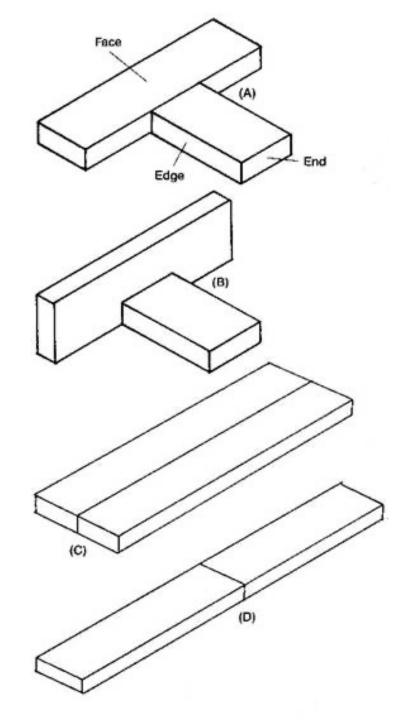
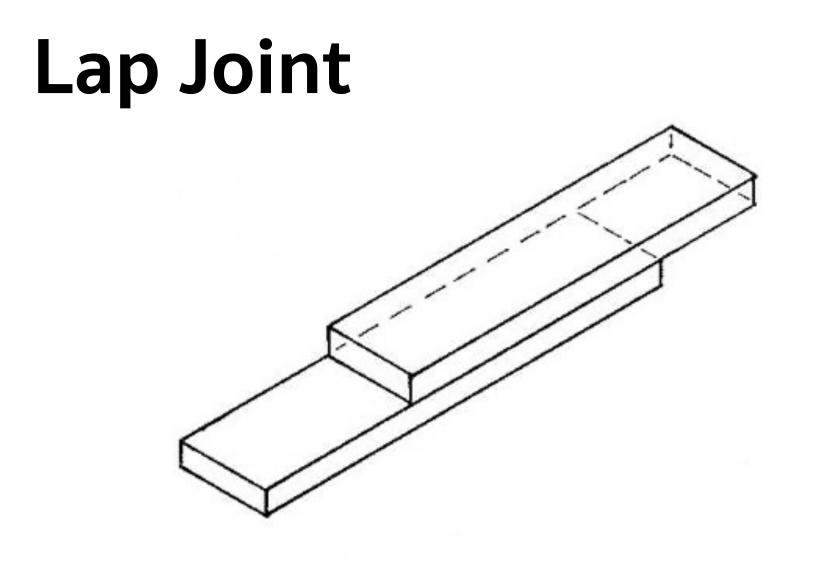


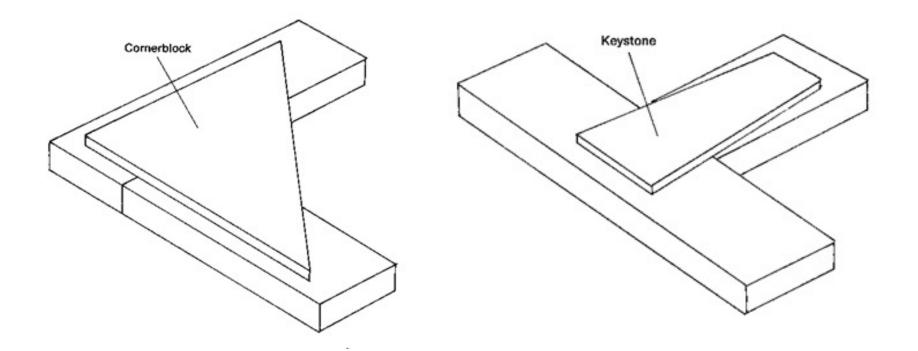
# การสร้างฉากเวที

# **Butt Joint**





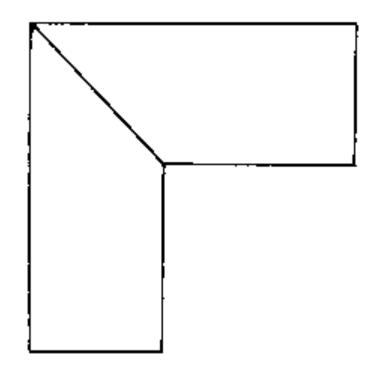
### **Battened Butt Joint**



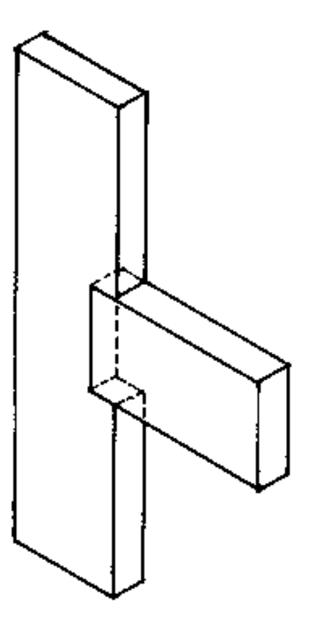
## **Miter Joint**

"Irregular flat"

