SUMMARY OF IS 1019 'SPECIFICATION FOR RIM LATCHES'

Rim latches are surface-mounted **locking devices**, commonly used for **securing doors** with a mechanism that engages a strike plate. The latch should feature a secure mechanism with a bolt that engages properly with the strike plate. The latch must operate smoothly without jamming, and ideally should include a self-latching function that engages automatically when the door is closed. If lockable, the rim latch should have a key-operated mechanism that is tamper-resistant. It must resist forceful tampering and be durable for long-term use.

Handing of rim latches are determined by the handing of the door on which it is fitted, the latch is termed as 'left hand' if it is fitted on 'left hand door' and 'right hand' if it is fitted on 'right hand door'.

IS 1019 'Specification for **rim latches**' lays down the requirements regarding material, dimensions, manufacture and finish of rim latches for general use. The standard covers rim latches of two types, **Type 1 rim latches** which open when the handle is turned in one direction only and **Type 2** rim latches which open when the handle is turned in any direction. Type 1 rim latches shall be either '**left hand**' or '**right hand**'.

IS 1019 specifies that the rim latches shall be of **mild steel, brass, aluminium alloy or zinc base alloy** to ensure long-term performance and resistance to rust or wear. It lays down material and quality requirements for various component parts of rim latches like **body, back plate, latch bolt, follower, spring, locking pin, spindle, knobs, disc,** and **striking box** to ensure **long term smooth operations.**

The standard sizes of rim latches covered in the standard are 75, 100, 125 and 150 mm, which is denoted by the length of the face across the body in millimetres. Rim latches of other sizes may also be supplied by mutual agreement between the purchaser and the supplier but the provisions laid down in this standard shall be generally followed. IS 1019 provides precise leading dimensions for rim latches, ensuring compatibility with standard door and frame sizes. The tolerances specified help ensure a **secure fit** and **reliable operation**.

The standard provides freedom to the manufacturer to make rim latches of any shape to suit their design. It also outlines that the finally assembled rim latches shall be capable of satisfying the performance requirements and function smoothly. When the knob of the latch is turned, the latch bolt shall draw smoothly into the body and shall be flush with the face of the body. The standard also covers requirements for packing, sampling and inspection and marking.

By adhering to IS 1019, rim latches ensure security, durability, and consistent performance.