

SUPA-TRAC™

INSTALLATION AND USER GUIDE

Supa-Trac

Supa-Trac is heavy duty, portable roadway and event flooring designed to support heavy pedestrian foot traffic, forklifts with pneumatic tires, light trucks, vehicle traffic and static displays.

Supa-Trac panels are shipped in 5 panel preassembled sections. Each pallet has 27 layers of preassembled sections, for a total of 135 panels per pallet.

To prepare for shipping, the full pallet should be securely strapped to prevent any movement of panels on the pallet.

A trailer is loaded 2 strapped pallets high with each row strapped and winched in compliance with DOT Federal Motor Carrier Safety Regulation 49 CFR 393.100 – 393.114. Pallets transported in closed trailers must be secured to ensure the load will not shift in transport.

Preliminary Subsurface Preparation

Before installing Supa-Trac, the load bearing properties of the soil to be covered must be evaluated to determine its suitability for the loads placed on the Supa-Trac panels. The California Bearing Ratio (CBR) rating guidelines are used for this purpose. These guidelines and test method were developed in the 1930's to determine the quality of soil where roads are to be constructed and are used to determine what is required of the roadbed.

CBR testing is a measurement of the pressure required to penetrate a soil sample with a standard plunger of a given area. CBR tests yield a % value that compares the surface being tested, to the load bearing capacity of well-graded crushed California limestone, with a CBR value of 100. Samples can be evaluated on equipment in a lab or portable testing devices are available to perform field-testing at the job site.

The formula for CBR is:

$$\text{CBR} = P/P_s (100)$$

P = measured pressure required to reach penetration depth of sight soil (lb/in sq)

P_s = pressure to reach equal penetration in standard soil (lb/in sq)

The higher the CBR rating, the harder the surface and the greater the support under the Supa-Trac panels. Higher CBR ratings enable higher loads to travel over the temporary roadbed system. The load capacity rating of Supa-Trac assumes a CBR rating of 100.

Static Compression Rating at a CBR = 100

36,000 lbs/sq ft

Before installation the sight must be inspected and any large rocks or debris removed. Any large holes or indentations should be graded or filled in. If possible, CBR testing should be completed or estimates should be made using a sufficient safety factor. Soil conditions may vary over the installation area, so care must be taken to evaluate the total area to be covered. It is the responsibility of the installer to ensure the surface is capable of supporting the loads required and does not have any large holes or irregularities that will affect the structural integrity of the Supa-Trac panels. CBR ratings can be obtained through lab measurements or using portable CBR measuring device, Measurements should be taken over the total area of the installation as soil conditions may vary.

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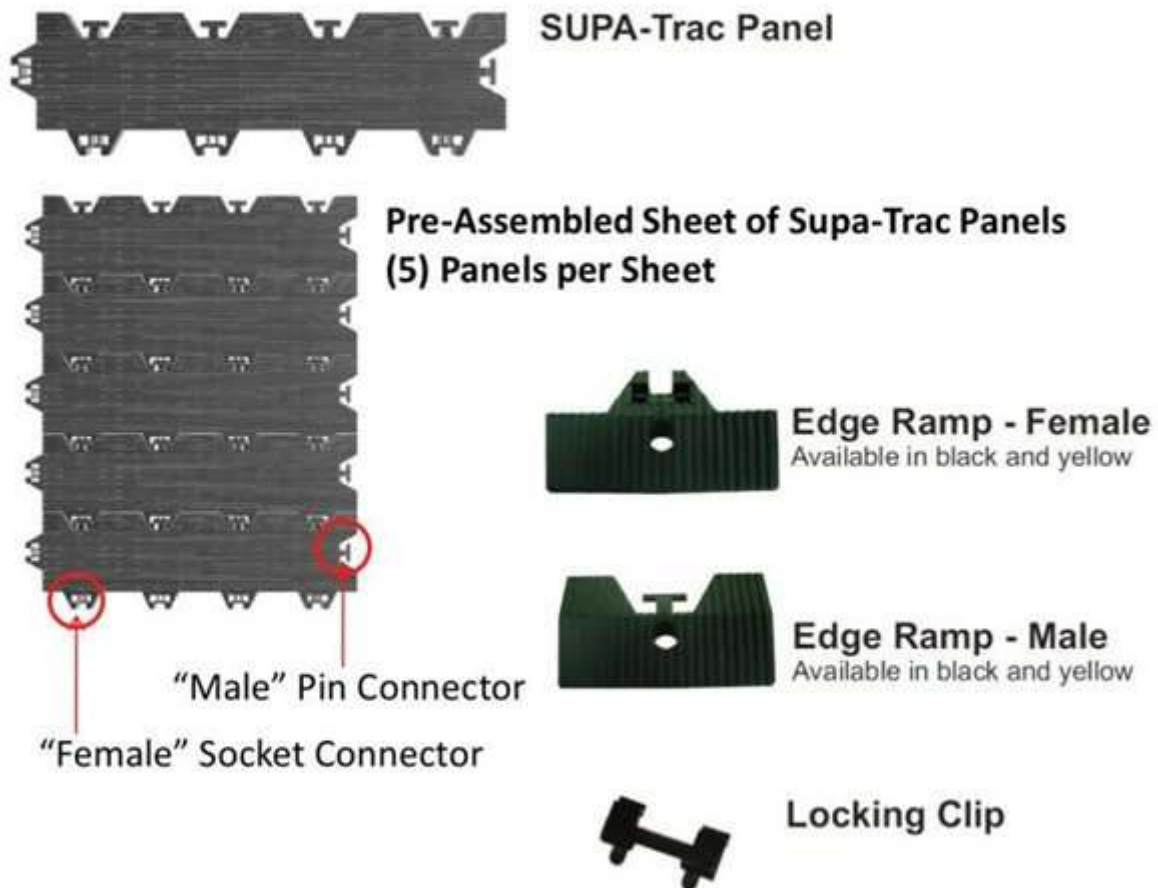
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If the sub-surface is dirt, a geotextile should be used to keep Supa-Trac panels clean and to prevent water from building up at low areas under the installation. The geotextile panel will also increase the CBR of the subsurface if there is any question concerning the suitability of the soil.

