

Table 2.5 Floor Loading Pressure

MODEL	Total Aerial Platform Weight		Total Aerial Platform Load					
			Wheel		LCP		OUP	
	lb.	kg	lb.	kg	psi	kPa	psf	kPa
SJ 40T (Standard configuration)	15,550	7,053	7,775	3,527	136	937.7	283	13.6
SJ 45T (Standard configuration)	16,350	7,416	8,175	3,708	137	944.6	292	14

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- Standard Configuration = 4WD + Oscillating Axle + 12" x 16.5" (30.5 cm x 41.9 cm) Air Tires
- Total Aerial Platform Weight = Weight + platform capacity
- LCP – Locally Concentrated Pressure – is a measure of how hard the aerial platform tire tread presses on the area in direct contact with the floor. The floor covering (tile, carpet, etc.) must be able to withstand more than the indicated values above.
- OUP – Overall Uniform Pressure – is a measure of the average load the aerial platform imparts on the whole surface projected directly underneath it. The structure of the operating surface (beams, etc.) must be able to withstand more than the indicated values above.
- Foam tires option will add approximately 800 lb. (362.9 kg) to total aerial platform weight and 400 lb. (181.4 kg) to max. wheel load. OUP will increase by 5% and LCP will increase by approx. 68%.
- Welder option will add approximately 350 lb. (158.8 kg) to total aerial platform weight and 175 lb. (79.4 kg) to max. wheel load.

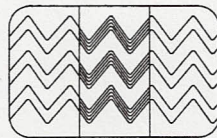
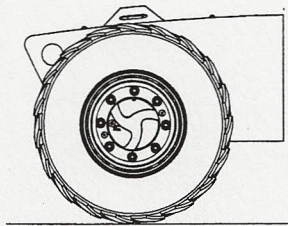
**NOTE:**

The LCP or OUP that an individual surface can withstand varies from structure to structure and is generally determined by the engineer or architect for that particular structure.

**Locally Concentrated Pressure (LCP):**

Foot Print Area = Tread Contact Area

$$LCP = \frac{\text{Aerial Platform Weight} + \text{Capacity}}{\text{Foot Print Area} \times 4 \text{ (Tires)}}$$

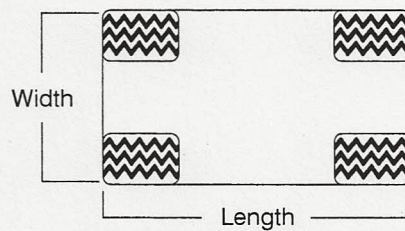
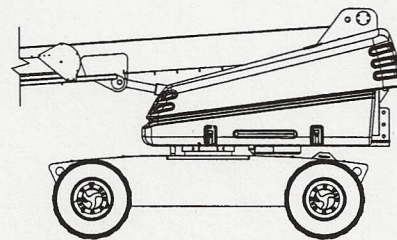


Tread Contact Area

**Overall Uniform Pressure (OUP):**

Base Area = Length x Width

$$OUP = \frac{\text{Aerial Platform Weight} + \text{Capacity}}{\text{Base Area}}$$



**! WARNING**

Intermixing tires of different types or using tires of types other than those originally supplied with this equipment can adversely affect stability. Therefore, replace tires only with the exact original Skyjack-approved type. Failure to operate with matched approved tires in good condition may result in death or serious injury.