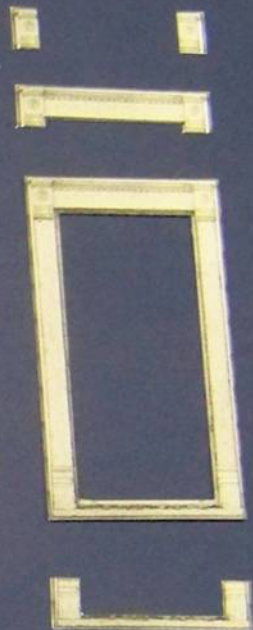
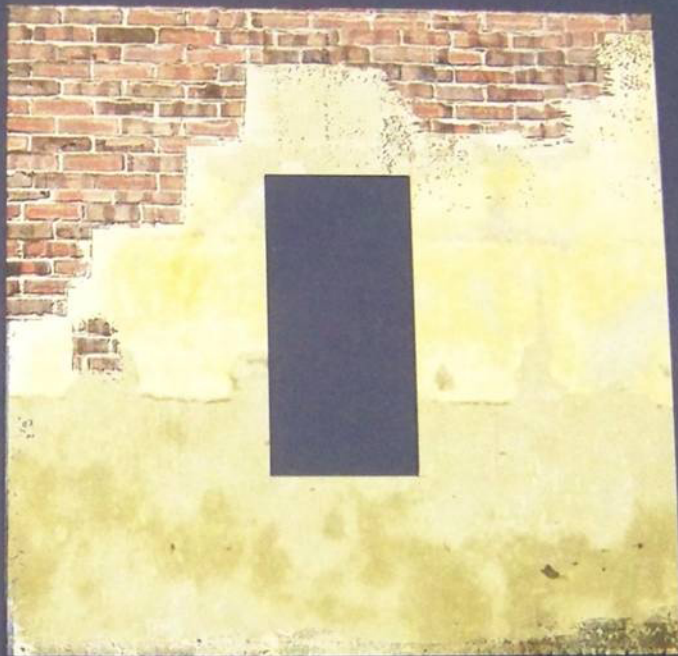


This is a straight on view of a layered window.

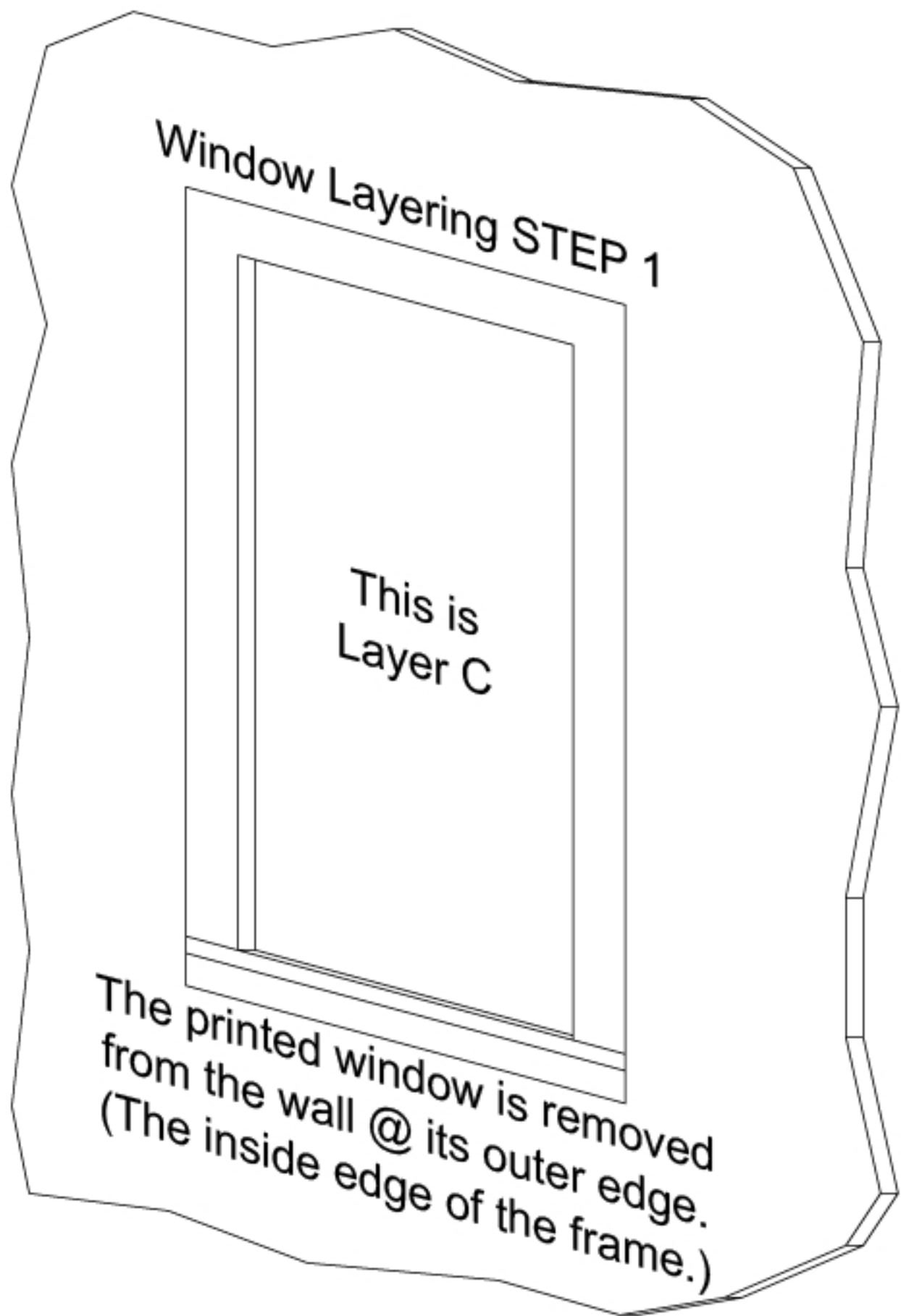


Not much to see till you see it from an angle.