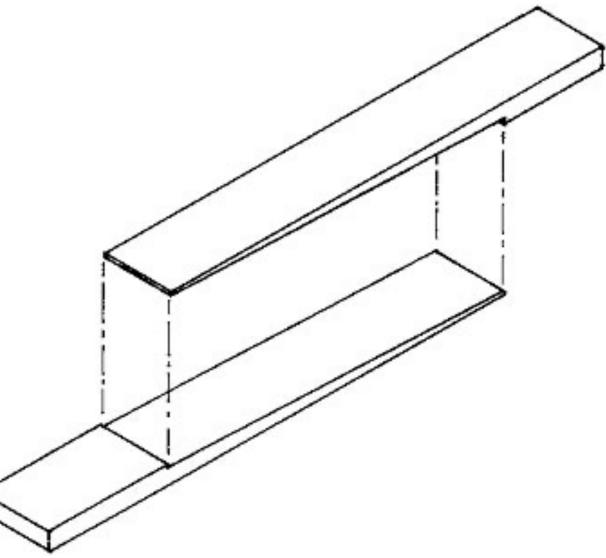
A flat that has nonsquare corners!

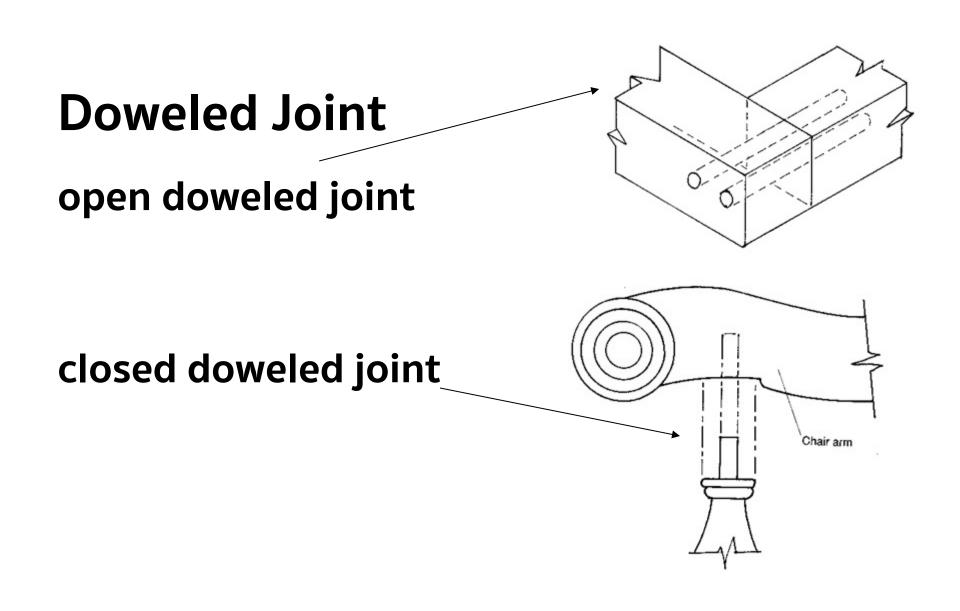


## **Notched Joint**







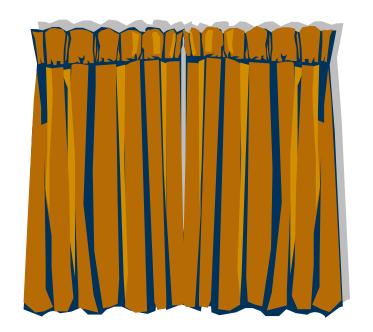


#### **Two-Dimensional Scenery**

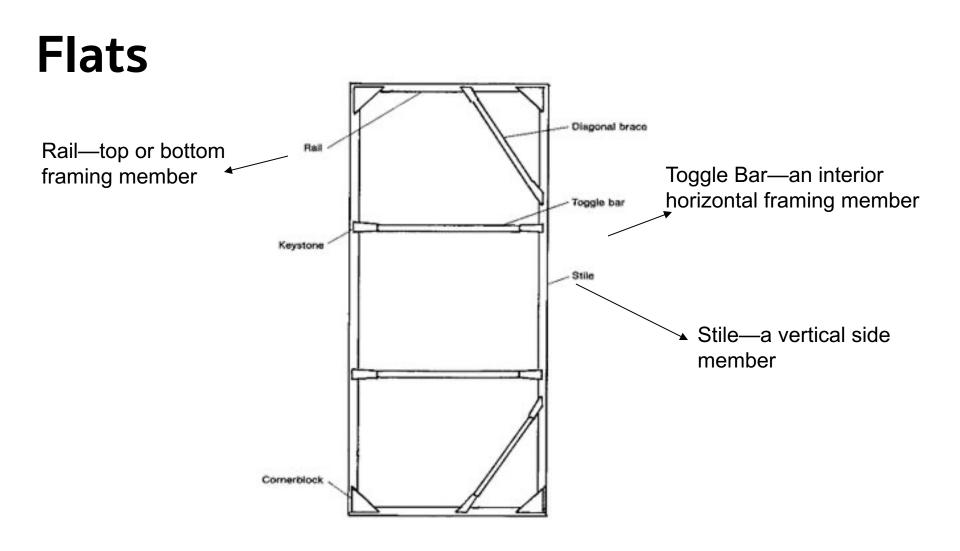
Two-dimensional scenery can be divided into two basic subgroups

Hard scenery—Flats

Soft scenery—Unframed units such as drops and draperies



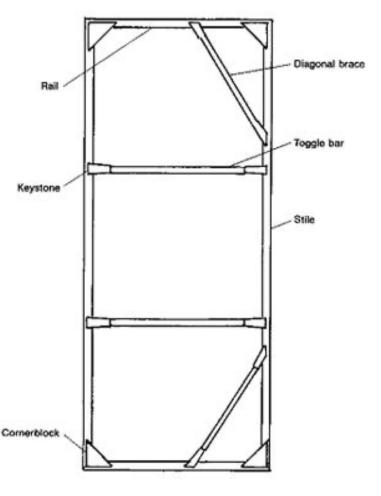




#### Hard Scenery—Flats

Flats are lightweight frames made of wood or steel tubing

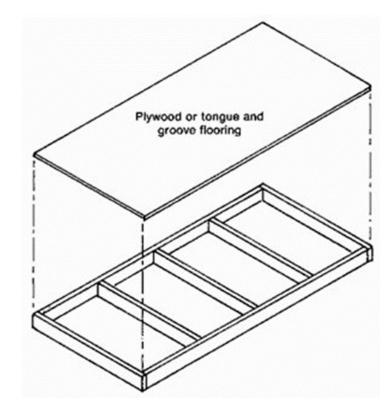
