

Indian Standard IS 6315:1992 - Your Guide to Safe and durable Floor springs

IS 6315:1992 - Floor springs (hydraulically regulated) for heavy doors is an Indian Standard specification for the materials, construction and performance requirements of floor springs used for automatic closing of doors. A floor spring is a mechanical device installed in the floor to control the opening and closing action of a door. It typically incorporates a spring mechanism and damping system, ensuring smooth, **automatic door closing**. Floor springs are most commonly used for heavy-duty doors in commercial, residential, and institutional buildings.

The floor springs should be made from the materials which ensure durability and resistance to wear. Floor springs must be designed to ensure **smooth door operation, consistent door closing force and adjustable speed**. They must be capable of supporting the door's weight without malfunction or excessive wear. The design should include a mechanism with a smooth hydraulic damping system to control the speed and force of door movement.

This standard specifies the materials, construction, performance, finish, marking and labelling requirements for the Floor springs (hydraulically regulated) for heavy doors.

The standard emphasises on safety, durability and functionality of the Floor springs (hydraulically regulated) for heavy doors. The standard is essential for manufacturers, architects, and engineers involved in the design and installation of automatic door systems.

In summary, IS 6315:1992 ensures that floor springs meet the essential performance criteria, including durability, safety and smooth operation. By ensuring that these products meet specific criteria, the standard helps maintain the efficiency and longevity of floor springs in both residential and commercial buildings.