Disability Systems, Inc.
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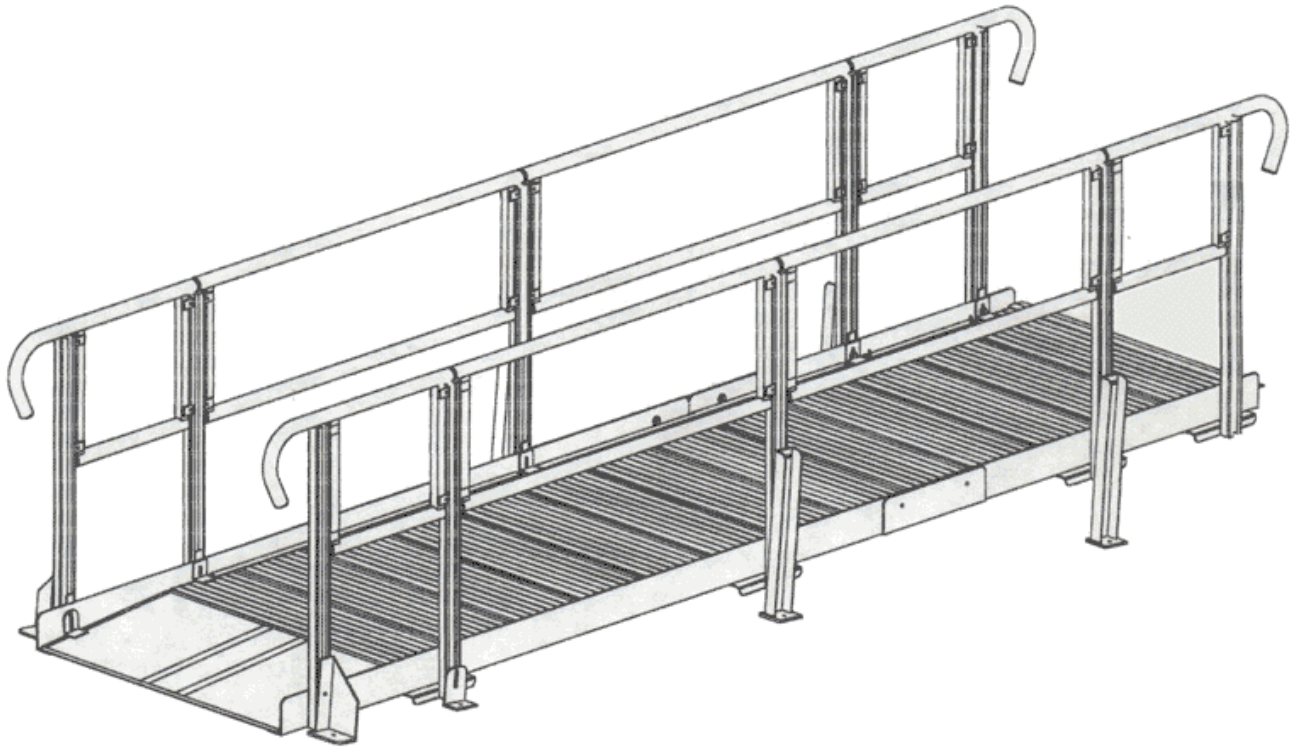

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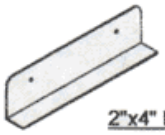
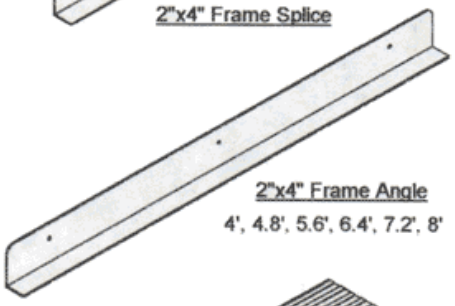
Ramp Systems
On The Move

