

Children's Slide

Bill of Materials

Quantity	Description
21	16"x 1" pipe
2	6'8"x1" pipe
2	12"x 1" pipe
2	9'x 1" pipe
2	8"x1" pipe
20	3"x 1" pipe
2	4'x 1" pipe
2	18"x 1" pipe
2	36"x 1/2" rod
2	30"x1/2" rod
2	6"x1/2" rod
2	5"x1/2" rod
2	26"x1/2" rod
26	3-1/2"x 1/4" carriage bolts
22	#8 x 3/4" round head wood screws
1	10'x 16"x 1/16" sheet metal
2	18"x 2"x 3/8" sheet metal
6	3"x 1"x 3/8" sheet metal
2	12'x 2"x 4" boards
4 lbs.	welding rods
1 quart	rusty metal primer
1 pint	silver paint
1 pint	red paint

The ladder was made by taking nine pieces of 1" pipe 16" long and welding them to the 6'8" pieces of 1" pipe. They were placed on 8" centers starting 9" from the bottom and leaving 7" at the top to get proper height, and to make a level portion at the top of the slide. The 6'8" pieces were laid on a flat surface with the 16" top and bottom pieces in place. They were squared and held in place with pipe clamps, and tack welded. The other seven pieces were then squared, clamped and tacked. After all the steps were tacked in position, they were welded on the ladder.

The supports for the side were made by welding two of the 3" pieces of 1" pipe on each end of a piece of 16" pipe. A square was used to keep them square. Ten of the pieces were made. Nine of these were welded to the bottom of the two 9' pieces of 1" pipe, starting at the bottom end and placing them on 12" centers, except for the top one which was moved up to 10" from the top. Pipe clamps and C-clamps held them in position while they were tacked in place.

Two 12" pieces of 1" pipe were cut at a 45° angle on one end. The angle cut ends were flattened and welded to the bottom of the slide. On the end of this two 8" legs made out of 1" pipe were welded. Then the other slide support was welded in the middle of the 12" level part of the slide.

The top end of the ladder and slide were flattened and welded together so the ladder would lean forward about 10°. The 4' and 18" brace was placed between the ladder and slide, one on each side of the slide. Besides increasing the strength of the slide, it also provides an additional place for the kids to play, kind of a mini jungle gym.



The next step was putting the bottom in the slide. It was laid in place and rolled around the top pipe on the ladder and spot welded in place. The sheet metal was rolled around the bottom slide and spot welded in place.

The 2"x 4" boards were cut and bolted to the sides of the slide to hold the bottom in place. One 3-1/2"x 4" carriage bolt was placed between each support on the slide. C-clamps were used to make sure the board was tight against the side and bottom and an electric drill was used to drill the 1/4" hole. To make the bottom stronger, put one #8 x 3/4" round head wood screw up from the bottom through the sheet metal into the 2x4. The 1/2" metal rod was used to make the top hand holds and safety sides. Two of each of the following sizes were used.: 5", 6", 26", 30", 36". The 26" piece was welded straight up the ladder with a 6" overlap on the ladder. The 5" piece was welded 30" down from the top of the piece of the top of the ladder. This is welded perpendicular to the ladder. The 6" piece is welded perpendicular to the slide at the second support down from the top. The 36" piece was placed at the top of the 6" piece and the rod was laid across the top of the 26" piece with a 5" overlap. The 5" overhang was bent down to level with the ground. The 30" piece was welded between it and the 5" piece.

A 2"x 18" piece of 3/8" sheet metal was placed on the bottom of the ladder and slide to prevent the pipe from sinking into the ground. Three pieces of 3"x 1" sheet metal act as spikes to prevent sliding.

All rough or sharp edges were removed with files.

The 2 x 4's were sanded, and the slide primed, then painted.