They are normally covered with muslin but can be covered with plywood, Upson board, paper, Masonite, velour, or other fabrics

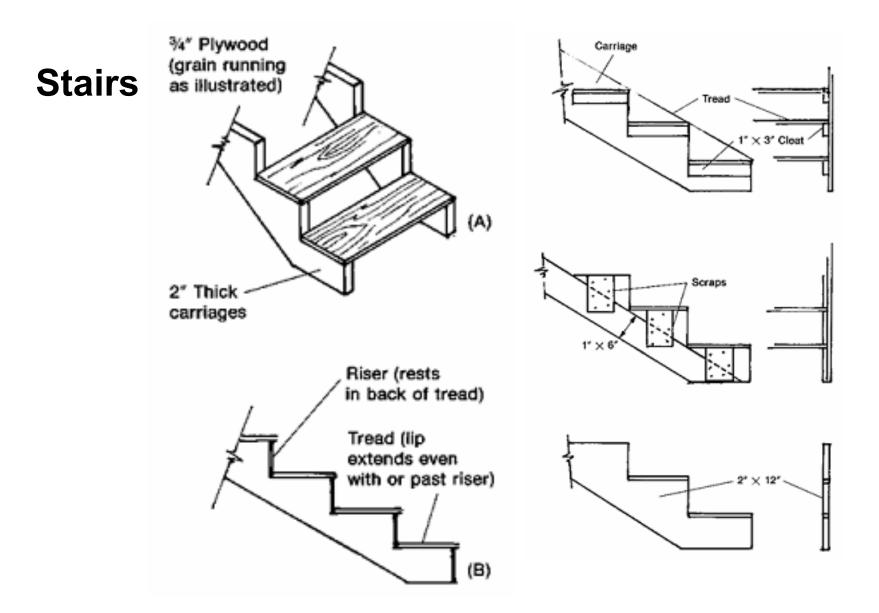


- Rails -These are the top and bottom pieces of lumber that determine the width of the flat
- Stiles these are the side pieces of lumber that determine the height of the flat.
- Toggles these are the pieces of lumber that give support to soft cover flats. They should be placed every 3-4 feet.
- Corner braces -these help keep a soft cover flat square.
- Fasteners corner blocks, for stile and rail joints
- Half-straps, for fastening the corner braces to the rail and stile
- Straps-for fastening the toggles to the stiles.

