



Z320-11

Building commissioning

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Building commissioning

Building envelope — the overall physical structure that provides separation between conditioned spaces and the outdoor environment, or any indoor environment substantially different from the outdoor one.

Commissioning (commissioning process) — a systematic verification, documentation, and training process applied to all activities during the design, construction, static verification, start-up, and functional performance testing of equipment and systems in a facility to ensure that the facility operates in conformity with the owner's project requirements and the basis of design in accordance with the contract documents.

Note: Commissioning is an integral part of the design and construction process, and is intended to be undertaken throughout the life of a facility.

ATENAUDE

5.1.2.4 Functional performance testing

The objective of functional performance testing is to ensure all building assemblies and components perform in accordance with the design intent. Tests should be selected during the design phase and be appropriate to the type of construction, climate, and operational requirements of the building, taking into consideration the anticipated service life of the building.

Functional performance testing on building envelope assemblies and components shall be carried out in accordance with Clause 5.1.1.6 and shall include testing of the following, as applicable:

- (a) air leakage;
- (b) rain screen pressure equalization; (c) water penetration; (d) moisture content;

- (e) thermal performance;
- (f) condensation resistance;

- (i) condensation resistance,
 (g) acoustic performance;
 (h) solar optical performance;
 (i) structural performance, including, but not limited to
 (i) envelope deflection;

 - (ii) wind uplift testing; and
 - (iii) wind load;

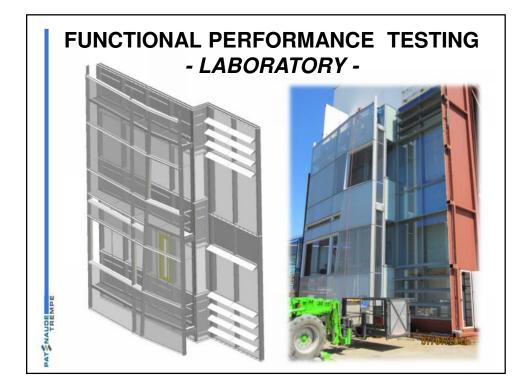
Note: Structural performance for the purposes of this Standard refers only to faces on a building as a result of wind or normal building movement.

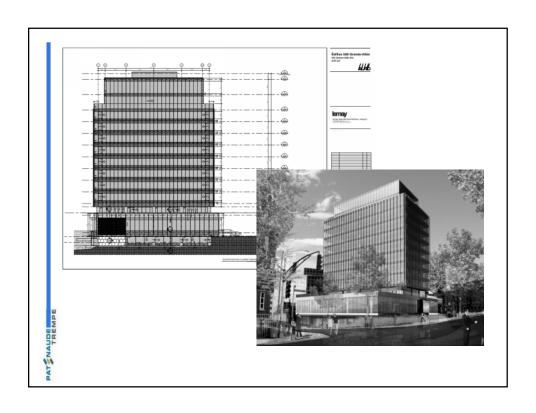
security performance, including, but not limited to

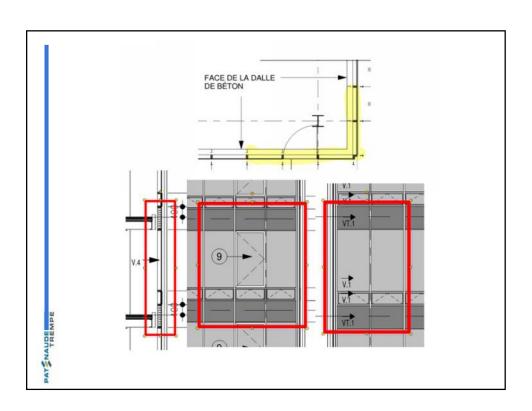
- - (i) forced entry;
 - (ii) impact; and
- (iii) blast;
 (k) vibration testing;
 (l) membrane adhesion performance; and

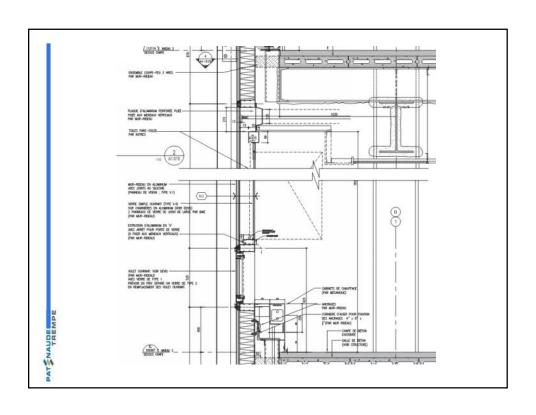
(m) durability.

