CONSTRUCTING FLATS FOR STAGE AND STUDIO

TWO PRIMARY TYPES

BROADWAY or SOFT FLAT

- Common for stage.
- It lays flatter making storage easier.
- Uses more wood.
- Often faced with muslin/light canvas like materials and painted.

HOLLYWOOD or HARD FLAT

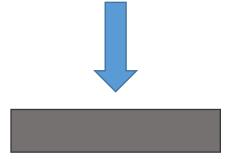
- Common for film.
- Takes up a little more storage space.
- Uses less wood (not including the facing sheets).
- Often faced with plywood and painted.

SOFT FLAT CONSTRUCTION CONSTRUCTION

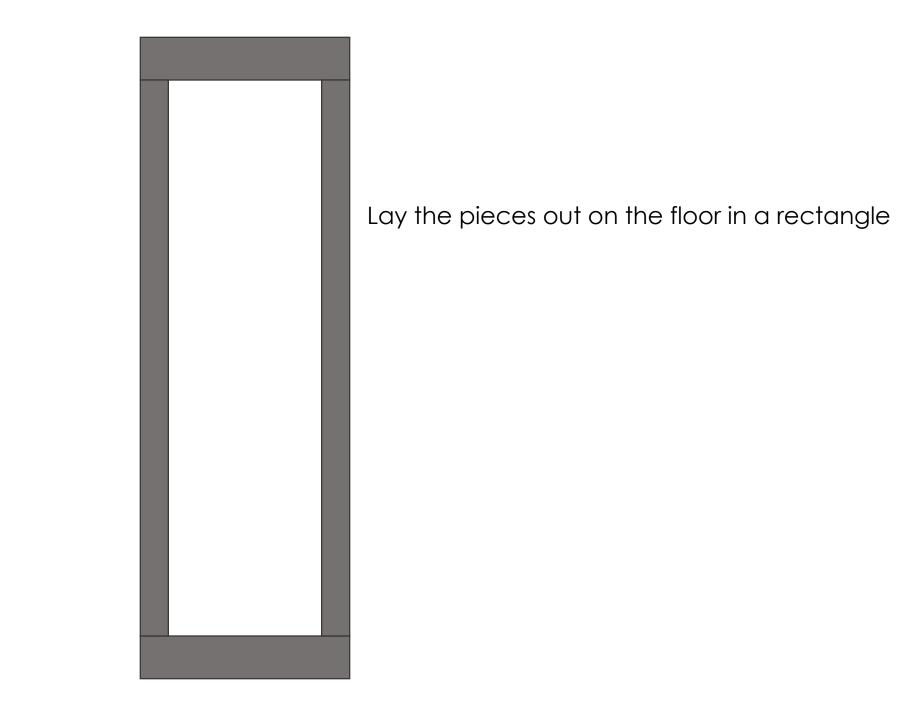
Measure and cut two 7'5" sections of pine 1x4

