

भारतीय मानक

बिटूमैन आधारित नमदा — परीक्षण पद्धतियाँ

भाग 5 उष्मा प्रतिरोधिता परीक्षण

Indian Standard

BITUMEN BASED FELT — METHODS OF TEST

PART 5 HEAT RESISTANCE TEST

UDC 691.165 : 620.193.5

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Water-proofing and Damp-proofing Sectional Committee had been approved by the Civil Engineering Division Council.

Bitumen felts may be of different types depending upon the raw material used and their construction. IS 1322 : 1993 'Specification for bitumen felts for water proofing and damp-proofing (*fourth revision*)' and IS 7193 : 1994 'Specification for glass fibre base bitumen felts (*first revision*)', covers bitumen felts of hessian base and glass fibre base respectively. The above standards require amongst other requirements, detailed testing of each of these products. Various methods of test relating to each product for determination of physical properties have been included in the separate standards. All types of felts have to satisfy some common essential physical requirements for which methods of tests are same. A series of standards covering methods of test have therefore been formulated to cover the determination of various physical requirements of bitumen felt. This standard covers heat resistance test. Other parts of the standard are as follows:

- Part 1 Breaking strength test,
- Part 2 Pliability test,
- Part 3 Storage sticking test,
- Part 4 Pressure head test,
- Part 6 Water absorption test, and
- Part 7 Determination of binder content.

The composition of the technical committee responsible for the formulation of this standard is given in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard***BITUMEN BASED FELT — METHODS OF TEST****PART 5 HEAT RESISTANCE TEST****1 SCOPE**

This standard (Part 5) covers method for the determination of heat resistance capacity of bitumen felts.

2 REFERENCES

The Indian Standard IS 4911 : 1986 'Glossary of terms relating to bituminous water-proofing and damp-proofing of building' is necessary adjunct to this standard.

3 TERMINOLOGY

3.0 For the purpose of this standard the definitions given in IS 4911 : 1986, in addition to the following shall apply.

3.1 Heat Resistance Property

The property of felt which indicates its resistance against high temperature so as to not show any sign of melting.

4 APPARATUS

A chamber suitably fitted with a thermostat to keep a constant required temperature.

5 PROCEDURE

5.1 One test piece of size 100 × 100 mm from each of the samples. At least five test pieces shall be taken.

5.2 All the test pieces shall be kept suspended vertically by means of clips, in a chamber at the required temperature for three hours.

5.3 At the end of the period samples shall be taken out of the heated chamber and examined visually for signs of melting of the bitumen compound.

6 REPORTING

Reporting shall include the following:

- a) Date of testing,
- b) Detail of sample, and
- c) Observation.

ANNEX A
(Foreword)

COMMITTEE COMPOSITION

Composition of Water-proofing and Damp-proofing Sectional Committee, CED 41

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