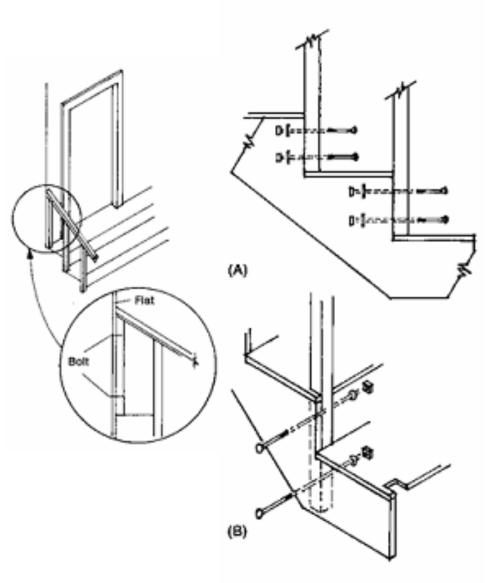
#### **Stage Platforming**

Platforms are used to create levels There are several types of platforms Rigid Wooden Platform Rigid Steel-Tubing Platform Stressed-Skin Platform Honeycomb-Paper Lamination Parallels





## **Staircase Railings**



## Flats

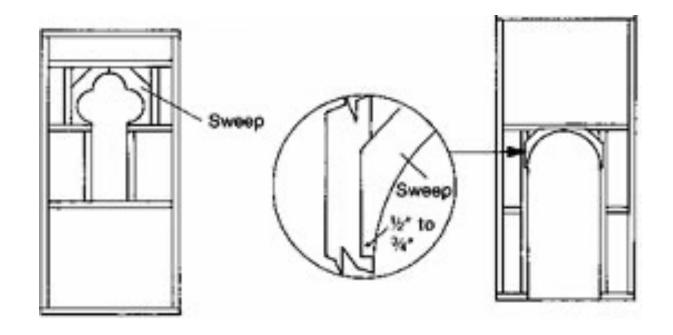
Soft Flats—any flat covered with fabric

Studio Flats—also called Hollywood-style flats, are framed flats that are covered with hard materials, such as plywood. These flats place the framing wood on edge rather than flat for strength

Metal-Framed Flats—uses square metal tubing rather than lumber to frame the flat

## Flats

## **Door and Window Flats**

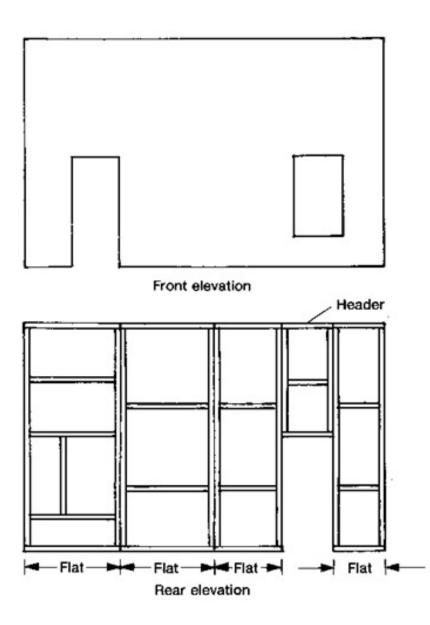


#### Flats: Door and Window Flats

There are two types of stage windows and doors

**Dependent**—unit is fixed to the flat

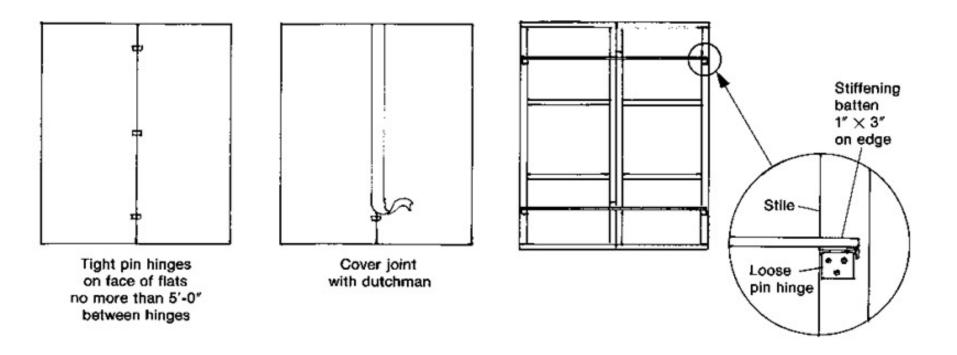
**Independent**—unit is largely self-contained and can easily be attached to or removed from the flat