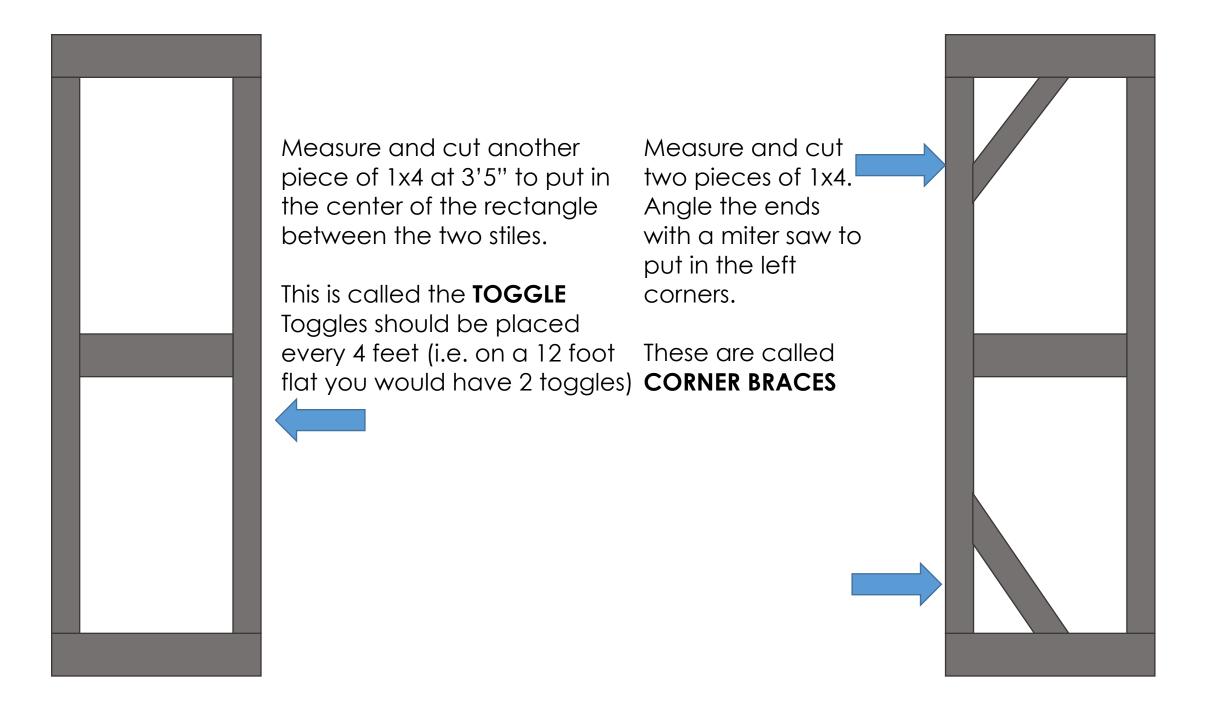


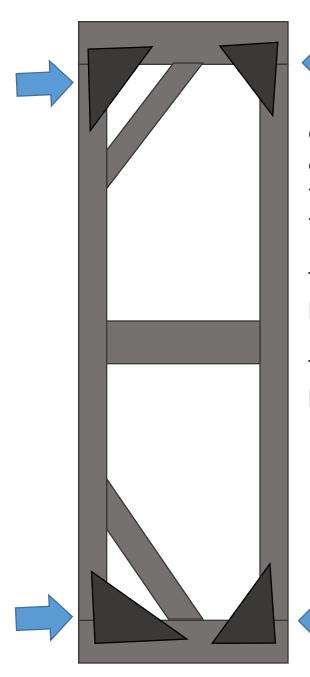
And two 4' sections of pine 1x4

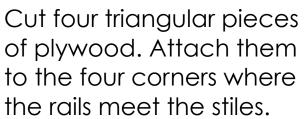










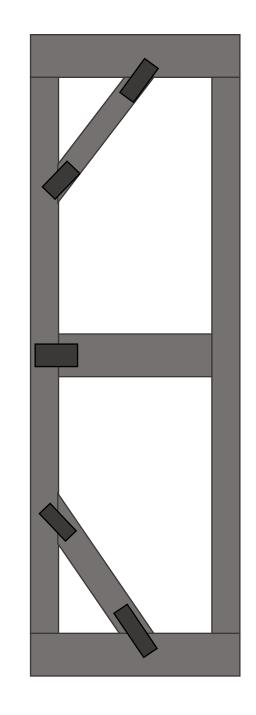


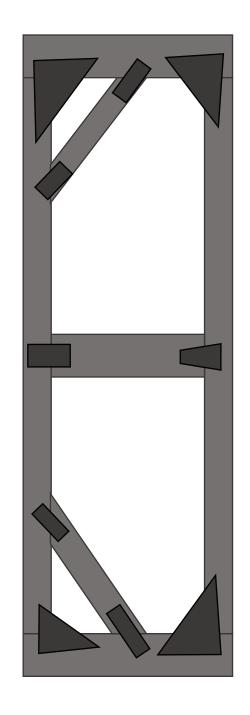
These are called **CORNER BLOCKS**

The corner blocks should be inset on both sides

Measure and cut five strips of plywood. Use them to attach the corner braces to the rails and stiles and the right side of the toggle to the right stile.