These are the parts that  
make up a layered window.

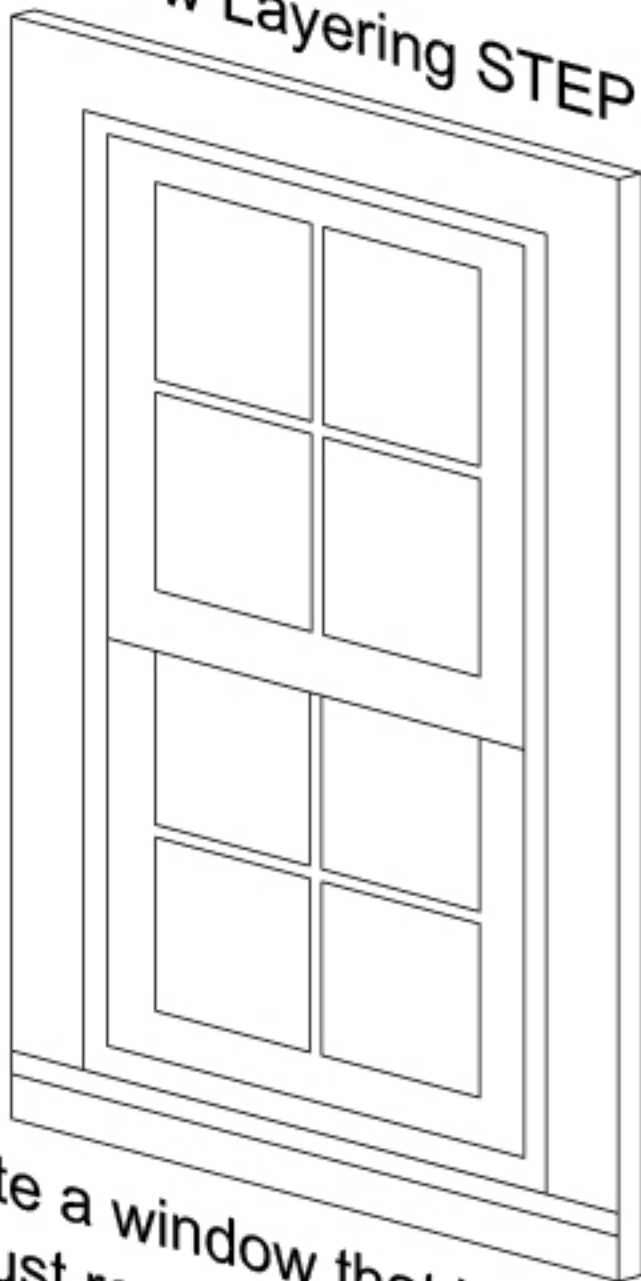


Clear glazing



You may want to keep the removed piece for possible future use.

## Window Layering STEP 2

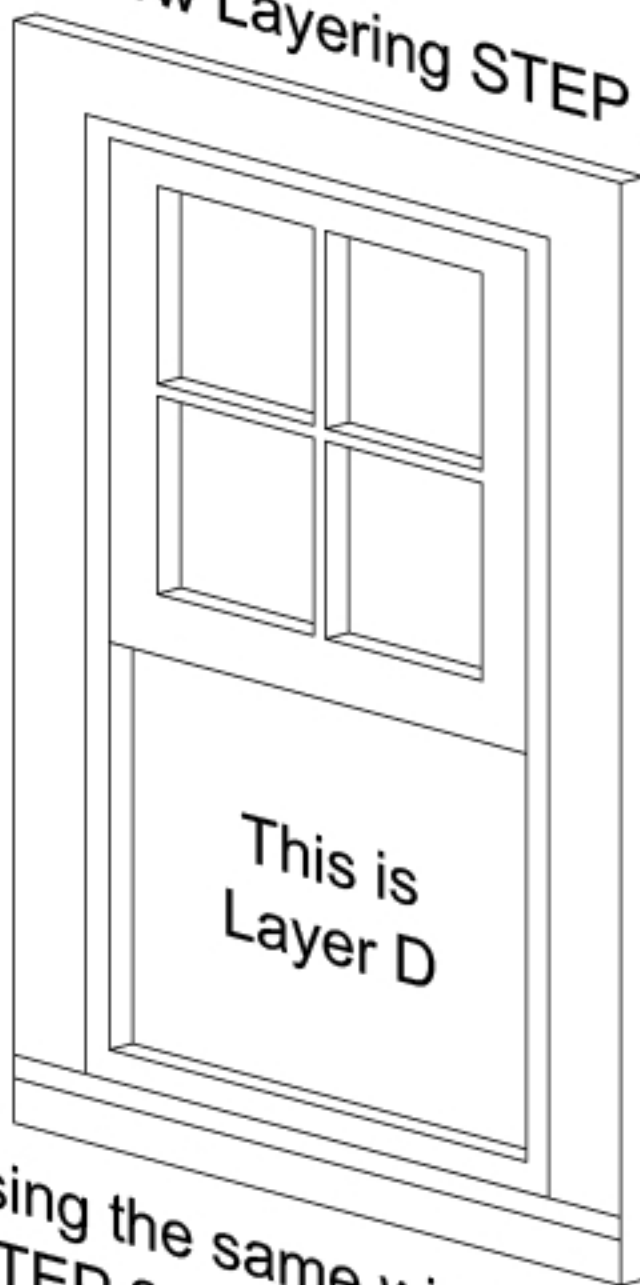
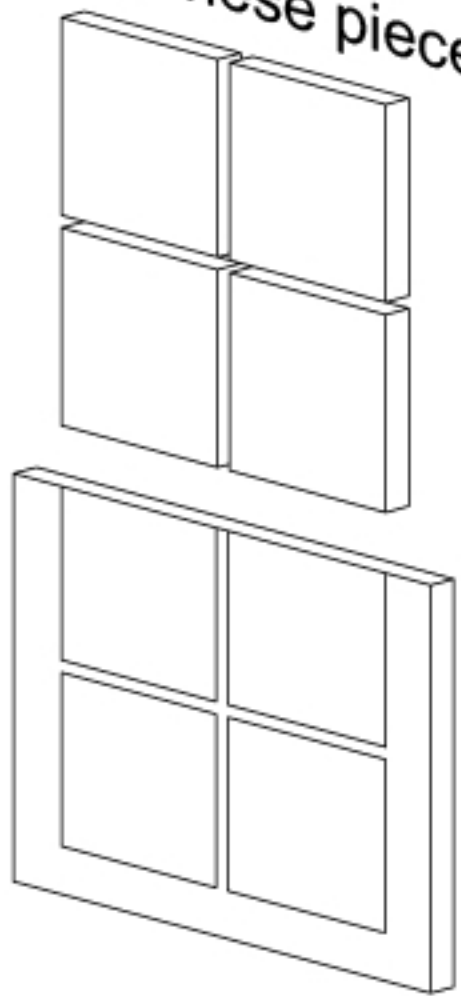


