Build Instructions for Towers of Doorn

- 1. Measure and cut 4' x 8' sheet of plywood in h(alf ask Home Depot to do it!)You will use one 4' x 4' sheet for thecourse base.
- 2. Attach a support frame to the underside of the course base. Cut down TWO of the 1"x 2"rxin&g F Strip boards to build a frame to support the bottom base of the courseach strip should be approximately 4' to fit along thedge of the underside of baseAttach the 4' x 4' plywood to the frame using four 11/4screwsaround .plywood):
 - a. Out the ramp'stop platform first making it 6 long and 7" wide.
 - b. Ostutche timatithee stoop aside of the lineer p. The horizontal C

ooth transition. The tapes weremade by first e at a 45 degree angle with a table saw (45 degrees deput a sharper angle would be better The angle to sander to make the angle shall piet anderror

Attach the ramp's6" x 7" top platformto these The screws were precilled and countersunk to slightly below the

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ne bottom of the

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- mark on the supports on both sides of the ramp base-2x/83 from the outside edge the ramp supports (see Figure).
- e. The ramp inclines were attached with glue on both the top and bottom of the ramp inAline 1/4" screw was used on the bottom of the ramp and 1/2/4" screw was used on the top (screwed into the ramp supports). These screws were centered on the ramp and countersunk so that the screws will be covered by the 1/2/4" peline (see Figure 6).
- 7. After attaching the ramp, spray it Flat Eldobeing careful not to overspray the red block painted in Step 5.
- 8. After paintall black paints dry,make measurements and marks for the tape line. Then appely4" white electrical tape to the pre-marked pathway.
 - TIP. Do not immediately apply stretched pe to the course bases it will shrink and pull off the course base! Instead, allow the tape to shrink back to its natural length for a few seconds, prior to applying it to the course base.
- 9. Finally,measure anothark the position of the8 towers using themeasurements from the main course drawing. Note that the towers on the right side of the course match measurements for those on the left side including the possion of the bottom-left tower. The towers are attached the course base with a dab of glue and one 2½" screw.
 - TIP. Drill a pilot hole through the top of the course base at the center of each tower location so that positioning the screw from the bottom sides not a guessing game4 small flat washer was used in the official course build but this is optional.

Figure1 Tapered Bottom Edge of Ramp Incline

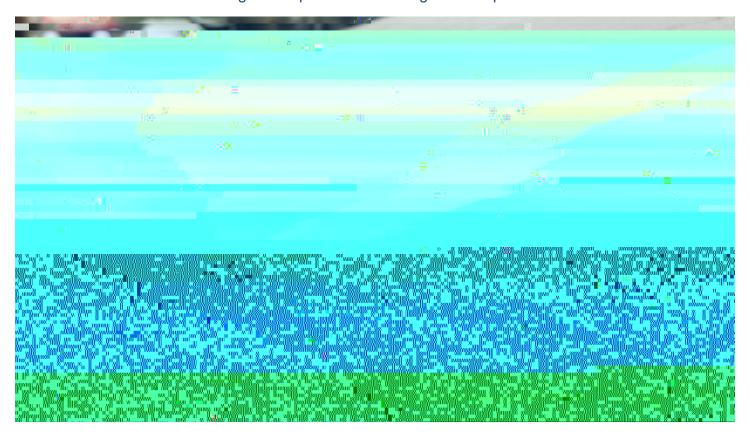


Figure2 Countersunk Screws and Ra84pports Protruding from Ramp Top Platform



Figure3 Top Platform Protruding to Support Incline Platform

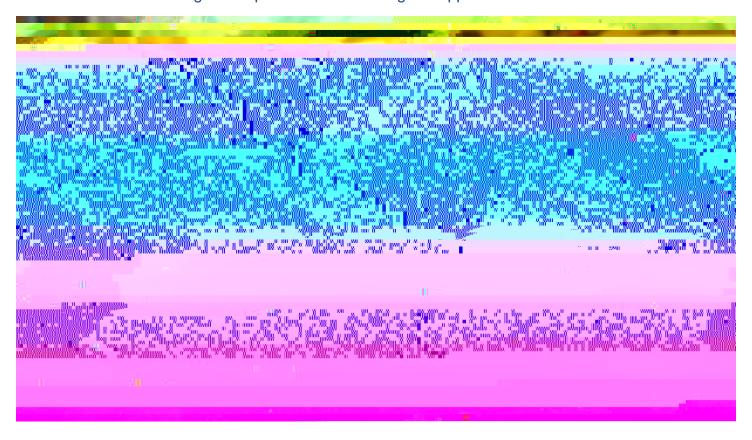


Figure4 Center Ramp Base on Course Base