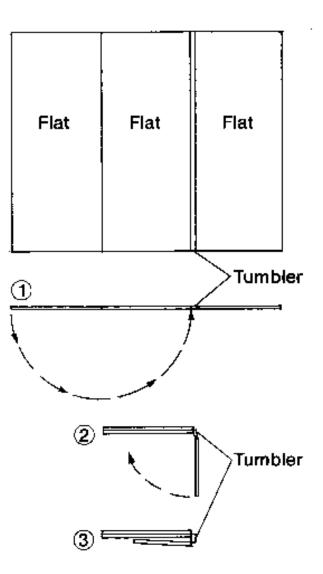
## **Flats: Joining Flats**

#### Flats: Rigid Joining

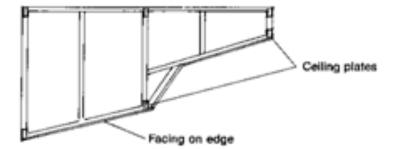
If the multiflat wall does not need to fold, this type of joining is used

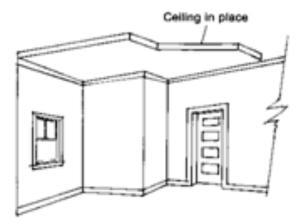


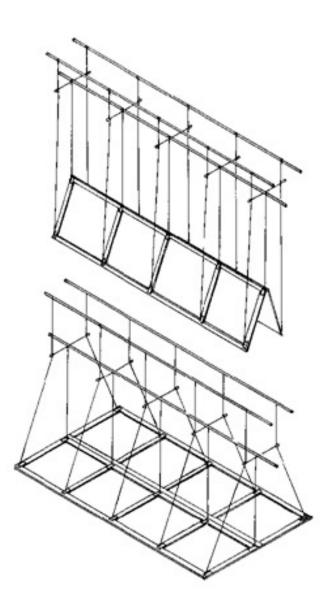
#### Flats: Flexible Joining









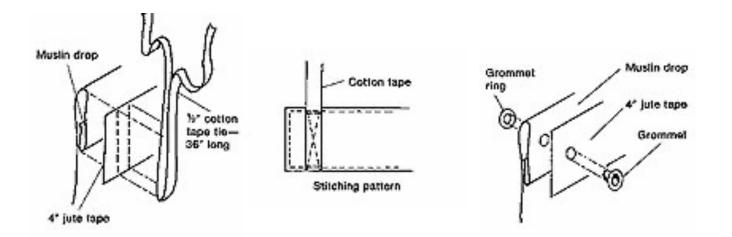


#### **Soft Scenery: Drops**

- Drops are large, flat curtains that have no fullness
- **Tie-Supported Drops**
- Batten-Clamp Drops
- **Opaque Drops**
- **Translucent Drops**
- Scrim Drops
- **Cutout Drops**

#### **Soft Scenery: Tie-Supported Drops**

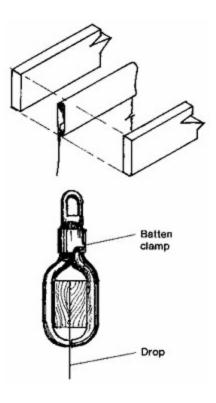
The easiest way of hanging a drop is to tie it to the batten



### Soft Scenery: Batten-Clamp Drops

Drops are sometimes attached to a counterweight batten with batten clamps

The batten clamp facilitates rapid hanging or removal of a drop



#### **Soft Scenery: Opaque Drops**

Made of heavyweight muslin, these drops are painted with opaque paints and are lit from the front

The audience cannot see through them

### **Soft Scenery: Translucent Drops**

Made of heavyweight muslin, these types of drops are painted with dyes or a combination of dye and opaque paint

They are lit form both front and back, making the areas that have been dyed translucent

#### **Soft Scenery: Scrim Drops**

Made from sharktooth scrim or theatrical gauze, scrim drops can become transparent when the scene behind it is lit

They can be painted with either dyes or thinned paints

#### **Soft Scenery: Cutout Drops**

These types of drops have sections cut out of the material

They create a sense of depth and should be painted before being cut to prevent curling

#### **Soft Scenery: Draperies**

The two types of draperies used in the theatre are stage draperies and curtains

A more thorough discussion of stage draperies appears in Chapter 4, while curtains are covered in Chapter 11

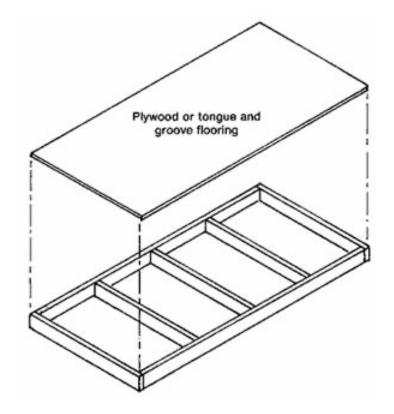
#### **Three-Dimensional Scenery**

The term refers to the construction of platforms, stairs, and other similar objects

