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

GB/T 328.13-2007

**Test methods for building sheets for waterproofing -- Part 13:
Plastic and rubber sheets for waterproofing-dimensional
stability**

(English Translation)

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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 13 of GB/T 328.

This Part is identical to EN 1107-2:2001 "Flexible Sheets for Waterproofing -

Determination of Dimensional Stability - Part 2. Plastic and Rubber Sheets for Roof Waterproofing" (English edition).

Chapter and article numbers of this Part is consistent with those of EN 1107-2.2001.

In order to make it convenient for use, this Part makes the following editing modification.

- a) "This European Standard" is changed into "this Part";
- b) "EN 13416" is changed into "GB/T 328.1";
- c) "Plastic and rubber sheets for roof waterproofing" is changed into "Plastic and rubber sheets for waterproofing";
- d) The foreword of EN 1107-2.2001 is deleted; the foreword of this Part is re-compiled.

"Test Methods for Bitumen Sheets for Waterproofing" (GB/T 328-1989) is replaced by "Test Methods for Building Sheets for Waterproof" (GB/T 328.1 ~ 328.27-2007) that is composed by this Part and other parts.

Test Methods for Building Sheets for
Waterproofing - Part 13. Plastic and Rubber
Sheets for Waterproofing - Dimensional Stability

1 Scope

This Part of GB/T 328 specifies a method for the determination of dimensional variation after heating of plastic and rubber sheets for roof waterproofing.

2 Normative References

The following normative documents contain provisions which, through reference in this text, constitute provisions of this Part of GB/T 328. For dated references, then subsequent amendments revisions of these publications do not apply. However, parties who enter into an agreement based on this Part are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies.

GB/T 328.1 Test Methods for Building Sheets for Waterproofing - Part 1. Bitumen Plastic and Rubber Sheets for Waterproofing-rules for Sampling

3 Definition

For the purpose of this Part, the following definition applies.

3.1 Top surface

Upper side of the sheet, as used in situ. It is usually the inside of the roll.

4 Principle

The principle of the test is measurement of the initial longitudinal and transversal dimensions of the test specimen. Heating of the test specimen for a specified time at a specified temperature. Measurement of the resulting longitudinal and transversal dimensions of the test specimens after reconditioning and calculation of the dimensional variations.

5 Apparatus

The testing equipment consists of parts indicated in 5.1 and 5.2.

5.1 Ventilated air oven

The oven shall be regulated in such a way that the test specimens can be maintained at the specified temperature ± 2 °C during the full testing period. A thermometer or a thermocouple shall be placed near the test specimens to record the real test temperature.

The oven shall be so equipped that test specimens can be placed in it without hindering their dimensional variations during the test period; for example, to prevent the effect, the test specimen is placed on a glass plate coated with talcum powder.

5.2 Mechanical or optical measuring device

The measuring device shall be capable of determining the longitudinal and transversal dimensions of the test specimens with an accuracy of at least 0.1mm.