



Pressure Distribution of the ParaMotion

Dear User,

The pressure distribution of the ParaMotion on the ground results of the following masses: The weight of the ParaMotion and a passenger is multiplied with the gravitational force and divided by the bearing surface of the tyre on the underground.

The pressure results the pressure per square centimeter that the ParaMotion puts on the ground.

190 kg weight of ParaMotion + 85 kg weight of a passenger = 275 kg total weight on
297.5 cm² bearing surface of the tyre

$275 \text{ kg} \times 9.81 \text{ Nm} = 2697,75 \text{ P}$

2697,75 P

----- = 9,07 N/cm²

297,5 cm²

The pressure distribution of an average human amounts to between 5 - 15 N/cm² in the toe area and under the heel 11 - 40 N/cm².

(Source: Kinematik und Kinetik Dr. B. Fromm / Dr. M. Schiltewolf)

Thus it is proven that the ParaMotion clearly puts less pressure on any ground, as an average pedestrian. This statement proofs in calculations what was found theoretically in the development phase and many test rounds on different golf courses.

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