

ICS 91.120.30

CCS Q 17



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 328.10-2007

**Test methods for building sheets for waterproofing -- Part 10:
Bitumen, plastic and rubber sheets for waterproofing -- Water
tightness**

(English Translation)

Issued on: March 26, 2007

Implemented on: October 1, 2007

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China**

Table of Contents

Foreword...	3
1 Scope...	6
2 Normative references...	6
3 Terms and definitions...	6
4.Principles...	7
5.Instrument and equipment...	7
6.Sampling...	10
7.Test-piece preparation...	10
8.Procedures...	11
9.Results expression and accuracy...	12
10.Test report...	12

Foreword

GB/T 328 "Test Methods for Building Sheets for Waterproofing" is divided into the following

27 parts.

- Part 1.Bitumen Plastic and Rubber Sheets for Waterproofing - Rules for Sampling;
- Part 2.Bitumen Sheets for Waterproofing - Visible Defects;
- Part 3.Plastic and Rubber Sheets for Waterproofing - Visible Defects;
- Part 4.Bitumen Sheets for Waterproofing - Thickness and Mass per Unit Area;
- Part 5.Plastic and Rubber Sheets for Waterproofing - Thickness and Mass per Unit Area;
- Part 6.Bitumen Sheets for Waterproofing - Length, Width and Straightness;
- Part 7.Plastic and Rubber Sheets for Waterproofing - Length, Width, Straightness and Flatness;
- Part 8.Bitumen Sheets for Waterproofing - Tensile Properties;
- Part 9.Plastic and Rubber Sheets for Waterproofing - Tensile Properties;
- Part 10.Bitumen Plastic and Rubber Sheets for Waterproofing - Watertightness;

- Part 11.Bitumen Sheets for Waterproofing - Flow Resistance at Elevated Temperature;
- Part 12.Bitumen Sheets for Waterproofing - Dimensional stability;
- Part 13.Plastic and Rubber Sheets for Waterproofing - Dimensional Stability;
- Part 14.Bitumen Sheets for Waterproofing - Flexibility at low temperature;
- Part 15.Plastic and Rubber Sheets for Waterproofing - Foldability at Low Temperature;
- Part 16.Plastic and Rubber Sheets for Waterproofing - Exposure to Liquid Chemicals Including Water;
- Part 17.Bitumen Sheets for Waterproofing - Adhesion of Granules;
- Part 18.Bitumen Sheets for Waterproofing - Resistance to Tearing (Nail Shank);
- Part 19.Plastic and Rubber Sheets for Waterproofing - Resistance to Tearing;
- Part 20.Bitumen Sheets for Waterproofing - Resistance to Peeling of Joints;
- Part 21.Plastic and Rubber Sheets for Waterproofing - Resistance to Peeling of Joints;
- Part 22.Bitumen Sheets for Waterproofing - Resistance to Shearing of Joints;
- Part 23.Plastic and Rubber Sheets for Waterproofing - Resistance to shearing of Joints;
- Part 24.Bitumen Plastic and Rubber Sheets for Waterproofing - Resistance to Impact;
- Part 25.Bitumen Plastic and Rubber Sheets for Waterproofing - Resistance to Static Loading;
- Part 26.Bitumen Sheets for Waterproofing - Dissoluble Composite of Membrane (Impregnated and Coated Asphalt Amount);
- Part 27.Bitumen Plastic and Rubber Sheets for Waterproofing - Water Absorption.

This Part is Part 10 of GB/T 328.

This Part modifies and adopts EN 1928.2000 Flexible Waterproofing Sheets - Roofing Bitumen, Plastic and Rubber Sheets for Waterproofing - Watertightness Test (English edition).

The number of chapters and articles in this Part is consistent with the number of chapters and articles in EN 1928.2000. The figure 5 is added.

For the convenience to use, the main differences between this Part and EN 1928.2000 are as follows.

- a) Change "This European Standard" into "This Part";
- b) Change "EN 13416" into "GB/T 328.1";
- c) Delete the foreword and reference information of EN 1928.2000; rewrite the foreword of this Part;
- d) Add a kind of seven-hole disc plug in method B (Figure 5);
- e) Delete the note of article 9.2.

This Part replaces GB/T 328.3-1989 Test methods for asphalt waterproof roll roofing -- Water impermeability of asphalt.

Test methods for building sheets for waterproofing -

Part 10. Bitumen, plastic and rubber sheets for waterproofing

- Watertightness

1 Scope

This Part of GB/T 328 is applicable for testing the water tightness of bitumen and rubber sheets for waterproofing as per the regulated procedures, that is, the products' water resistance or the bearable water pressure of the limited surface.

This method can also be used in other waterproof materials.

2 Normative references

The articles contained in the following documents have become part of this document when they are quoted herein. For the dated documents so quoted, all subsequent modifications (including all corrections) or revisions made thereafter do not apply to this standard.

However, the parties who reach an agreement according to this Standard are encouraged to study whether the latest versions of these documents may be used. For the undated documents so quoted, the latest versions (including all modification sheets) apply to this document.

GB/T 328.1 Test methods for building sheets for waterproofing - Part 1.Bitumen plastic and rubber sheets for waterproofing - Rules for sampling

3 Terms and definitions

The following terms and definitions by apply to this Part of GB/T 328.

3.1 Upper side

In the using field, the upwards side of the sheets is usually the inner side of the coiled sheets.

3.2 Water tightness

The waterproof ability of the flexible sheets for waterproofing, such as.

Method A. The filter paper on the surface of the test-piece is non-discolouring during the whole test process.

Method B. Comparing to the start pressure, the final pressure reduces not more than 5%.

4 Principles

For the sheets within the concerned range of bitumen, plastic and rubber, this Standard provides the test procedures of two kinds of test methods.

4.1 Method A

This test is applicable for the low-pressure using condition of sheets, such as. roof, base layer and vapour retarder layer. The test-piece is satisfied with the requirements till the pressure is 60KPa and lasts for 24 hours.

4.2 Method B

This test is applicable for the high-pressure using condition of sheets, such as. the special roof, tunnel and reservoir. The test-pieces, adopting four discs which have the regulated shape and size of slot, are maintained under the regulated water pressure for 24 hours; or the test-piece, adopting seven-hole discs, are maintained under the regulated water pressure for 30 minutes; then observe whether the test-pieces maintain no-leakage.