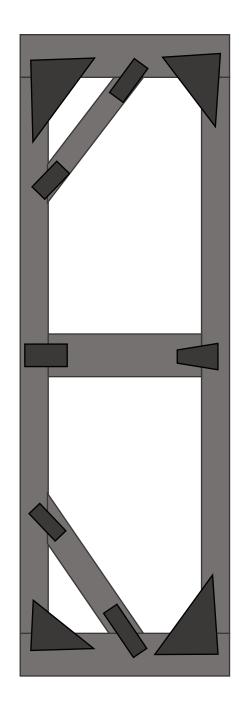
These are called **STRAPS**





Measure and cut a trapezoidal piece of plywood. Use it to attach the right side of the toggle to the right stile

This is called the **KEYSTONE**



This is the back of the flat.

To finish the flat, it is traditionally covered with muslin (canvass) and stapled to the frame. When the muslin is painted and dries it shrinks and tightens around the frame.

The flat can also be made a "hard flat" by using a thin sheet of plywood typically between 1/8" and 1/4"

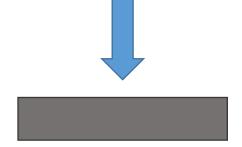


HOLLYWOOD FLAT CONSTRUCTION

Measure and cut two 7'10.5" sections of pine 1x4

These become the STILES

And two 4' sections of pine 1x4

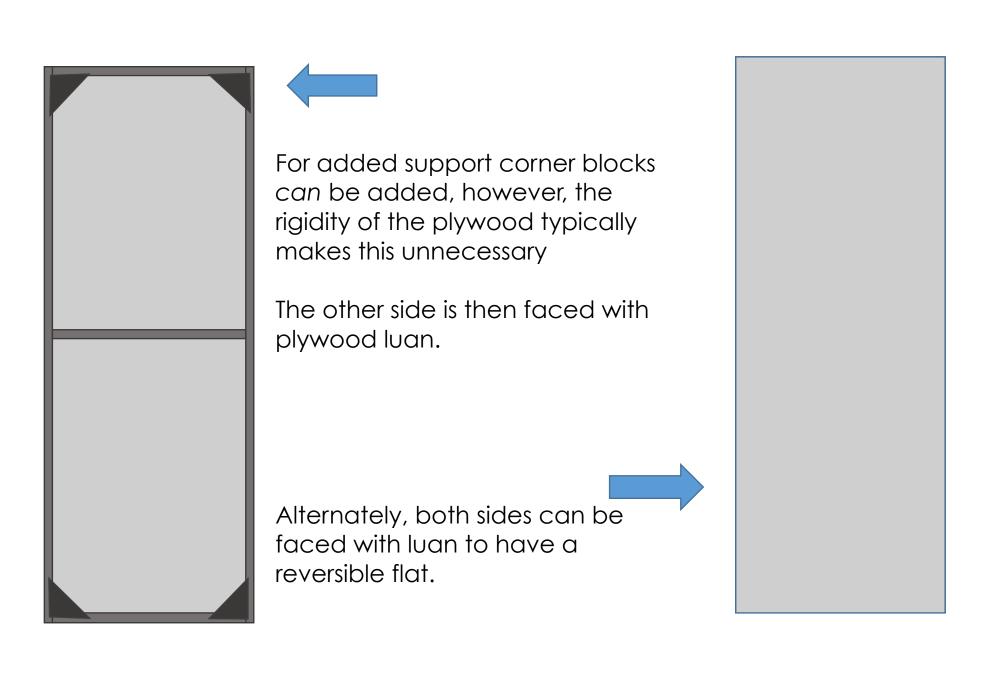


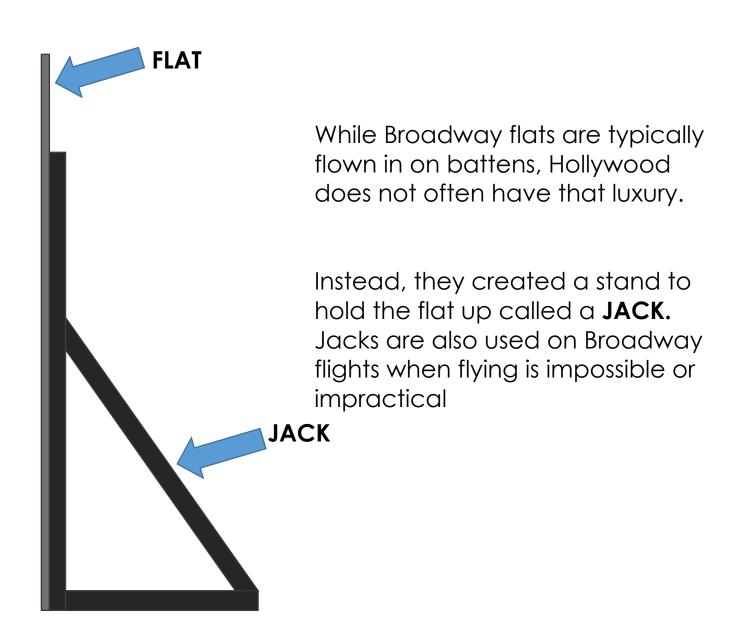