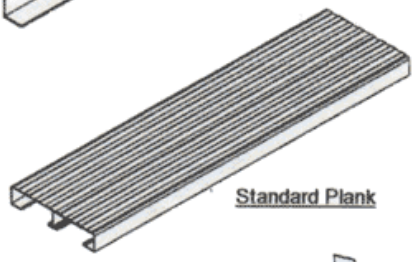
Modular Ramp Parts List



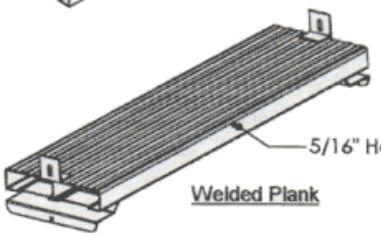
2"x4" Frame Splice



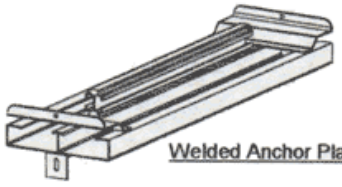
2"x4" Frame Angle
4', 4.8', 5.6', 6.4', 7.2', 8'



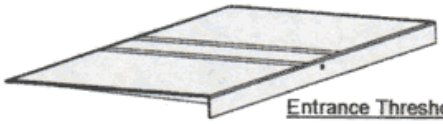
Standard Plank



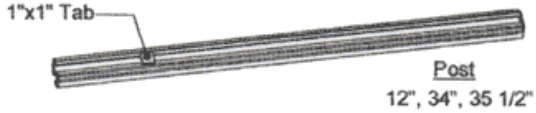
Welded Plank



Welded Anchor Plank



Entrance Threshold



Post
12", 34", 35 1/2"

Upper T

Support Bracket Left

Support Bracket Right

Entrance Clip

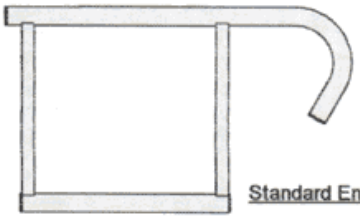
Handrail Clip

Slide Nut

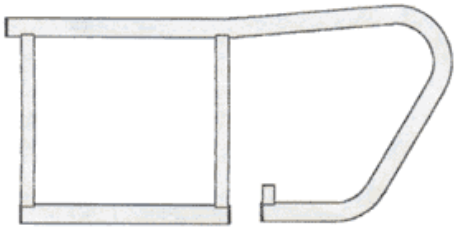
4" Foot

Legs
18", 30", 42", 54"

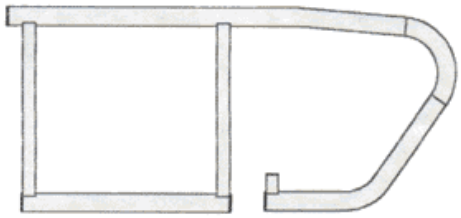
Handrail
9 1/2", 19 1/4", 28 3/4", 38 1/2", 48"



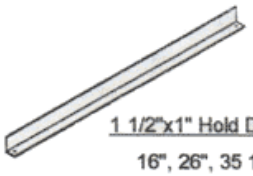
Standard End



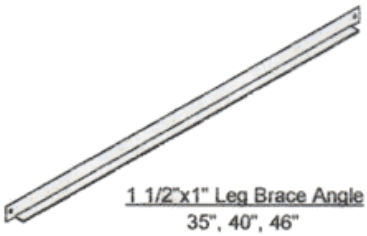
ADA Bottom Handrail



ADA Top Handrail



1 1/2"x1" Hold Down Angle
16", 26", 35 1/2", 45"



1 1/2"x1" Leg Brace Angle
35", 40", 46"

Tools Required

1. 1/2" Wrench
2. 1/2" Socket
3. 7/16" Wrench
4. Two sturdy sawhorses (or something similar)
5. Poprivet tool for 1/8" poprivets
6. 1/8" and 11/32" drill bit and drill for installing poprivets
7. Anchor Bolts
8. Tools for installing the anchoring system that is chosen
9. Level

Assembling Ramp

Note: Before you begin to assemble the ramp it is best to first lay all your material out and check everything off the packing list to be sure that all the material you need is there.

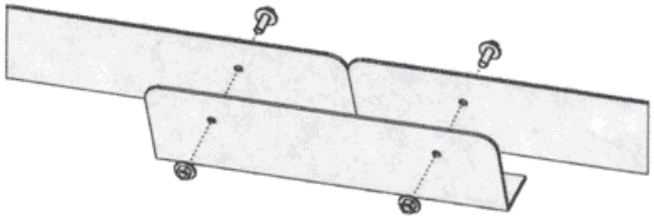


Figure 1.