#### **Rigid Wooden Platform**

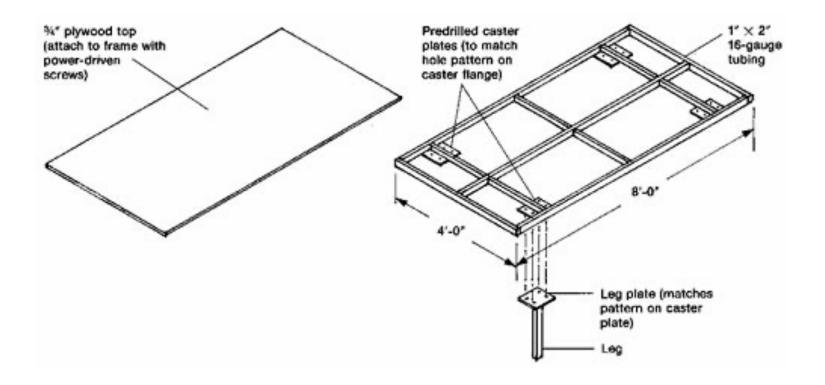
The easiest and least expensive stage platform to build

The legs are detachable, so its height can be easily varied



#### **Rigid Teel-Tubing Platform**

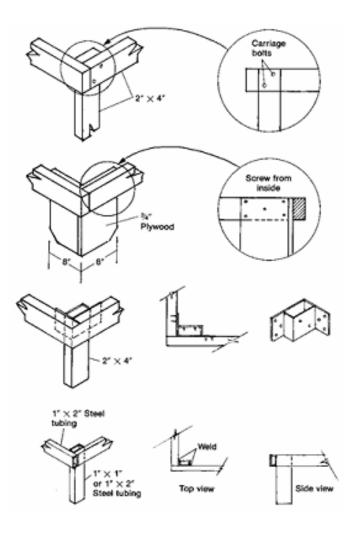
Steel tubing can also be used to fabricate rigid platforms



### **Rigid Platform Legs**

Legs for rigid platforms can be fabricated from a variety of materials

All platform legs over 18 inches tall should be braced, regardless of the material of which they are made



#### **Stressed-Skin Platform**

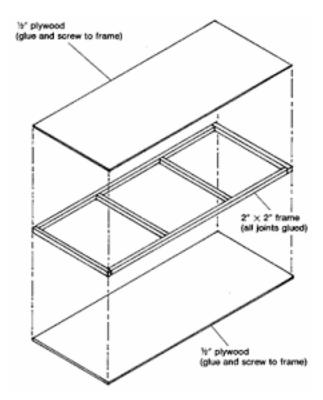
Stressed-skin construction involves securely gluing or screwing plywood "**skins**" to an internal framework that is nailed and glued

Because the skins can be "**laminated**" from two sheets of easily warped plywood, stressed-skin construction can be used for making curved platforms

#### Skin

A plywood covering for the top or bottom of a platform

**Laminate:** To build up an object from several layers



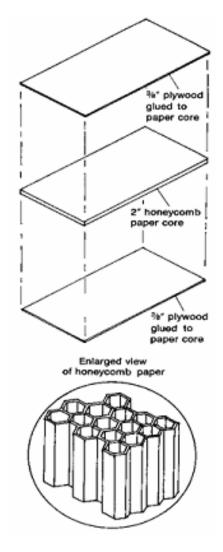
#### **Honeycomb-Paper Lamination**

This lamination method is based on the principles used to fabricate the wings of supersonic aircraft

These platforms are made by sandwiching "honeycomb paper" between two sheets of plywood

#### Honeycomb paper

A manufactured paper product with a hexagonal structure similar to a honeycomb

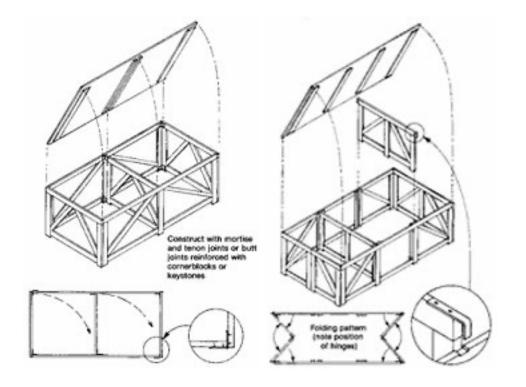


#### Parallels

Another type of platforming that comes in two varieties. In both, the top is removable and the framework folds for compact storage