Assembly / Recovery Instructions

The following assembly instructions are for Supa-Trac roadway and flooring panels. Supa-Trac Lite panels are similar in surface area and the installation process is identical, with the exception of the use of locking clips. When installing Supa-Trac Lite flooring, ignore all references to locking clips.

TERMINOLOGY



Terminology:

- Supa-Trac panel
- Sheet of Supa-Trac panels
- "Female" Socket Connector, "Male" Pin Connector
- Edge Ramps: Male, Female
- Locking Clip

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TOOLS REQUIRED



Tools Required:

- 5/16" or 3/8" flathead screwdriver (6" or longer works best)
- 16oz. rubber mallet
- 4lb. small sledge hammer – (if deploying Supa-Trac as a HeliPad)



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PRE-ASSEMBLY



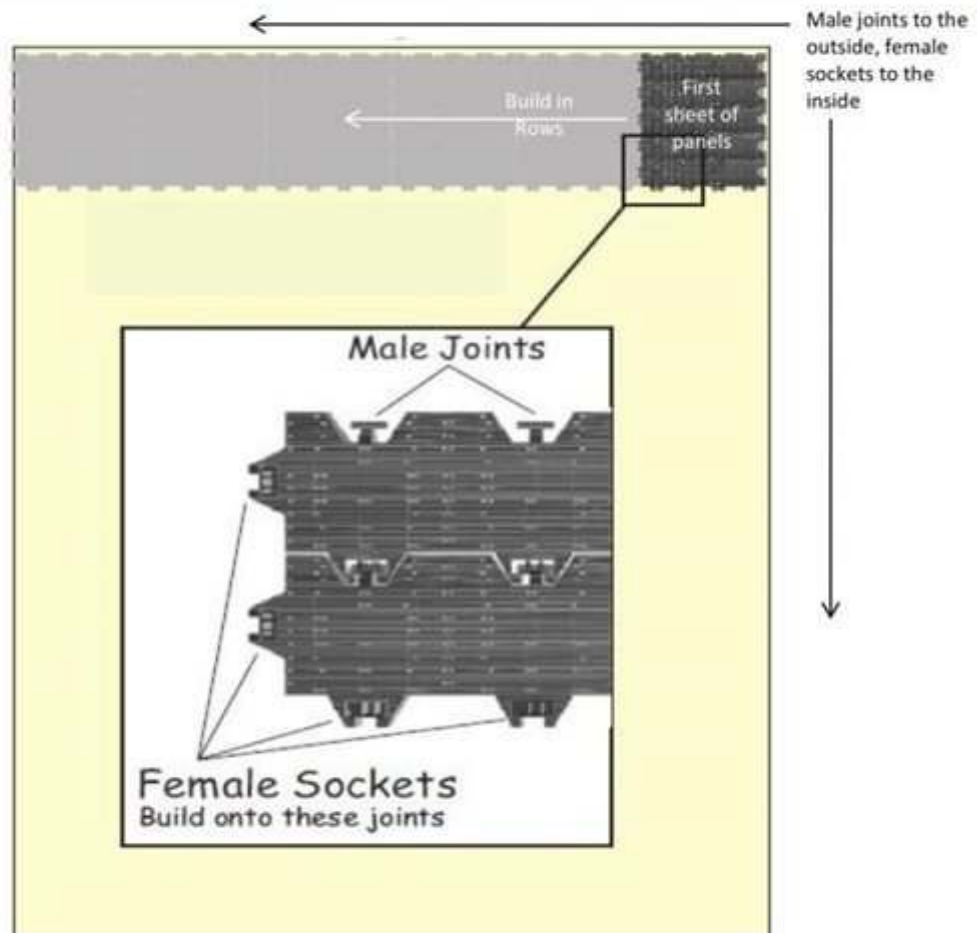
Geotextile is recommended for Supa-Trac HeliPad applications:

