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

GB/T 328.15-2007

**Test methods for building sheets for waterproof -- Part 15:
Plastic and rubber sheets for waterproof-foldability at low
temperature**

(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 15 of GB/T 328.

This Part is identical to EN 495-5:2001 "Flexible Sheets for Waterproofing -

Determination of Foldability at Low Temperature - Part 5: Plastic and Rubber Sheets for Roof Waterproofing" (English edition).

Chapter and article numbers of this Part is consistent with those of EN 495-5:2001.

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" and "EN 1849-2" are changed into "GB/T 328.1" and "GB/T 328.5" respectively;
- c) "Plastic and rubber sheets for roof waterproofing" is changed into "Plastic and rubber sheets for waterproofing";
- d) The foreword and normative references of EN 495-5:2001 are 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 15: Plastic and Rubber Sheets for Waterproofing -

Foldability at Low Temperature

1 Scope

This Part of GB/T 328 specifies a method for the determination of the behaviour of plastic and rubber sheets for roofing to folding after exposure at a low temperature.

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

GB/T 328.5 Test Methods for Building Sheets for Waterproofing - Part 5: Plastic

and Rubber Sheets for Waterproofing-thickness and Mass per Unit Area

3 Terms and Definitions

For the purpose of this Part of GB/T 328, the following terms and definitions apply:

3.1 Top surface

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

3.2 Bottom surface

The lower side of the sheet, as used in situ. It is usually the outside of the roll.

3.3 Overall thickness (e)

Thickness of the sheet, excluding any surface profile (see GB/T 328.5).

8.2 Thickness

Measure the overall thickness of each test specimen according to GB/T 328.1.

8.3 Looping

Loop the test specimen lengthways and fix the ends together, for example with adhesive tape, see Figure 1. Fold one L and one T test specimen so that the top surface of the sheet forms the outside of the loop. Similarly fold the other two L and T test specimens so that the top surface of the sheet forms the inside of the loop.

8.4 Plate distance

Adjust the distance between the plates of the folding apparatus at a value of three times the test specimen overall thickness (see 8.2). Check the distance between the plates in four points as indicated in Figure 1.