



IS 774 : 2021 - CERAMIC FLUSHING CISTERNS FOR WATER CLOSETS AND URINAL

Ceramic flushing cisterns, often made from vitreous china, are water storage tanks used in toilets and urinals. They come in various designs, including wall-mounted and floor-standing models, and offer features like single or dual flush mechanisms for efficient water usage.

Consumers anticipate ceramic flushing cisterns to be durable, hygienic, water-efficient, and aesthetically pleasing. They should be resistant to cracks, chips, and stains, and offer options for water-saving features like dual-flush mechanisms.

IS 774 outlines the specifications for ceramic (vitreous china) flushing cisterns used in water closets and urinals focusing on materials, construction, and testing.

Materials must meet durability and corrosion-resistance requirements, including **vitreous china for cisterns** and **polyethylene or PVC for flush pipes**. Cistern construction requires a thickness of at least 6 mm, ensuring they are **mosquito-proof** and **leak-proof** with secure, air-tight joints.

The cistern design includes an easily operable **dual-flush mechanism**, supporting both full and reduced flush options (6/3, 4.8/2.8, or 4/2 liters) **to promote water efficiency**. Each unit must feature a removable, securely fitting cover, along with a minimum 20 mm overflow pipe with a mosquito-proof design. Performance tests ensure adequate flushing with **specified discharge rates** and capacities, while cisterns **must withstand 30,000 operational cycles without defect**.

The standard also mandates **water efficiency labelling** as per IS 17650 (Part 1), marking for manufacturer identification, and user instructions.

In summary, IS 774 guarantees the reliability, longevity, and optimal performance of flushing cisterns, ensuring consumer satisfaction.