Ramp Frame

Place 2"x4" frame angles on saw horses with 2" leg of angle facing each other. Depending upon the length of your ramp you may have to splice frame angles together. Example, a 12' ramp would take a 8' angle and a 4' angle attached together with a splice. Insert a 5/16"x7/8" hex bolt with washer through holes in splice and holes in frame angle, and a washer and 5/16 lock nut on opposite side. (See Figure 1.)

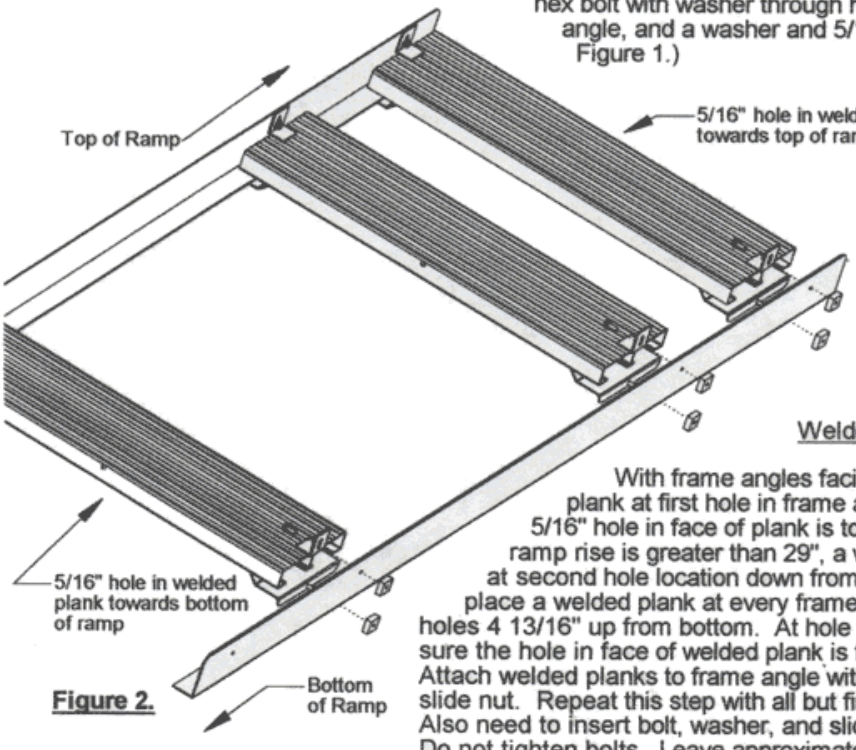


Figure 2.

Welded Plank

With frame angles facing each other, place a welded plank at first hole in frame angle at top of ramp. Make sure 5/16" hole in face of plank is towards top of ramp. NOTE: If ramp rise is greater than 29", a welded anchor plank may be required at second hole location down from top of ramp. (See Figure 9.) Next place a welded plank at every frame rail hole location except for last holes 4 13/16" up from bottom. At hole location 2' up from bottom, make sure the hole in face of welded plank is facing out towards bottom of ramp. Attach welded planks to frame angle with 5/16"x7/8" hex bolt, washer and slide nut. Repeat this step with all but first hole location at bottom of ramp. Also need to insert bolt, washer, and slide nut in bottom hole on welded plank. Do not tighten bolts. Leave approximately 1/8" between slide nut and frame angle for post to slide in. (See Figure 2.)

Entrance Threshold & Upper T

Attach entrance threshold to bottom of ramp by inserting a 5/16"x7/8" hex bolt with washer and nut through hole in threshold and plank. Do not over tighten. Position an entrance clip on top of the threshold, lining up with the holes 4 13/16" up from bottom. Insert through slot in clip and hole in angle, a 5/16"x7/8" hex bolt with washer and slide nut on opposite side. (See Figure 3.) Attach upper T to top of ramp. Attach it to plank with 5/16"x7/8" bolt, washers and locknut. NOTE: If ramp is between landings, entrance threshold would be replaced by a welded plank at last hole location at bottom of ramp with another upper T attached to it.

