

Technical Standards ABNT



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Technical standards are formulated by the **Brazilian Association of Technical Standards (ABNT)** and according to Oliveira (2005) these will provide us with the guidelines and rules to reach the minimum expected results, with a view to achieving a better ordering of the report. We highlight:

NBR 5674 - Building Maintenance-Procedure *

The standard designates the requirements for maintenance management, which aims to prevent the initial characteristics of the building, avoiding the loss of performance that the building suffers over the years due to lack of maintenance. As a result, the standard establishes that:

- a) Maintenance requirements, such as organization of the inspection, content of the inspection report, information about the maintenance program;
- b) Requirements for planning annual activities;
- c) Requirements for controlling the maintenance process;
- d) Documentation that must be prepared and archived;
- e) Responsibilities of those involved in the building maintenance process

NBR 13752 - Engineering expertise in civil construction *

NBR 13752 aims to define the concepts, criteria and procedures related to engineering expertise in civil construction, also showing the guidelines for this process. Its main actions are:

- a) Classify the inspected object (property, facilities, equipment, etc.) regarding its nature;
- b) Establish terminologies, conventions and notations;
- c) Define methodology to be used;
- d) Establish criteria to be used;
- e) Prescribe guidelines for presenting reports and technical procedures.

NBR 16280 - Renovation Management System

NBR 16280 establishes requirements for process control, project, execution and safety management systems, exclusively for building renovations. The established measures aim to:

- a) Prevent performance losses resulting from intervention actions, of any and all elements of the building;
- b) Plan, design and analyze the consequences of the reforms to be carried out;
- c) Describe characteristics of the execution of renovation works;
- d) Propose security measures for the building, surroundings and users;
- e) Assist in recording documents relating to the work, both before renovation and after the work;
- f) Propose technical supervision actions for processes and works.

Several guidelines are established to be followed in the management and carrying out of renovations and presented, in annex, a guiding model for carrying out the works and a work management flow model for building renovations that can be adopted for better construction practice of reform.

NBR 15575 - Performance Standard

This standard aims to meet user requirements in relation to the behavior of building systems and elements, aiming to guarantee safety and comfort for users, relating all of this to sustainability.

This standard is divided into 6 parts, each building system is represented in these parts, establishing criteria so that minimum performance can be achieved.

Assessment methods are determined to verify this minimum performance that will be acquired.

- a) Part 1: General requirements; establishes requirements and criteria aimed at meeting minimum performance in relation to the work as an integrated whole and

some specific systems, such as health and air quality, drinking water system and water rationalization and reuse, soil contamination and others.

- b) Part 2: Requirements for structural systems;
- c) Part 3: Requirements for flooring systems;
- d) Part 4: Requirements for internal and external vertical sealing systems;
- e) Part 5: Requirements for roofing systems;
- f) Part 6: Requirements for hydro sanitary systems.

According to the standard, it does not apply to works already completed; works that were in progress when it came into force; renovation or retrofit works on temporary buildings.

NBR 14.037 - Guidelines for preparing use, operation and maintenance manuals for buildings — Requirements for preparing and presenting content,

NBR 16747- Building Inspection: Guidelines, concepts, terminology and procedures

It should also be noted that **IBAPE** added important additions to STANDARDS ABNT 5674 and ABNT 13752 AND **RECOMMENDED PRACTICES FOR BUILDING INSPECTION, CAUTIONARY INSPECTION AND ENGINEERING EXPERTISE USING UAVS _ IBAPE-MG 001**