- Unroll geotextile to desired length
- Overlap each row at seam
- Add rows as required to achieve desired width

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ASSEMBLY - STEP #1



Step #1: Set Starting Corner:

- Place the first sheet of Supa-Trac panels in the corner that orients the FEMALE sockets toward inside edges, MALES to outside edges

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ASSEMBLY - STEP #1



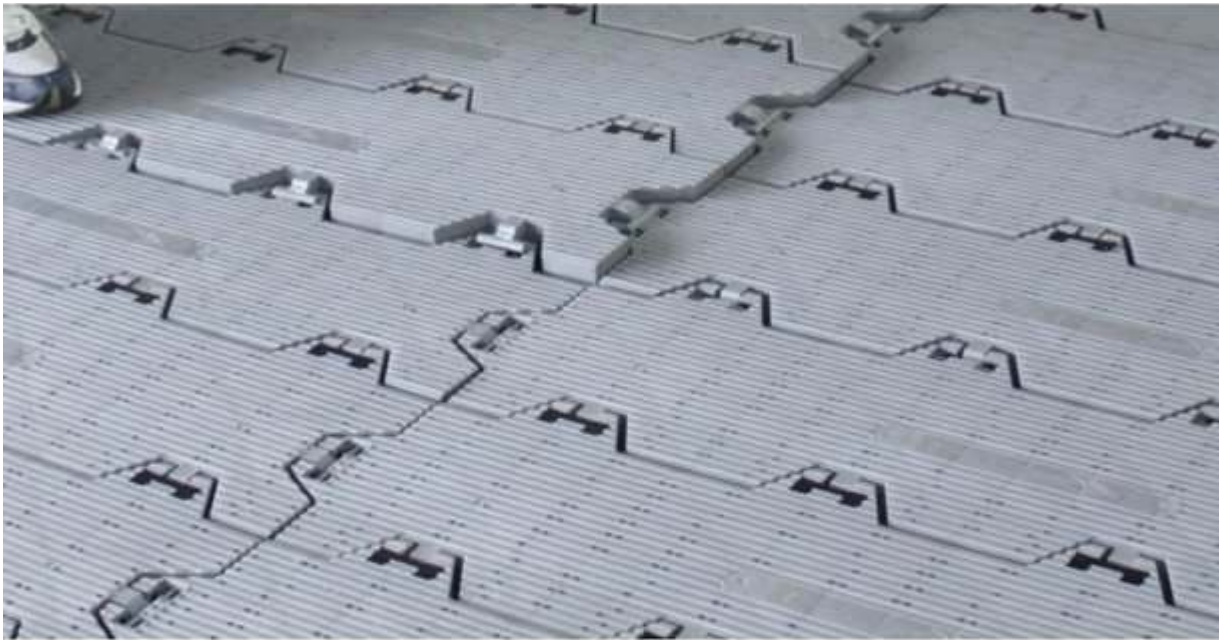
Step #1: Build in Rows

- Place the first sheet of Supa-Trac panels in the corner that orients the FEMALE sockets toward inside edges, MALES to outside edges
- Build in complete rows, building each row in the same direction
- Continue assembling until area is covered

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ASSEMBLY - STEP #2



Step #2: Build in Rows

- Lay sheets with MALE pin on top of FEMALE connector
- Step to snap together
- Complete each row working in the same direction
- Continue assembling until the area is covered