Standard parallel: this platform is hinged to fold like a giant parallelogram

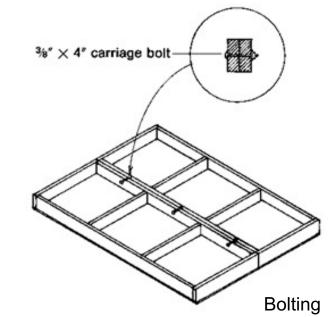
**Continental** parallel: this platform is hinged differently than the standard. It folds into a more compact unit, but its center supports must be removed first

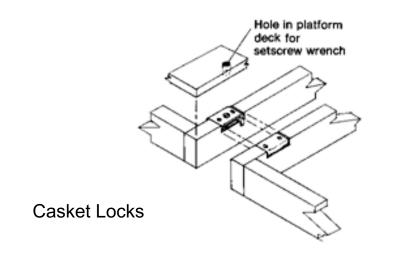


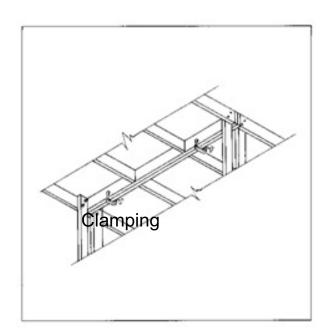
### **Connecting Platforms**

Platforms must be connected to improve the lateral stability of the floor unit

Platforms can be connected in a number of ways







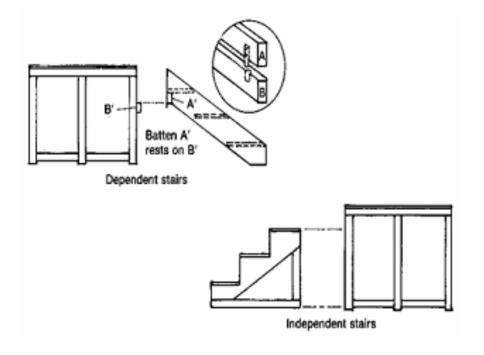
#### **Stairs**

Two basic types of stairs are used in scenic construction

Dependent—units that require support from some other element (such as a platform)

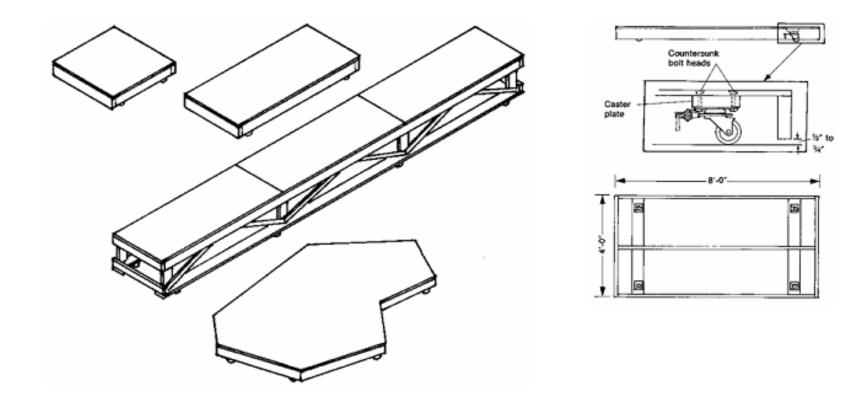
Independent—units that are self-supporting

While the support method is the primary difference between the two types of stairs, the actual construction of the units is similar



#### Wagons

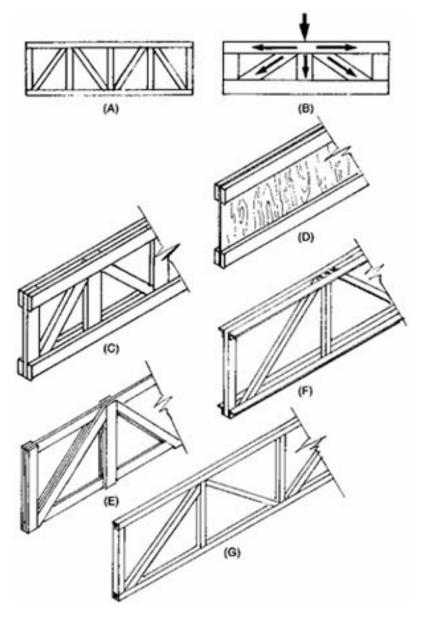
Wagons are usually rigid platforms that rest on casters instead of legs