This is  
Layer D

Next, locate a window that looks the same as the one you just removed. (It should be nearby, on the same sheet.) Cut it out completely, around the outside edge of the frame.

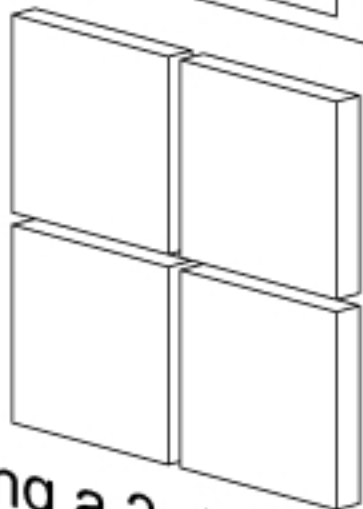
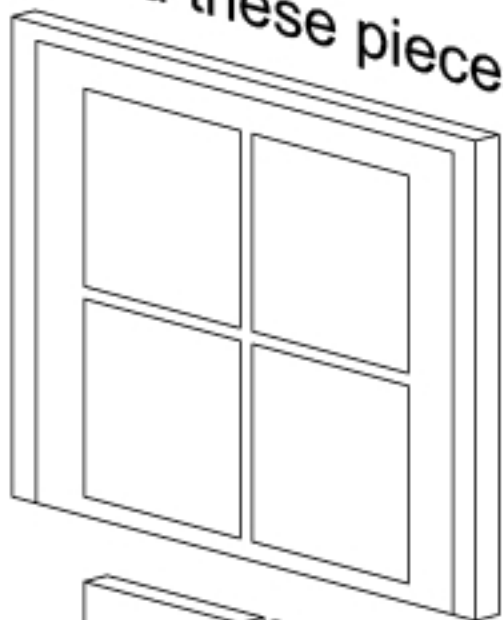
### Window Layering STEP 3

Discard these pieces.

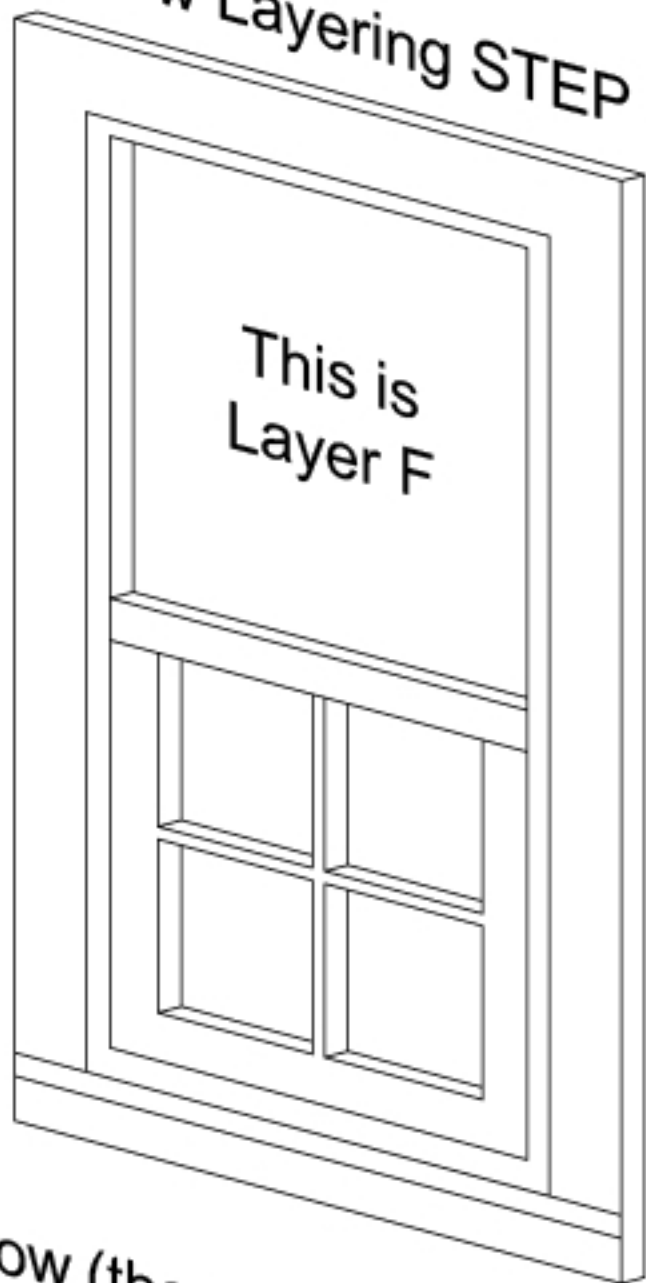


Using the same window from STEP 2, remove all 4 upper window panes and all of the lower sash.

Discard these pieces.



