



## Why use Seat Tube Sleeves?

Adjustability is key to any bike. We use metal Seat Tube Sleeves in our Seat Tubes to allow for repeated and safe adjustments to the seat tube.

A metal Seat Tube Sleeve with an internal diameter of 27.4mm, will ensure a tight fit with a standard 27.2mm seat post. In our testing, we've found steel offers the best combination of wear resistance, bond-ability and interfaces with standard bicycle components like Seat Posts and Seat Post Clamps.

The Seat Post transmits a vertical downward force from the Saddle into the Seat Tube Sleeve. To support the repeated bumping of the rider on the Saddle, it is critical to bond the Seat Tube Sleeve as strongly as possible to the Seat Tube.

The outer diameter of the Seat Tube Sleeve is 29mm, which slides into the 29.5mm bored end of the bamboo Seat Tube. To fill the gap between the outside of Seat Tube Sleeve and the inside of the bamboo Seat Tube we use JB Kwik, a non-toxic epoxy filler. JB Kwik adheres well to both bamboo and the steel seat tube (we etch the surface of the steel to provide more surface area.) Supplementing this bonding, we leave about 1cm of etched Seat Tube Sleeve above the top of the bamboo Seat Tube. We will wrap the carbon roving tight around this 1cm band, further supporting the Seat Tube.

These two levels of support have proven extremely durable.

