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भारतीय मानक

( Reaffirmed 1998 )

बिटुमेन आधारित नमदा — परीक्षण पद्धतियाँ

भाग 3 भंडारण संलग्न परीक्षण

*Indian Standard*

**BITUMEN BASED FELTS — METHODS OF TEST**

**PART 3 STORAGE STICKING TEST**

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**BUREAU OF INDIAN STANDARDS**  
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NEW DELHI 110002

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Price Group 1

## 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 : 1993 Specification for glass fibre base coal tar pitch and bitumen felts ( *first revision* ), covers bitumen felts of hessian based 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 test are same. A series of standards covering methods of test have therefore been formulated to cover the determination of physical requirements of bitumen felt. This standard covers storage sticking test. Other parts of the standard are as follows :

- Part 1 Breaking Strength Test
- Part 2 Pliability Test
- Part 4 Pressure Head Test
- Part 5 Heat Resistance Test
- Part 6 Water Absorption Test
- 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 be 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 FELTS — METHODS OF TEST

### PART 3 STORAGE STICKING TEST

#### 1 SCOPE

This standard ( Part 3 ) covers method for the determination of storage sticking property of the felt.

#### 2 REFERENCE

The Indian Standard IS 4911 : 1986 'Glossary of terms relating to bituminous waterproofing and dampproofing of buildings' is the 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 Storage Sticking Property

The property of felt due to which layers of felts kept together have tendency to stick.

#### 4 APPARATUS

4.1 A chamber, suitably fitted with a thermostat, capable of maintaining a constant

temperature of  $55 \pm 2^\circ\text{C}$  or higher temperature as per the requirement of the particular type of the felt for 18 hours ( for a typical arrangement of the apparatus, see Fig. 1 ).

#### 5 PROCEDURE

##### 5.1 Preparation of Test Specimen

Four test pieces of size  $100 \times 100$  mm from each of the sample shall be taken.

##### 5.2 Testing

5.2.1 Four test pieces shall be kept one above other in the chamber as shown in Fig. 1 and shall be subjected to a constant pressure of  $(0.7 \text{ kg/cm}^2)$  for 18 hours. The temperature of the chamber shall be maintained at  $55 \pm 2^\circ\text{C}$  throughout the period.

5.2.2 After 18 hours, load shall be released and test pieces shall be taken out and checked.

#### 6 REPORTING

The report shall be to indicate whether layers of felt is capable of being separated without damaging the coats in any way.

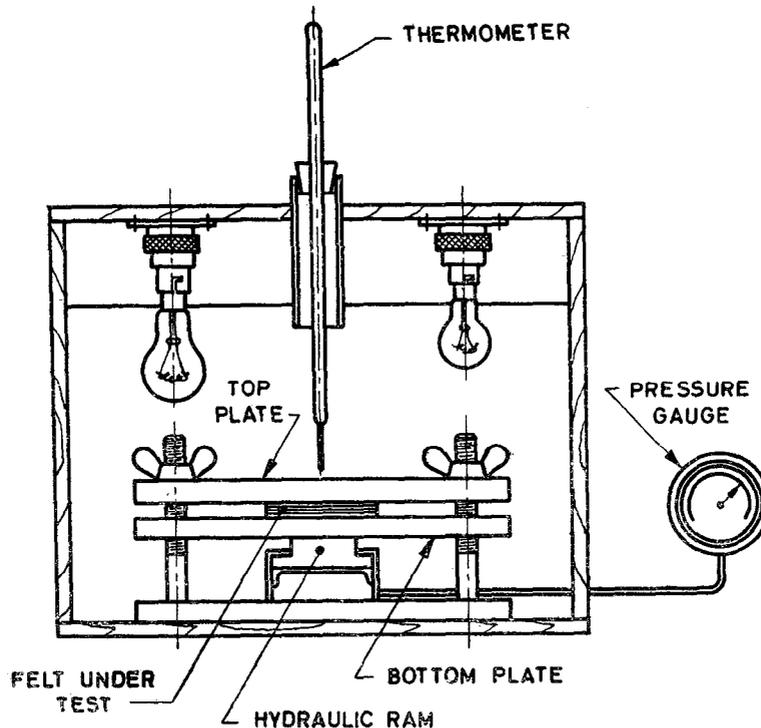


FIG. 1 ARRANGEMENT FOR STORAGE STICKING TEST

**ANNEX A**  
( Foreword )

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

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