Window Layering STEP 4



Using a 3rd. printed window, (there are usually many copies of windows in each kit. If you need more, print additional sheets.) cut it out as you did in STEP 2, except this time remove the lower 4 window panes and the entire upper sash.

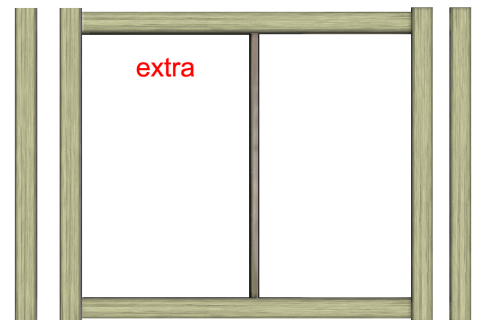
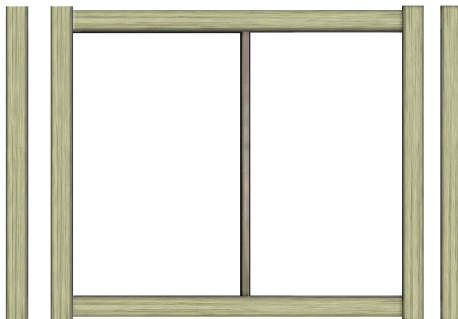
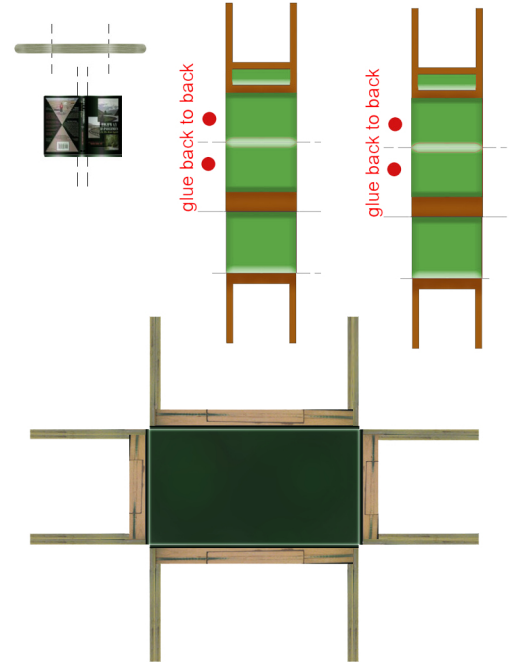
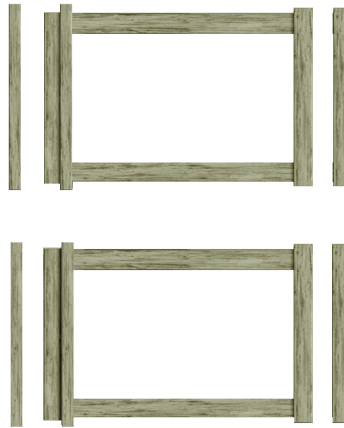
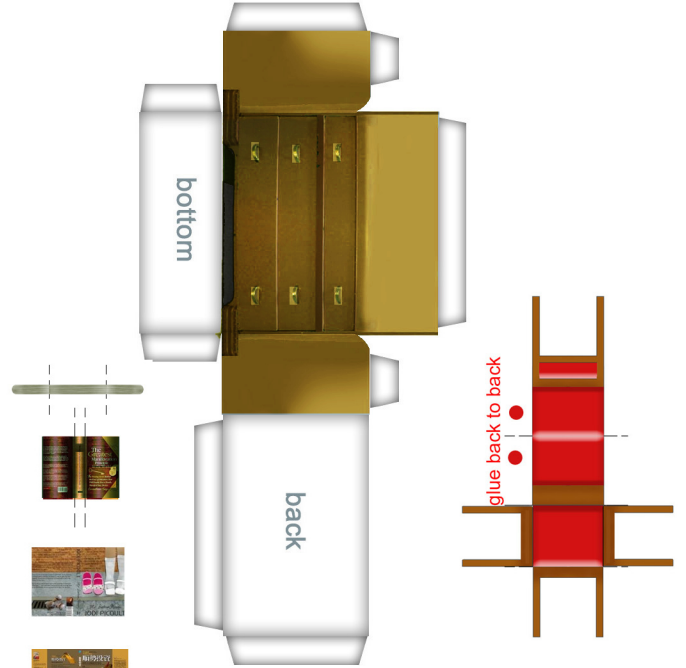
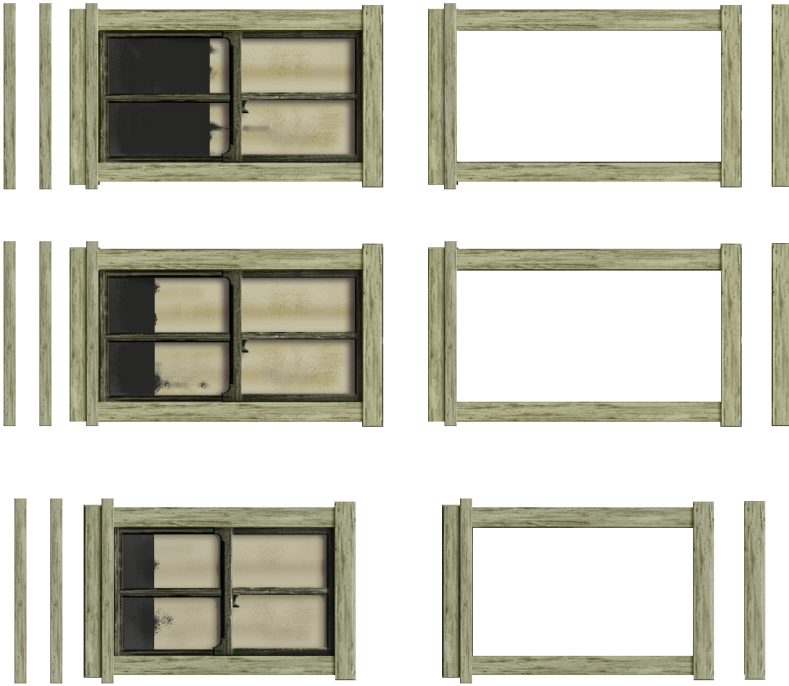
**HARD AND SOFT COAL**



This sheet shows what I mean when I say there extra windows available.