#### Trusses

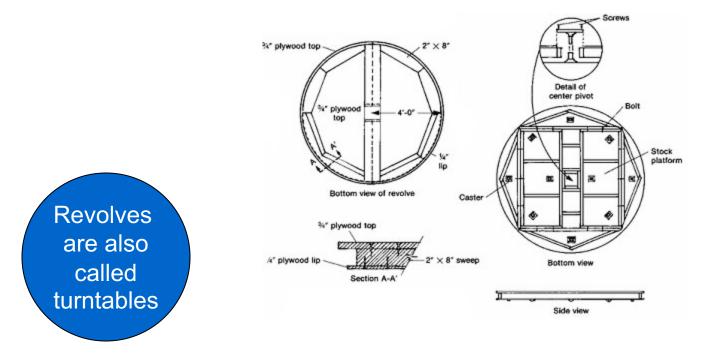
Trusses are used when it is necessary to bridge a large span between supporting points

They can be wooden or welded-steel

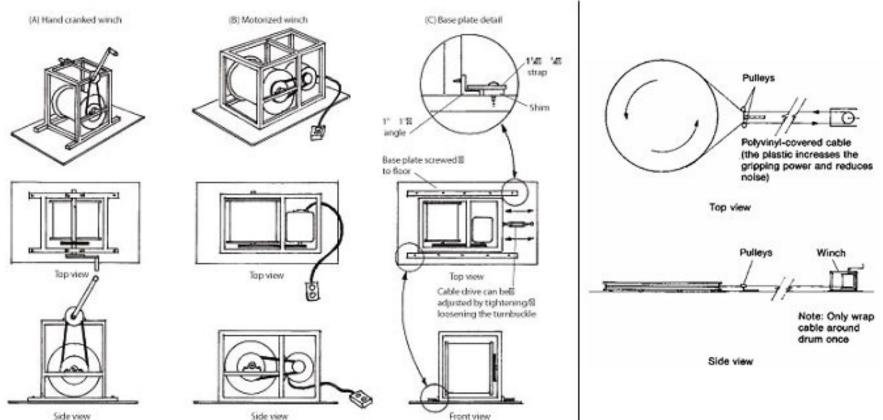


#### **Revolves**

Revolves are large, circular platforms that pivot on their central axis Revolves can be built using any standard platform-construction technique The rigid platform method seems to work best



#### **Winch-Drive Systems**



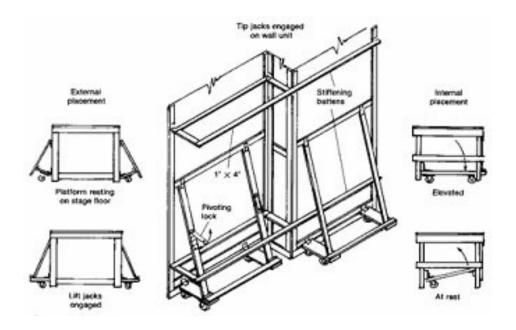
Side view

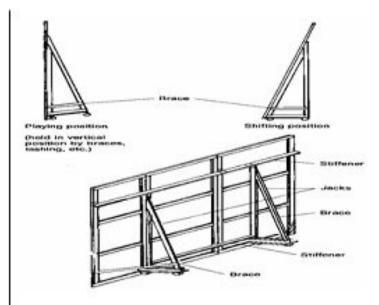
### **Platform-Anchoring Techniques**

Wagons that hold three-dimensional scenery need to be anchored

Lift Jack

Tip Jack

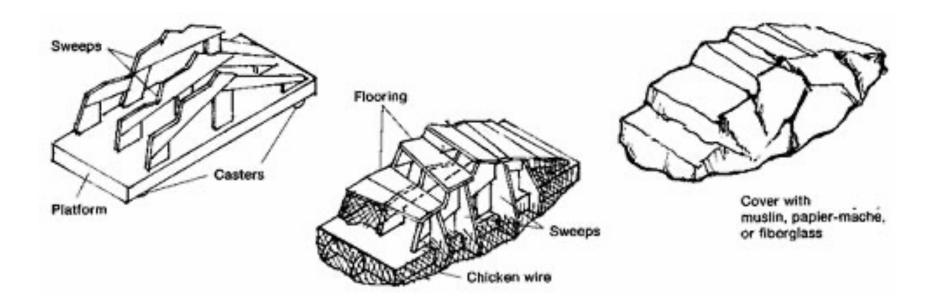




#### **Rocks, Irregular Platforms, and 3-D Trees**

All of these items are built in approximately the same manner

These items have surfaces that are not straight, square, or level



#### **Rocks, Irregular Platforms, and 3-D Trees**

The irregular quality is achieved with chicken wire and papier-mâché

Trees can also be constructed using burlap for the bark or foam

