

IS : 2818 ( Part II ) - 1971  
(Reaffirmed 2000)

*Indian Standard*

REAFFIRMED

2006

SPECIFICATION FOR INDIAN HESSIAN

PART II 305 AND 229 g/m<sup>2</sup> AT 16 PERCENT CONTRACT REGAIN

( First Revision )

Fourth Reprint MARCH 2006  
(Including Amendments No. 1, 2, 3 and 4)

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

Gr 1

*September* 1971

AMENDMENT NO. 1    JANUARY 1987

TO

IS:2818(Part II)-1971 SPECIFICATION FOR INDIAN  
HESSIAN

PART II 305 AND 229 g/m<sup>2</sup> AT 16 PERCENT  
CONTRACT REGAIN

(First Revision)

[Page 3, Table 1, under Requirement, Type I  
and Type II, against Sl No. (iv)] - Substitute  
'101.5 cm (or 40 in)' for '102 cm (or 40 in)'.

(TDC 3)

**AMENDMENT NO. 2 MARCH 1999  
TO  
IS 2818 (PART II) : 1971 SPECIFICATION FOR  
INDIAN HESSIAN  
PART II 305 AND 229 g/m<sup>2</sup> AT 16 PERCENT  
CONTRACT REGAIN**

*( First Revision )*

[ *Page 4, Table 2, Sl No. (vii)* ] — Substitute the following for the existing:

'vii) Permissible number of short pieces per bale (see Note 6)	<i>3, Max</i>	<i>3, Max</i>
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( *Page 4, Table 2, Note 5* ) — Incorporate Note 6 after Note 5:

'NOTE 6 — Short piece is a length of continuously woven jute fabric measuring 18 m or more but less than 82 m.'

( TX 03 )

**AMENDMENT NO. 3 MAY 2002**  
**TO**  
**IS 2818 (PART 2) : 1971 SPECIFICATION FOR**  
**INDIAN HESSIAN**  
**PART 2 305 AND 229 g/m<sup>2</sup> AT 16 PERCENT CONTRACT REGAIN**  
**( First Revision )**

[Page 4, Table 2, Sl No. (ix), column 3, 'Requirement' ] — Substitute '3 percent, Max' for '6 percent, Max' for both Type I and Type II.

( TX 03 )

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**AMENDMENT NO. 4 JANUARY 2003  
TO  
IS 2818 ( Part II ) : 1971 SPECIFICATION FOR INDIAN  
HESSIAN  
PART II 305 AND 229 g/m<sup>2</sup> AT 16 PERCENT CONTRACT REGAIN  
( First Revision )**

[ Page 3, Table 1, Sl No. (i) and (iv)] — Substitute the following for the existing:

Sl No.	CHARACTERISTIC	REQUIREMENT		METHOD OF TEST [see IS 2818 (PART 1)]
		Type I	Type II	
i)	Mass per square metre	305 g	229 g	B-6
	Tolerance (+8 percent)	+24.4 g	+18.3 g	
	(-2 percent)	- 6.1 g	- 4.6 g	
iv)	Width	101.5 cm	101.5 cm	B-5
	Tolerance	+3.0 cm	+ 3.0 cm	
		- 0.0 cm	- 0.0 cm	

( Page 3, Note in Table 1 ) — Substitute the following for the existing Note:

'NOTE — Width of hessian shall be 101.5 cm or as specified in an agreement between the buyer and the seller; if the agreed width of hessian is below 101.5 cm, the tolerance shall be +3.0/-0.0 cm and if the agreed width of hessian is above 101.5 cm, the tolerance shall be +3/-0 percent.'

[ Page 4, Table 2, Sl No. (ii), Type I and Type II ] — Substitute '566 kg' for '569 kg' for Type I and '425 kg' for '427 kg' for Type II.

( Page 4, Table 2, Note 1, para 2, line 1 ) — Substitute '101.5 cm' for '102 cm'.