# O scale Kirk's books store Another example of extra windows.

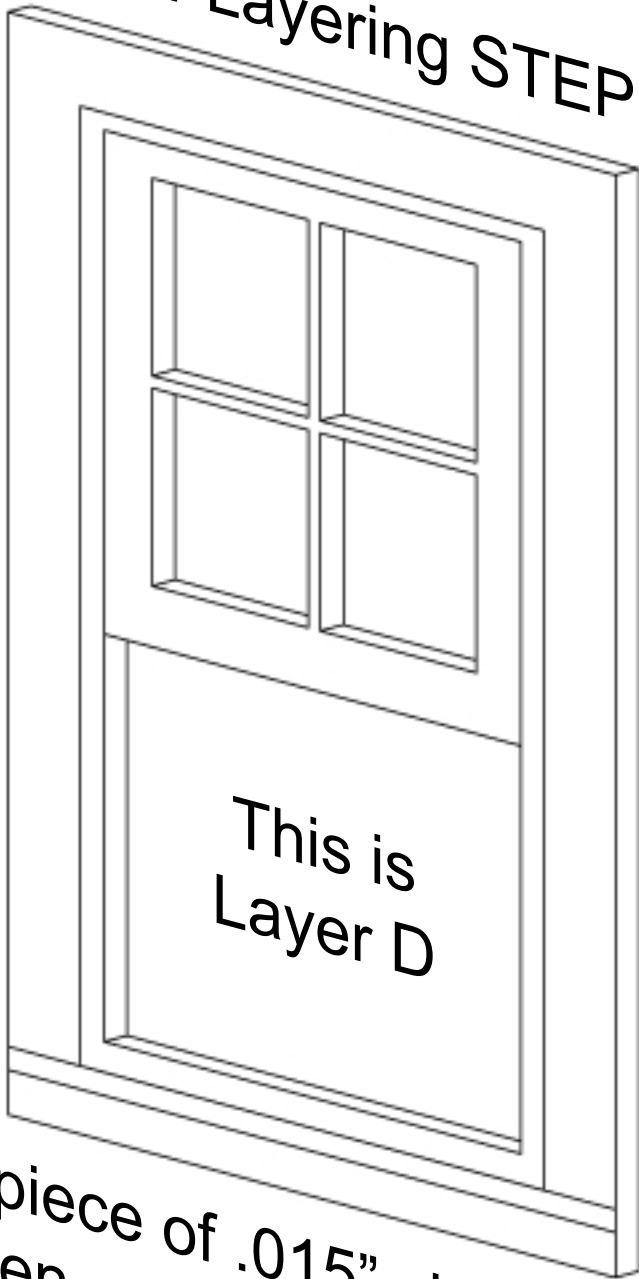
side and back wall window trim



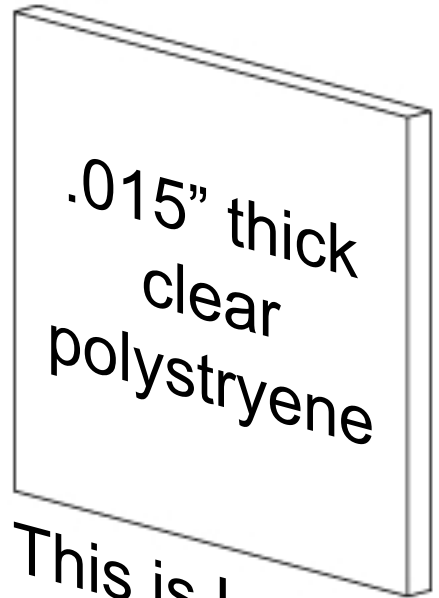
front wall trim



## Window Layering STEP 5



This is  
Layer D



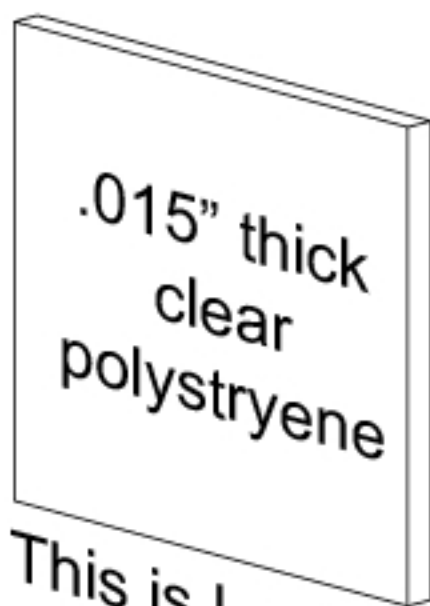
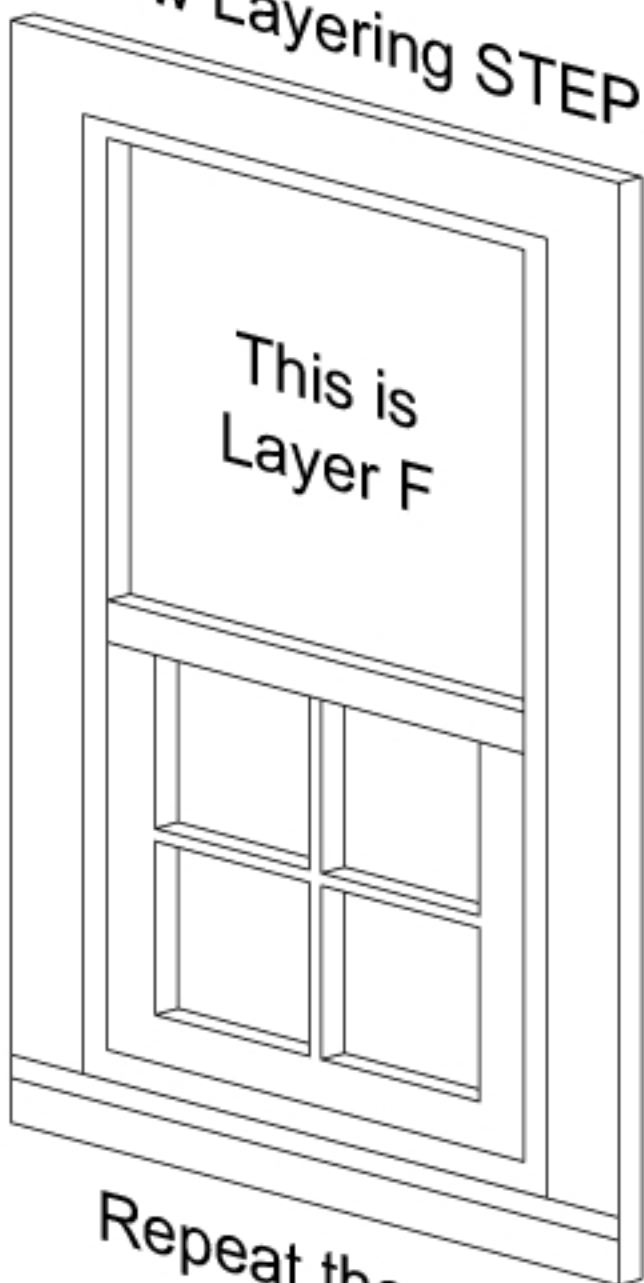
.015" thick  
clear  
polystyrene