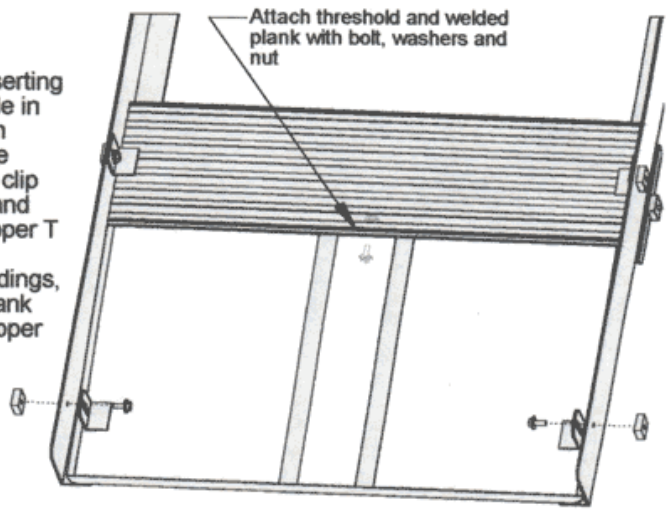


Figure 3.

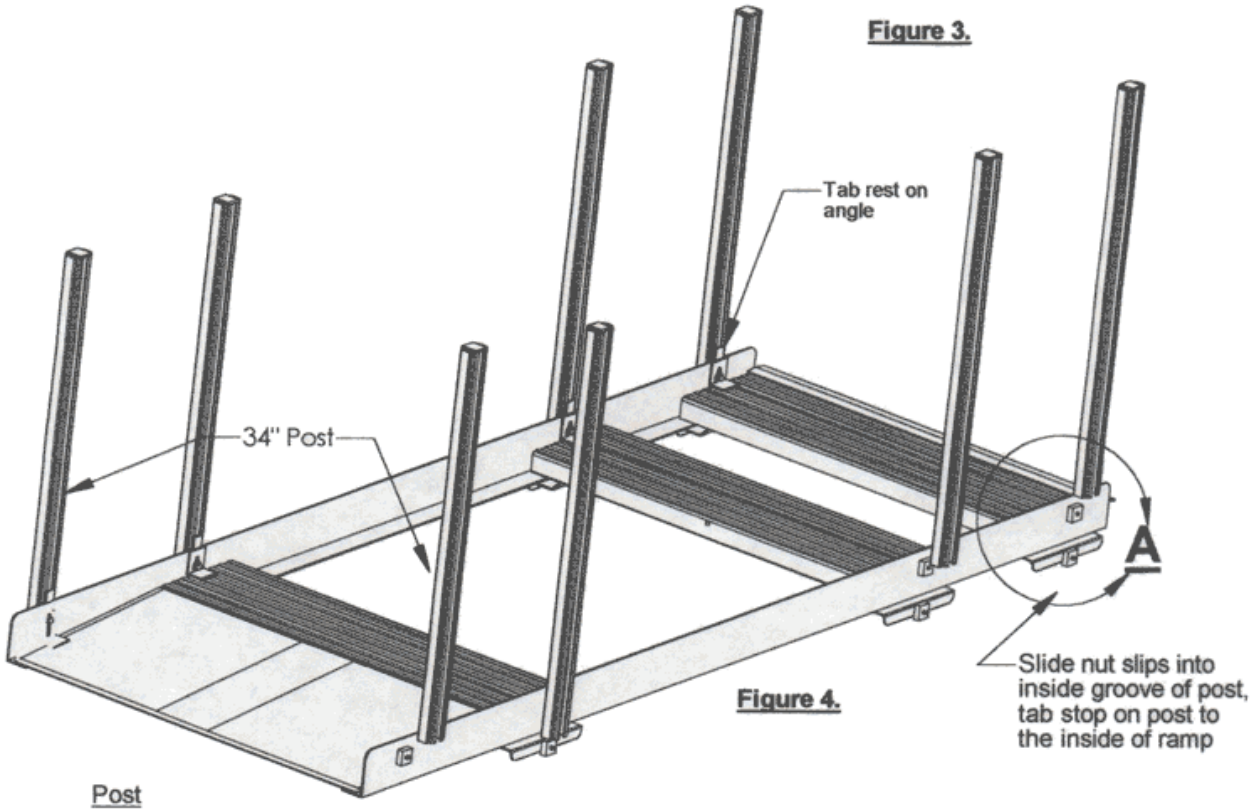


Figure 4.

