



IS 6218: 2008 Bicycle – Mudguards

Mudguards are essential components of bicycles, designed to shield riders from mud, water, and debris kicked up by the tires. Positioned over the **front and rear wheels**, mudguards protect both the **cyclist** and their clothing from dirt and moisture, especially in wet or muddy conditions.

The Indian Standard **IS 6218:2008**, titled "**Bicycle – Mudguards – Specification**," provides detailed requirements for bicycle front and rear mudguards, suited for popular bicycle sizes. The standard specifies the material and dimensions for mudguards: they must be made from steel strips with a minimum thickness of 0.45 mm, a width of at least 50 mm, and a depth of 18 mm. Mudguards must be free from defects like rust and scale, thoroughly cleaned, and coated before receiving a glossy finish. They must also be visually and structurally sound, with a finish free of wrinkles, scratches, and blisters.

The durability of mudguards is tested through a steel ball drop test and immersion in a salt solution to assess impact resistance and corrosion prevention. Warping limits are provided for both front and rear mudguards. The standard mandates that mudguards display the manufacturer's mark and manufacturing year, with an option to include the BIS Standard Mark for certified products.