This is Layer E

NOTE:  
PVA glue is  
commonly known  
as "canopy glue".

Cut a piece of .015" clear polystyrene a bit larger than the open area of the upper sash, but smaller than the opening that you made for it. (In Layer F) Glue it behind the upper sash, (In Layer D) centered on the opening with PVA glue.

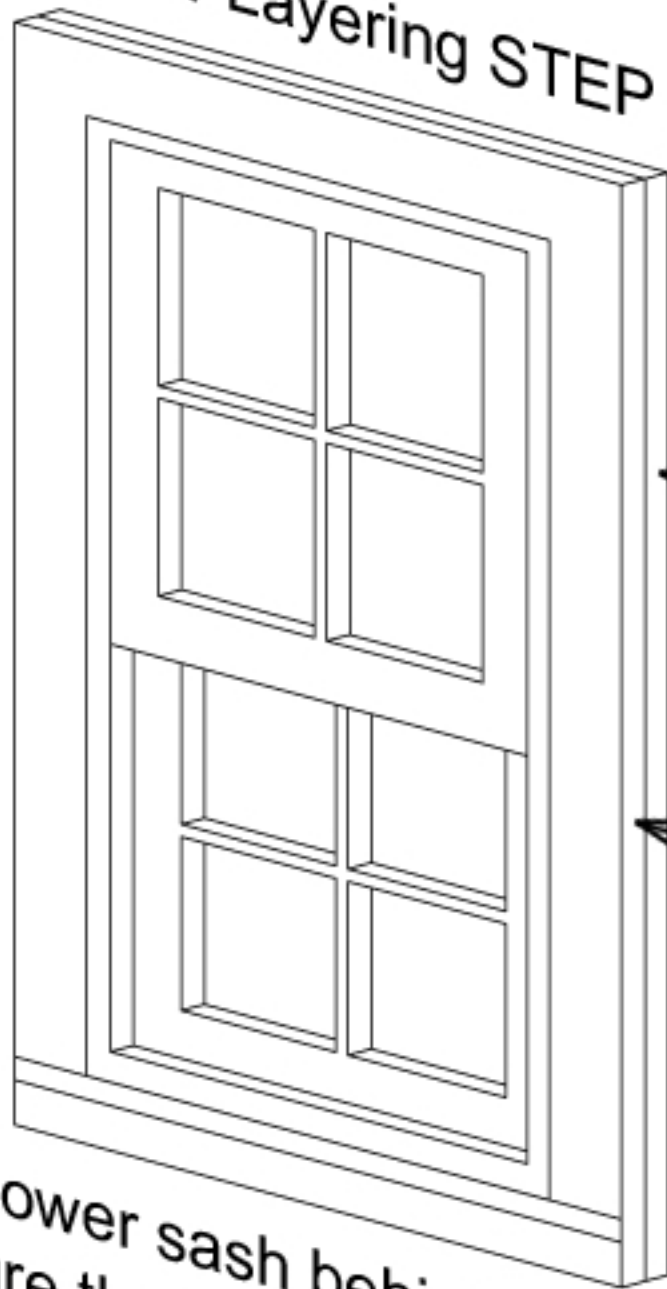
## Window Layering STEP 6



This is Layer G

Repeat the process from STEP 5,  
for the bottom sash.