Post

Next, attach the 35 1/2" post. Post will be attached at every location where there is a welded plank. You also have two 34" posts that are to be placed at the very bottom hole location. (See Figure 4.) To attach these posts to the ramp, line up the post with the slide nuts located on the sides of the ramp. With the welded tab on the post facing to the inside of ramp, begin to slip the first slide nut into the inside groove of the post. Continue to slide the post down until both slide nuts are inside the groove and welded tab is resting on the 4" leg of angle. Tighten enough so post does not slide down. (See Detail A)

Handrails

With post attached to ramp, next install handrails. You should have four standard end or optional ADA handrails located, two at top and two at bottom. You will have different size handrails in-between these depending upon length of ramp. It's best to start from one end and move to the other. Place the required handrail for that location in-between the posts. Attach handrails to posts with handrail clip, 1/4"x1 3/4" carriage bolts, and 1/4" lock nuts. (See Figure 5.) With all handrails on, tighten them down. Next tighten down all posts. Make sure when tightening down the bottom 34" posts, hold down the entrance threshold and clip so threshold sits on frame angle.

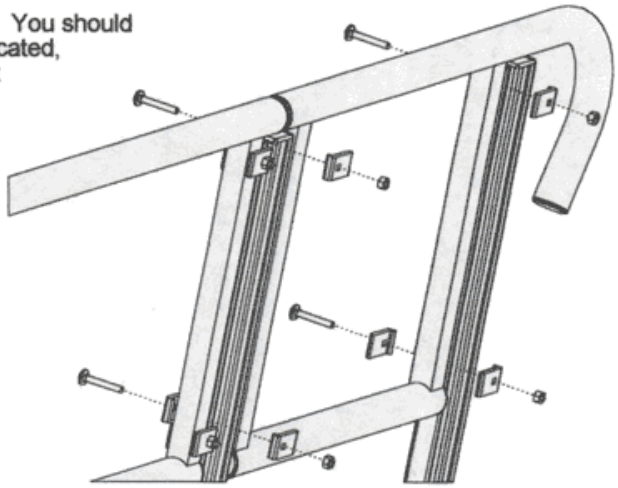


Figure 5.

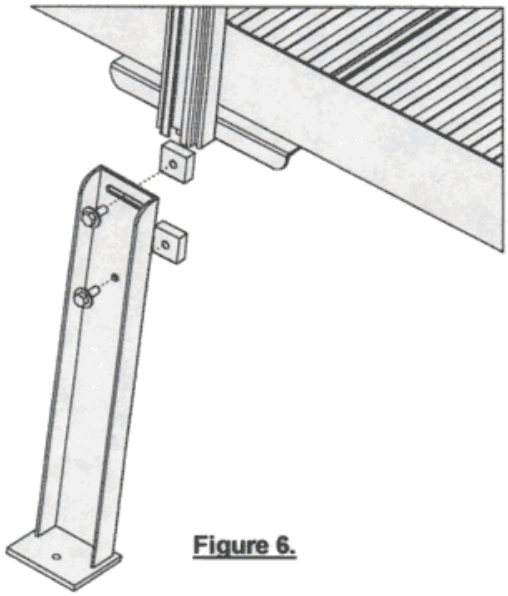


Figure 6.

Legs

Next attach legs. To find where legs are located on ramp, first look at the packing list. There is a chart on the bottom that indicates the different leg lengths and the location of each pair on the ramp. With the channel of leg facing you, insert into the slot and the hole below a 5/16"x7/8" hex bolt with washer and a slide nut on opposite side. Repeat this with all the legs. Again, refer to packing list. The first pair of legs should be located two feet down from the top of the ramp. Attach these legs by sliding the slide nuts up the outside groove of the post and tighten enough so they do not slip down. Continue this until all legs are attached. (See Figure 6.) At the very bottom post location, install the support brackets. In the 2" leg of brackets insert into the hole a 5/6"x7/8" hex bolt with a washer and a slide nut on opposite side. Slide these into the bottom 34" post and tighten to keep in place. (See Figure 7.)

Next, remove ramp from sawhorses. Line the ramp up where it will be located on an existing landing or a PVI one. Raise the top of the ramp to its required height, adjust the legs so the plate on the bottom of them is sitting flat on the ground, and tighten. Adjust the other legs the same way. Tighten all legs and posts to 17 ft. lbs of torque.

