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

GB/T 328.21-2007

**Test methods for building sheets for waterproofing -- Part 21:
Plastic and rubber sheets for waterproofing-resistance to
peeling of joints
(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 21 of GB/T 328.

This Part is identical to EN 12316-2:2000 "Flexible Sheets for Waterproofing -

Determination of Peel Resistance of Joints - Part 2. Plastic and Rubber Sheets for Roof Waterproofing" (English edition).

Chapter and article numbers of this Part are consistent with those of EN 12316-2:2000.

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

- 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 and normative references of EN 12316-2:2000 are deleted; the foreword of this Part is re-compiled;
- e) The Note of "Scope" is changed into the main-text of this Part.

Test Methods for Building Sheets for Waterproofing -
Part 21. Plastic and Rubber Sheets for Waterproofing -
Resistance to Peeling of Joints

1 Scope

This Part of GB/T 328 specifies a method for determining the resistance to peeling of joints between two adjacent sheets of the same plastic or rubber sheets for roof waterproofing.

This test method will be used mainly for testing the joints in mechanically fastened plastic or rubber sheets for roof waterproofing.

The peeling characteristics of a joint between two widths of plastic or rubber sheets vary considerably depending on the material, method of jointing, the size of the overlap and the workmanship.

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

JJG 139-1999 Verification Regulation of Universal Tension and Compression

Testing Machine

3 Terms and Definitions

For the purpose of this Part of GB/T 328, the following definition applies.

Peel resistance

The tensile force required to completely separate a prepared joint test specimen by

8 Procedure

The test specimen shall be firmly held in the grips of the tensile testing machine, taking care that the longitudinal axis of the test specimen, the axis of the tensile testing machine and the grips are correctly aligned.

The clear distance between the grips shall be (100 ± 5) mm (see Figure 2). No preload will be applied.

The test is carried out on a test specimen at a temperature of (23 ± 2) °C and at a constant separating speed for the grips of (100 ± 10) mm/min.

The applied force and extension shall be recorded continuously until the test specimen separates.

The mode of failure of the joint shall be recorded.

9.1 Jointing information

State all relevant information on the formation and the conditioning of the joint.