- SS TRM RAKE TRIM ALT
- SS TRM RIDGE/HIP FLASHING
- SS TRM SOFFIT BASE TRIM

Note: We post updates to the website every few weeks, some of these updates might change the functionality of the Framing Rules page. We'll post new training videos on our YouTube channel for any new features.

Let us know of any questions you might have or if you'd like to schedule an online training session to review the updates and cover some of the details Settings pages...