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ASSEMBLY - STEP #2



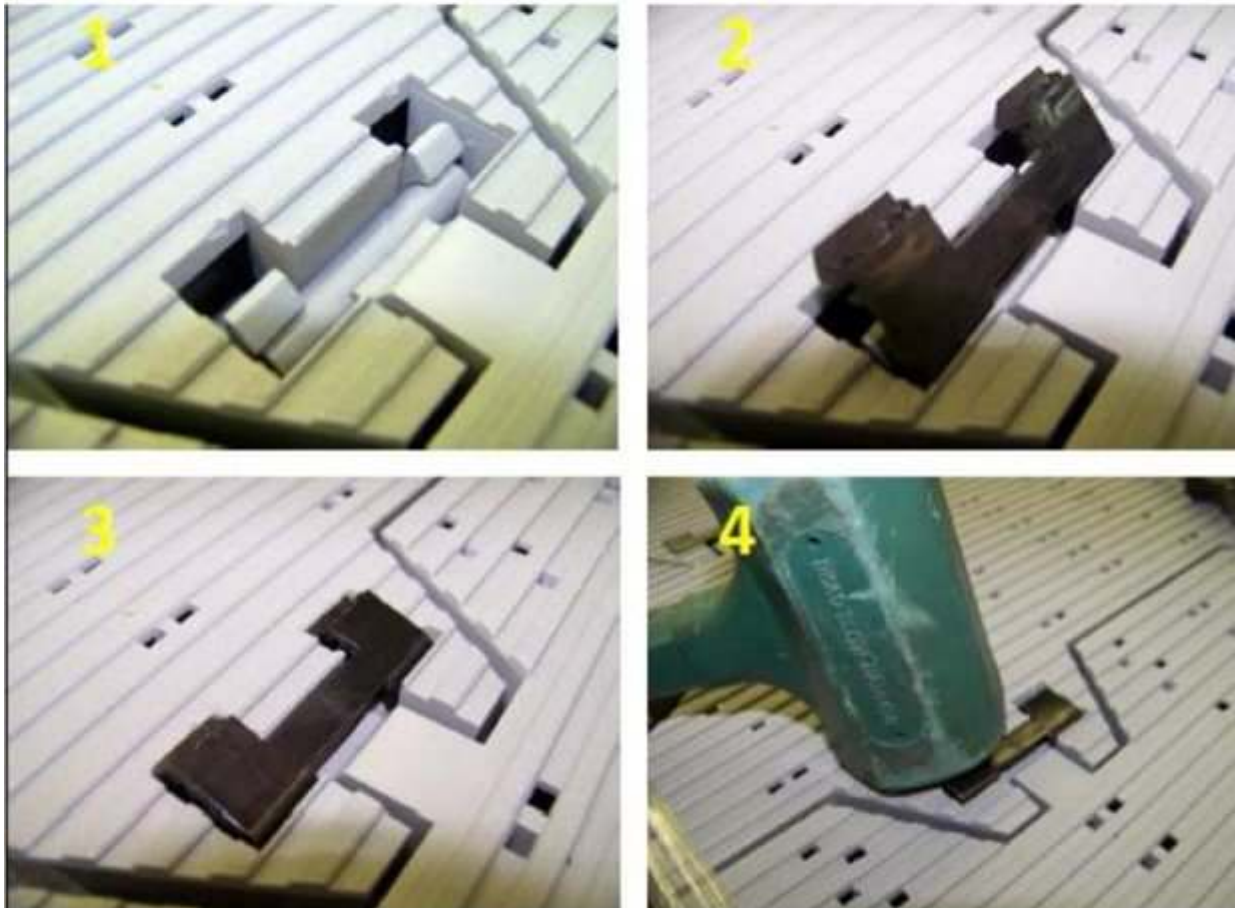
Step #2: Build in Rows

- Lay sheets with MALE pin on top of FEMALE connector
- Step to snap together
- Complete each row working in the same direction
- Continue assembling until the area is covered

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ASSEMBLY - STEP #3



Step #3 Insert Locking Clips:

- Locking clips greatly increase the load capacity of Supa-Trac flooring and are necessary for all HeliPad applications
- FIG 2: Insert locking clips as shown
- FIG 3: Push rear edges down until a positive “snap” is confirmed
- FIG 4: It may be necessary to use a hammer or screwdriver to fully engage clips, especially on soft ground

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ASSEMBLY - STEP #4



Step #4: Attach Ramps:

- Ramps attach to panels in the same manner that panels connect
- Install clips to hold ramp in place. (See step 3)

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ASSEMBLY - STEP #5



Step #5: For HeliPad Applications Stakes are Required:

- Insert stake into the ramp's center hole as shown in picture
- Use small sledge hammer to pound stakes into the ground
- Locate stakes approximately every 3 feet apart

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RECOVERY



Recovery:

#1. Remove Edge Ramps:

- Remove the clips and take off edge ramps

#2: Remove Locking Clips:

- Insert flathead screwdriver behind rear edge of clip, as illustrated
- Twist head of screwdriver, to disengage clip
- Slide head of screwdriver under clip to “pop” clip out of pocket

**** Leave clips in place that connect panels into sheet of (5) panels
Each sheets of (5) panels = (1) layer on pallet**

#3: Disassemble unclipped sheets

#4: Re-stack sheets onto pallets

#5: Use ratchet straps or other source of banding to secure sheets to pallet prior to shipment

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Cleaning

Supa-Trac panels can be cleaned using a high-pressure spray washer. High-pressure steam cleaners should never be used.

Maintenance

If a Supa-Trac panel is damaged, it can be recycled.

Recycling

For information on recycling damaged or worn-out Supa-Trac, contact Groundtrax Systems Ltd by e-mailing info@grountrax.com

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