See Annex B for a list of applicable test methods and protocols.

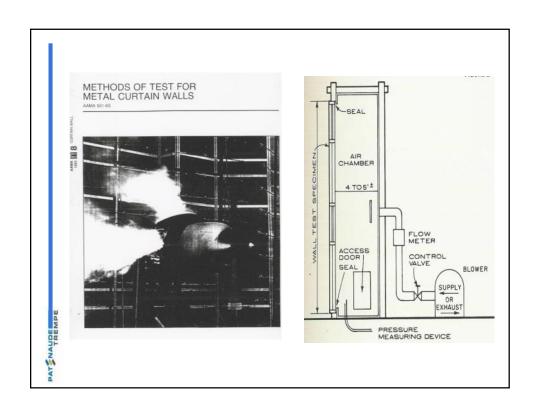














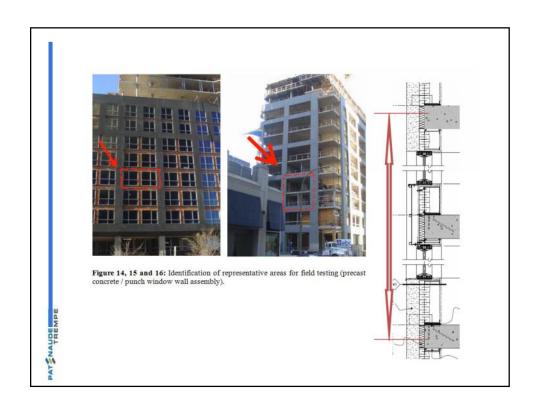


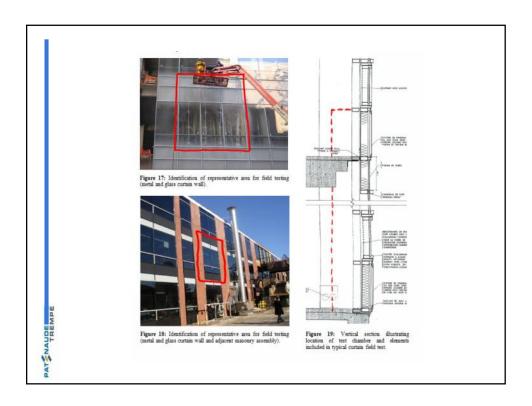


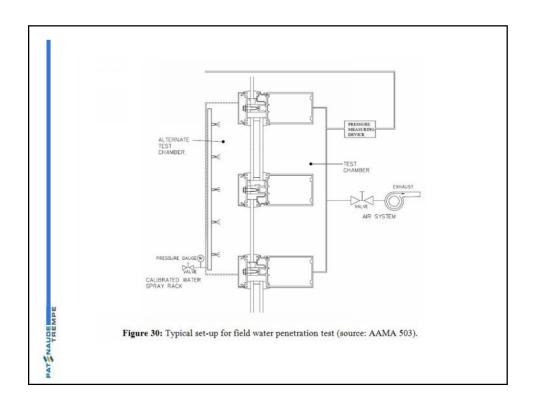


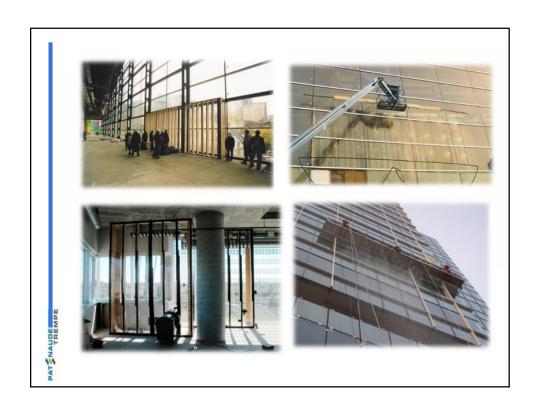


FUNTIONAL PERFORMANCE TESTING - JOB SITE -



















WHOLE BUILDING AIR LEAKAGE TESTING