These become the **RAILS**

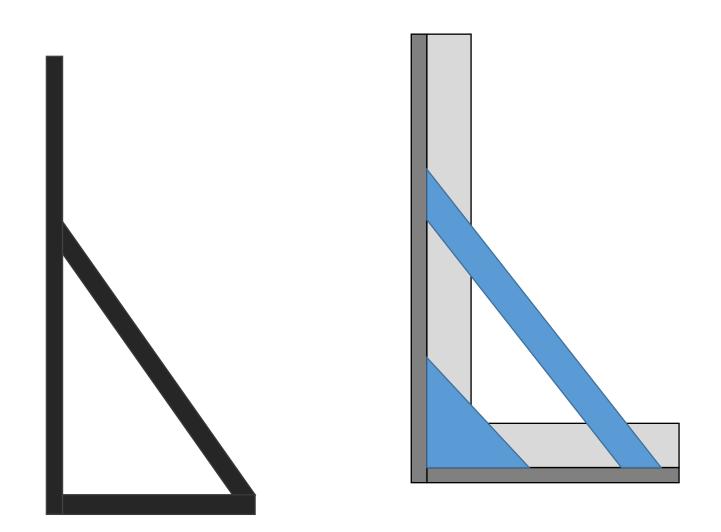
HOLLYWOOD FLAT CONSTRUCTION

For a Hollywood flat, the stiles and rails lay on their edge (i.e. the ¾" side)

Hollywood flats still use a toggle (3'10.5"), however, instead of using straps to attach it to the stiles, they are nailed or screwed directly to each other.





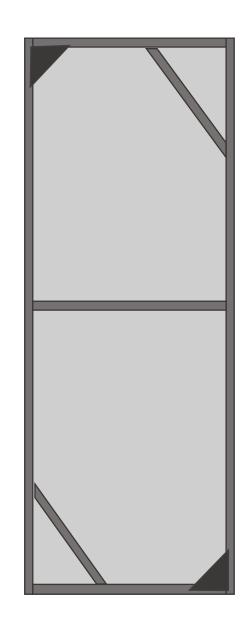


"NIGHTHAWK FLAT" CONSTRUCTION

IRHS uses a hybrid construction for it's flats.

It is essentially a Hollywood flat in it's construction but uses alternating corner braces and corner blocks.

Again, rather than using straps, the braces are screwed/nailed directly to the stiles.



MINI-FLAT PROJECT

For this project you will randomly select a BROADWAY or HOLLYWOOD FLAT w/ JACK

TECH 1's will use screws

TECH 2's will use glue and staples