## Window Layering STEP 7

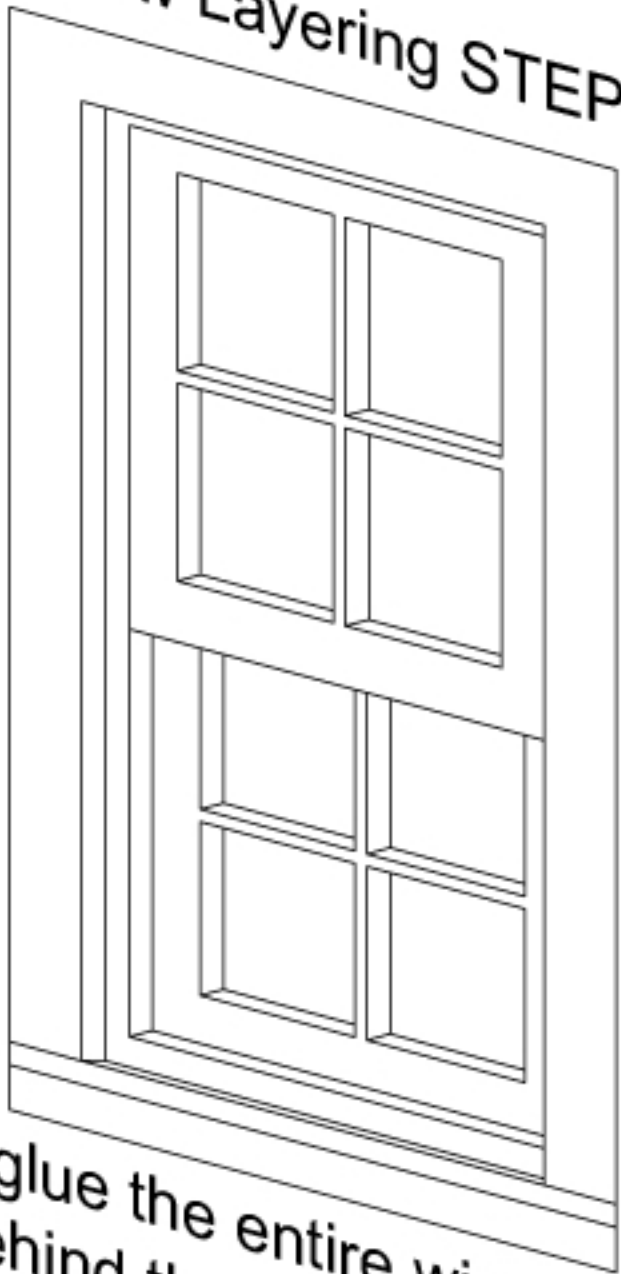


Layer F with  
clear layer  
G behind

Layer D with  
clear layer  
E behind

Glue the lower sash behind the upper sash,  
making sure that they are in good alignment.

## Window Layering STEP 8



Next, glue the entire window assembly behind the opening in the wall.

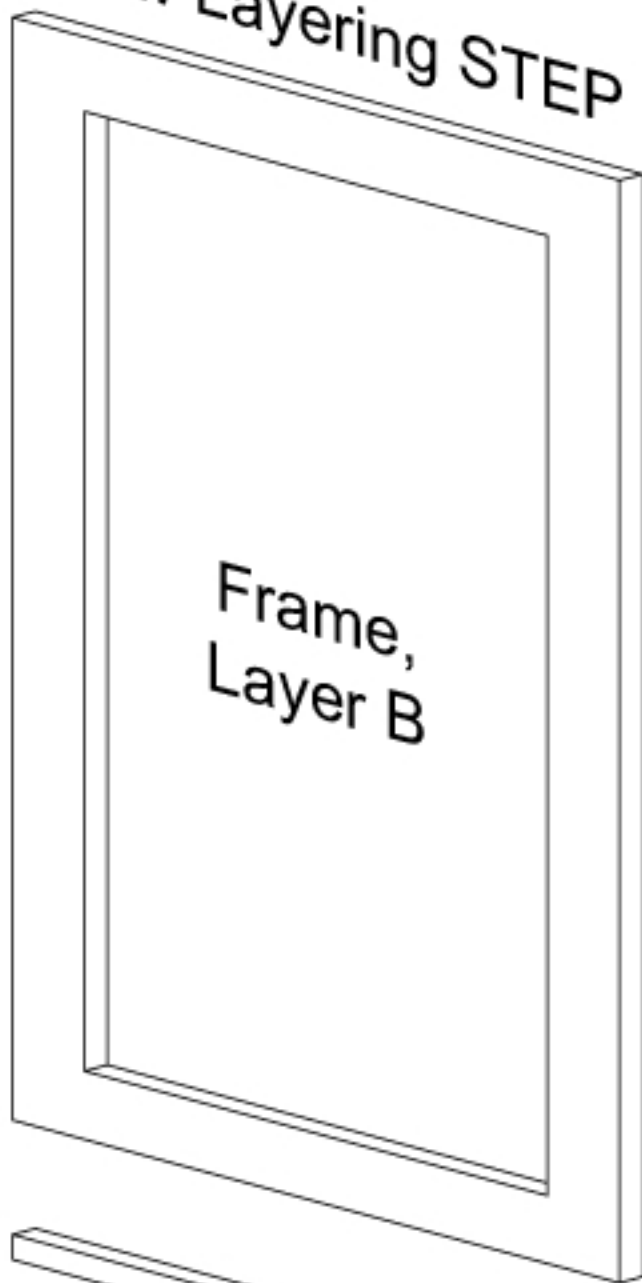
## Window Layering STEP 9

Frame, Layer B

Sill, Layer A

Next, find the window frame and sill, for the window that you are layering.