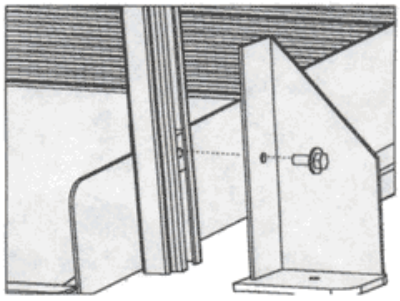


Figure 7.

With ramp then in its location, next install the standard plank and hold downs. Fill in open spaces in ramp with these plank. To secure, place between plank ends and 2"x4" angles, 1 1/2"x1" hold down angles. Place required length in-between angle on welded planks. Next attach hold downs to plank. With them in place, drill through hold down and welded plank with an 1/8" bit. Repeat this step on each plank and at each hold down location. Insert into each hole a poprivet and rivet these down secure with a rivet gun. (See Figure 8.)

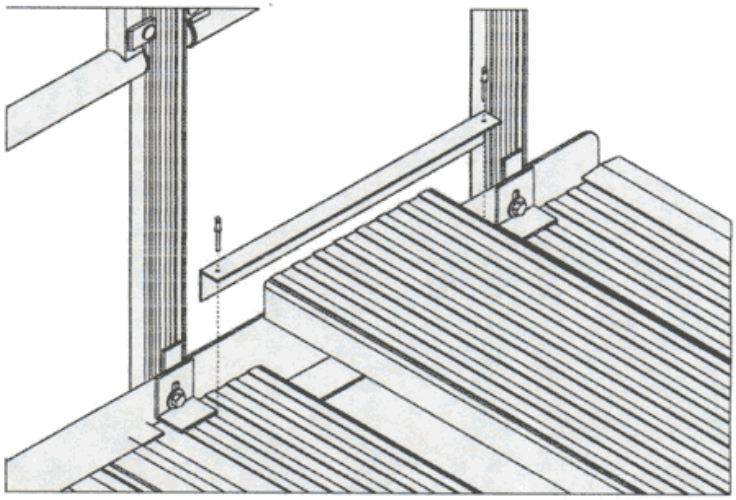


Figure 8.

Anchoring Ramp

With ramp in place be sure to anchor the ramp down to the ground. If you are installing ramp over a lawn or some other surface, we suggest that you use some sort of concrete footings under each leg. Concrete patio blocks work great and are usually inexpensive. Anchor footings with concrete anchor bolts through plate on each leg.

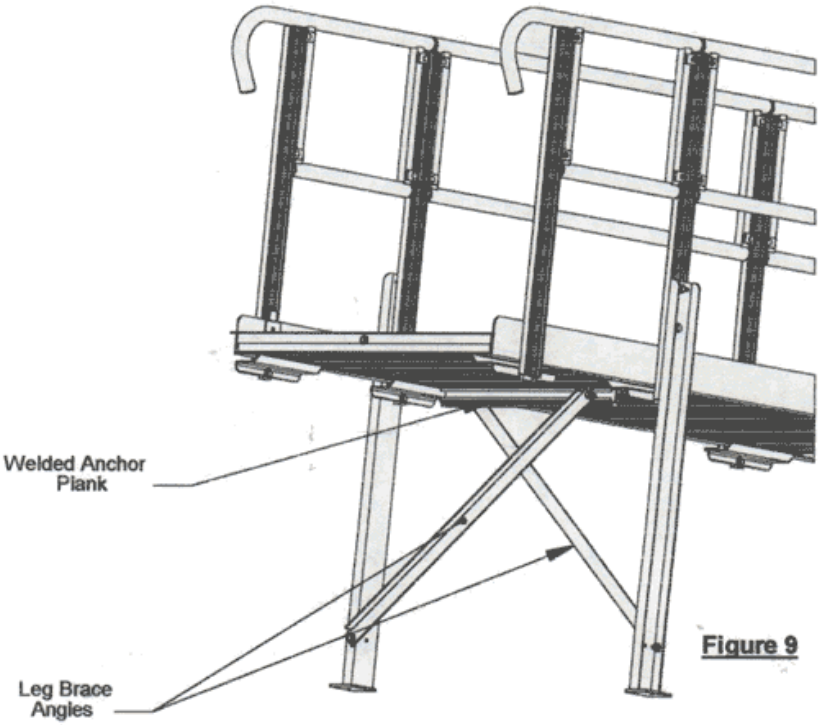


Figure 9