

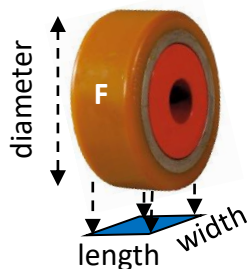
Skate:

EP5/B15

WEIGHT DISTRIBUTION ON FLOOR

For machine skate models EP5 (JLA-e 5/12G) and B15 (JFB 15G)

Wheel Footprint



Wheel size

- ▶ length: 2.3" | 118mm
- F ▶ diameter: 5.5" | 140mm

Wheel contact surface with floor

- ▶ width: 1.30" | 33mm
- ▶ length: 2.32" | 118mm

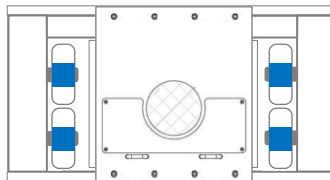
Footprint per wheel:

- ▶ **3.02 in²** | 38.9cm²

Skate Footprint

Skate Model

EP5



Footprint per skate: ▶ **12.08 in²**

Skate Model

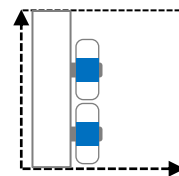
B15



Footprint per skate: ▶ **36.24 in²**

Footprint per ft²

Footprint within 1 ft² area with the highest pressure



1 ft²
area

Footprint per ft²:

- ▶ **6.04 in²**

Variations in Footprint:

With increasing weight, the elastic JUWATHAN wheel material spreads out and increases the contact area with the floor. The enlarged footprint divides the weight over a larger area so that the pressure onto the floor is drastically reduced. The footprint above is measured at maximum load capacity. Ⓢ The size of the actual footprint and in turn the actual psi may vary based on actual load weight, temperature, load bearing duration, etc.. Therefore, the data provided is an estimate to be used as a general guideline only.

Maximum pressure per in² for concerns about indenting soft floor

$$\text{Pressure (psi)} = \frac{\text{Load weight (lbs) per skate}}{\text{Footprint (in}^2\text{) per skate}}$$

Max pressure per in² at maximum load capacity ▶ **828 psi**

Pressure per ft² for concerns about breaking through supported floor

$$\text{Pressure (psf)} = \frac{\text{Load weight (lbs) per skate} \times \text{Footprint (in}^2\text{) per ft}^2}{\text{Footprint (in}^2\text{) per skate}}$$

Pressure per one ft² at maximum capacity ▶ **4,975 psf**