

SANITARY APPLIANCES**Technical document 017-18**

Complementary specifications applicable to
shower enclosures

Technical document 017-18 rev. 00

21/12/2018

CSTB (Centre Scientifique et Technique du Bâtiment), a public establishment supporting innovation in construction, has four key activities—research, expertise, assessment and dissemination of knowledge—organised to meet the challenges of the ecological and energy transition in the construction sector. Its field of expertise includes construction materials, buildings and their integration into districts and towns.

With over 900 employees, its subsidiaries and networks of national, European and international partners, the CSTB group works for all the stakeholders in the construction sector to advance building quality and safety.

Any reproduction or representation, in whole or in part, by whatever means, of the pages published in this technical document and executed without the authorisation of CSTB is illegal and constitutes a counterfeit. The only authorised exceptions are 1) reproductions strictly reserved for the use of the typist and not intended for any collective use or 2) analyses and short quotations required due to the scientific or informational nature of the work in which they appear (article L.122-5 of the Intellectual Property Code). This document has been drawn up under the initiative and direction of CSTB, which has gathered the opinions of all interested parties

© CSTB

MODIFICATION HISTORY

Revision no.	Application date	Modifications
00	21/12/2018	Update to the document layout and reference

Contents

1	MATERIALS - GLAZING	5
1.1	Unframed glazing (one vertical visible side not supported in an aluminium section)	5
1.1.1	Glass	5
1.1.2	Synthetic material	5
1.2	Framed glazing.....	5
1.2.1	Glass	5
1.2.2	Synthetic material	5
1.3	Measuring glazing thickness.....	5
2	MOVING PARTS.....	6
3	EVALUATION OF STABILITY	6
4	ENDURANCE	6
5	WATERTIGHTNESS	6
6	CLEANING.....	6
7	INSTALLATION INSTRUCTIONS.....	6
8	USER'S INSTRUCTIONS.....	6

Shower enclosures shall comply with Standard NF EN 14428 and shall satisfy the following specifications.

1 MATERIALS - GLAZING

Thickness specifications are given in the following sections. For decorative glazing, minimum values given correspond to the bottom of the decor. These specifications are nominal values. Tolerances indicated in Standard NF EN 12150-1 shall be applied to them.

These thicknesses are measured in accordance with the method described below (§1.3). Each individual measurement shall exceed the specification.

1.1 Unframed glazing (one vertical visible side not supported in an aluminium section)

1.1.1 Glass

The thickness of safety glass shall be at least 4 mm for widths less than or equal to 40 cm, and 5 mm for widths greater than 40 cm.

1.1.2 Synthetic material

The thickness of the sheets shall be at least 4.75 mm.

1.2 Framed glazing

1.2.1 Glass

The glass thickness shall be at least 3 mm.

1.2.2 Synthetic material

The thickness of the sheets shall be at least 2.8 mm.

1.3 Measuring glazing thickness

Four measurements shall be made, each at the thinnest location (bottom of the decor if there is one) and closest to the middle of each side, at an edge distance of 20 mm.

Measurements are taken using a palmer gauge (feeler surface diameter 6.35 ± 0.2 mm) with a resolution of 0.01 mm.

For an enclosure composed of several panels, the four measurements shall be made on each panel.

2 MOVING PARTS

The design of shower enclosures shall be such that it does not include any shear zones or zones that could trap the user. The assessment will be made by an expert.

3 EVALUATION OF STABILITY

The impact strength is evaluated by the lack of any crack or disengagement of the glass outside the sections. The separation of an entire panel will be accepted if the following conditions are satisfied:

- the panel is undamaged;
- the panel can be put back into place without any tools;
- the panel does not fall entirely to the floor;
- the separated panel does not have any dangerous parts for the user or parts that could cause the user to be stuck in the shower.

4 ENDURANCE

The endurance test described in §5.5 in Standard NF EN 14428 is completed by subjecting the door to 30,000 open/close cycles.

5 WATERTIGHTNESS

The test shall be carried out in accordance with §5.7 in Standard NF EN 14428 before and after the endurance test.

6 CLEANING

Sections shall not include any water retention except at the bottom of the gutter. The assessment will be made by an expert.

7 INSTALLATION INSTRUCTIONS

The installation instructions shall comply with the requirements in Standard D60-020.

8 USER'S INSTRUCTIONS

The user's instructions shall include the manufacturer or the supplier's after sales service.