

# LATERAL STIFFNESS

---

## Wide Flange Distance

All Scope Cycling wheels are built as a system. To create a very high lateral stiffness while keeping an equal spoke tension, we optimized the flange distance of our hubs. A wide flange distance is essential, since nearly 60 percent of the lateral stiffness are determined by the flange distance.

Other important aspects are the amount of spokes, their thickness, and the stiffness of the rim. While the combination of amount and thickness of the spokes determines around 25

percent of a wheel's overall lateral stiffness, the stiffness of the rim contributes another 15 percent.

The uniform lateral stiffness of our wheels is between 47-52 Nm/mm. We use our own test device for the measurements and carry them out by applying 25 kilogram load on a wheel by pulling its rim outwards. Thereby, the measurement process is the same for both front and rear wheel.

Scope wheels are handbuilt with:



# LATERAL STIFFNESS

## LATERAL STIFFNESS BENCHMARK

REAR WHEEL

