

Particular Criteria Governing Designated Testing Laboratories for Mechanical Commodities

[Chronicle of Promulgation and Amendments]

Adopted and promulgated by the Bureau of Standards, Metrology and Inspection, Ministry of Economic Affairs on 20 May 2002.

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1. In order to recognize and manage designated testing laboratories that conduct mechanical commodities tests, these Criteria are established to ensure the competence of designated testing laboratories.
2. These Criteria apply to designated testing laboratories that conduct tests of mechanical commodities subject to inspection.
3. The assessment, re-assessment for extension or surveillance of designated testing laboratories shall be performed in accordance with the requirements of CNS 17025 or ISO/IEC 17025. Where these Criteria set out special requirements, the assessment shall also be performed in accordance with these Criteria.
4. A designated testing laboratory shall designate a senior technical staff or personnel responsible for ensuring technical effectiveness or higher to act as the report signatory.

The report signatory shall have the right and responsibility for supervision of the test reports that he approves and other related operations.
5. A designated testing laboratory shall retain the records of internal audits and management reviews that have been conducted when making the application.
6. A designated testing laboratory shall have appropriate protection facilities to ensure the safety of the testing personnel.
7. A designated testing laboratory shall have the required testing equipment to conduct tests according to the inspection standards or technical criteria for the applicable

testing category. This clause shall not be applicable to testing equipment that a written approval from the Bureau of Standards, Metrology and Inspection is obtained to be exempted from this requirement.

A designated testing laboratory for fire doors of buildings shall possess the following equipment:

(1) The temperature recording equipment for testing furnace thermocouples and non-mobile unexposed face thermocouples shall be capable of recording data at least 2 second intervals.

(2) The laboratory shall also possess a set of temperature recording equipment whose recording file shall be read-only to record at least a point of temperature located near the geometric center of the temperature measurement surface in testing furnace, and the temperature measurement point should be same as the temperature measurement point of testing furnace in test report.

8. Test records shall follow the inspection standards or technical criteria against which the test is performed, and shall be retained for at least 8 years.

The original test records shall be recorded in a manner that the content is not easy to be altered. Any changes or modifications made to the test records shall be conformed through an appropriate procedure.

Test records of fire doors of buildings shall include the videos of the entire fire resistance test process and the videos or photos of the detailed examination of the test specimen process.

9. A test report shall completely reflect the requirements of the inspection standards or technical criteria against which the test is performed. It shall also include the technical documents that could identify the appearance, type, characteristics or specifications of the product.

10. A designated testing laboratory shall be capable of performing the complete testing work by itself. Without a written approval by the BSMI, it may not perform testing at other sites or subcontract the whole or a part of the testing work to other testing laboratories.