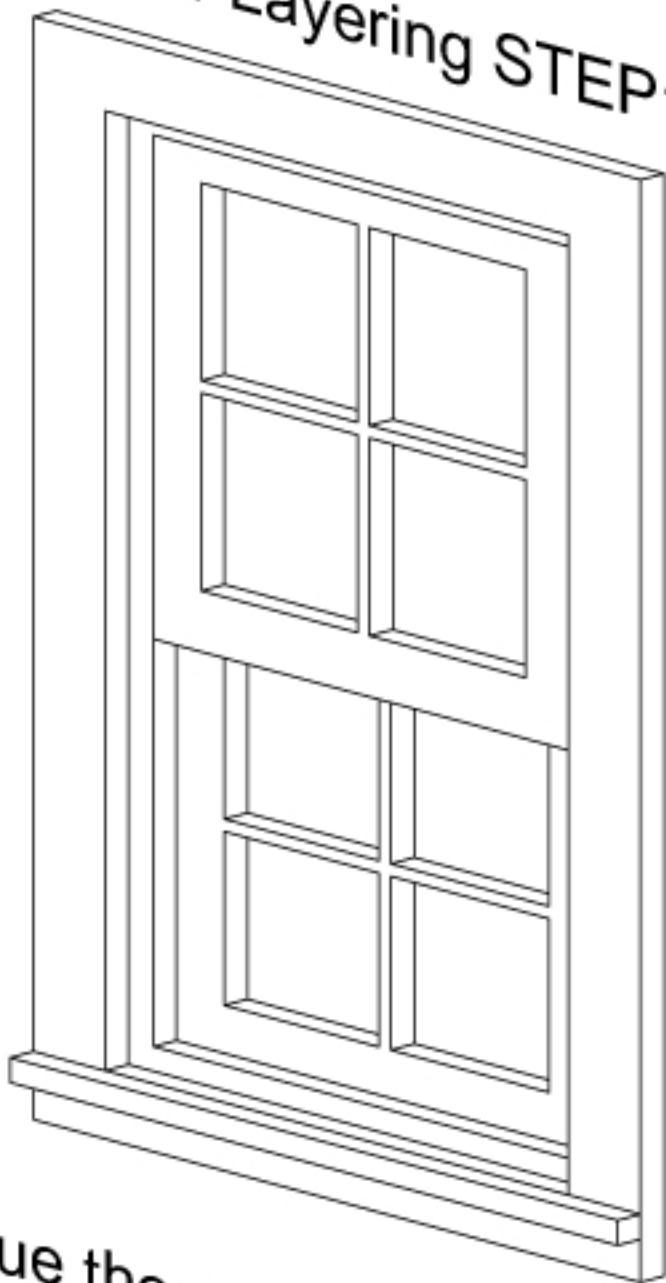
# Window Layering STEP 10



Sill, Layer A

Cut them out completely, around their perimeters.

## Window Layering STEP 11



Finally, glue the window frame to the front of the wall, then glue the sill to the front of the frame. You now have a completely layered window.

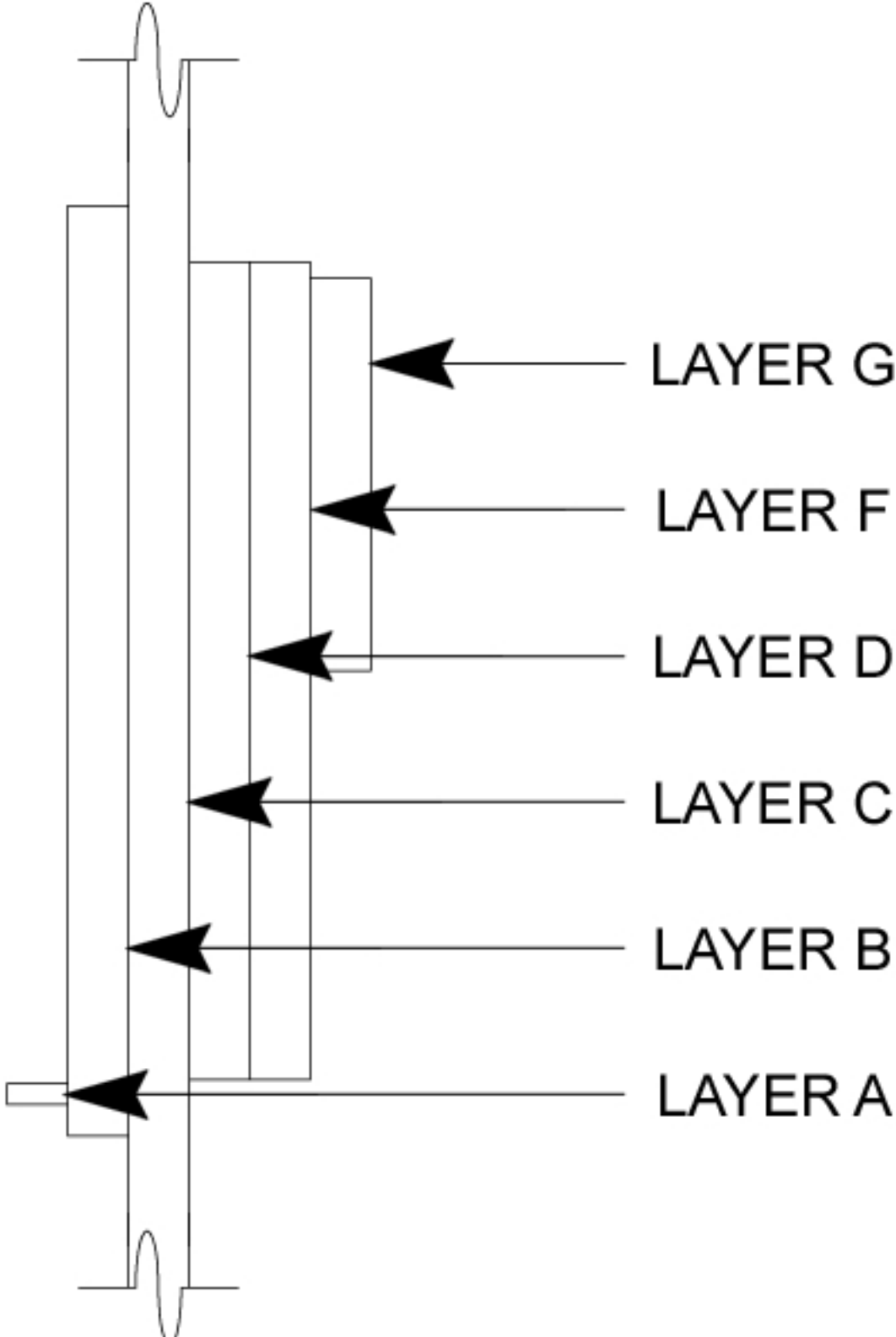
You can see here, more of what a layered window can look like.



04/15/2011



Section of a fully layered window.  
Layer thickness is exaggerated for clarity.



You may think that LAYER E is missing,  
but it is glued to the back of LAYER D and  
hidden in the hole in LAYER F.