( Page 4, Table 2, Note 5 ) — Substitute the following for the existing Note:

'NOTE 5 — The specified oil content value of 3 percent corresponds to an oil content of about 2.6 percent when determined on dry de-oiled material plus 16 percent moisture regain.'

Amendment No. 1 to this standard is withdrawn .

( TX 03 )

# Indian Standard

## SPECIFICATION FOR INDIAN HESSIAN

### PART II 305 AND 229 g/m<sup>2</sup> AT 16 PERCENT CONTRACT REGAIN

### (First Revision)

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IS : 2818 (Part II) - 1971

## *Indian Standard*

### SPECIFICATION FOR INDIAN HESSIAN PART II 305 AND 229 g/m<sup>2</sup> AT 16 PERCENT CONTRACT REGAIN (*First Revision*)

#### 0. FOREWORD

**0.1** This Indian Standard (Part II) (First Revision) was adopted by the Indian Standards Institution on 16 June 1971, after the draft finalized by the Jute and Jute Products Sectional Committee had been approved by the Textile Division Council.

**0.2** Other requirements regarding terminology, general requirements, packaging and marking, sampling and inspection, criteria for conformity of Indian hessian packed in bales or rolls will be according to Part I, of this standard.

**0.3** All quantities and dimensions in this standard have been expressed in the metric system. However, corresponding values in fps system have also been given wherever necessary as a guidance to the manufacturers and the consumers.

**0.4** 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, shall be rounded off in accordance with IS : 2-1960\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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#### 1. SCOPE

**1.1** This standard prescribes constructional details and other particulars of the following two types of hessian of such widths as agreed to between the buyer and the seller:

Type I — 305 g/m<sup>2</sup>; 47 × 47 (or 10 oz/40 in; 11 × 12)

Type II—229 g/m<sup>2</sup>; 38 × 35 (or 7½ oz/40 in; 9 × 9)

#### 2. SPECIFIC REQUIREMENTS

**2.1** The hessian shall conform to the requirements laid down in Table 1.

**2.2** The packed bales or rolls shall conform to the provisions laid down in Table 2.

**2.3 Contract Regain** — The contract moisture regain shall be 16 percent.

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\*Rules for rounding off numerical values (*revised*).

TABLE I PARTICULARS OF HESSIAN

(Clause 2.1)

Sl. No.	CHARACTERISTIC	REQUIREMENT		METHOD OF TEST [see IS: 2818 (Part I)-1971*]
		Type I	Type II	
i)	Weight per square metre	305 g (or 10 oz/40 in)	229 g (or 7½ oz/40 in)	B-6
	<i>Tolerance</i> (+8 percent) (-2 percent)	+24 g -6 g	+18 g -4.6 g	
ii)	Ends per dm (or Porter)	47 (11.0)	38 (9.0)	B-7
	<i>Tolerances</i>	±2	+2 -1	
iii)	Picks per dm (or Shots per inch)	47 (12.0)	35 (9.0)	
	<i>Tolerance</i>	±2	+2 -1	
iv)	Width	102 cm (or 40 in)	102 cm (or 40 in)	B-5
	<i>Tolerance</i>	+3 cm -0 cm	+3 cm -0 cm	
v)	Breaking load :			B-8
	a) Strip method (10×20 cm) :			
	Warpway	112 kg (or 248 lb)	92 kg (or 202 lb)	
	Weftway	120 kg (or 264 lb)	78 kg (or 171 lb)	
	b) Grab method (1×3 in) :			
	Warpway	36 kg (or 80 lb)	29 kg (or 65 lb)	
	Weftway	39 kg (or 85 lb)	25 kg (or 55 lb)	

NOTE — Width of hessians shall be 102 cm or as specified in an agreement between the buyer and the seller; if the agreed width of hessian is below 102 cm, the tolerance shall be ±8 cm and if the agreed width of hessian is above 102 cm, the tolerance shall be ±8 percent.

\*Specification for Indian hessian, Part I General.

TABLE 2 REQUIREMENTS OF PACKED BALES OR ROLLS

(Clause 2.2)

Sl. No.	CHARACTERISTIC	REQUIREMENT		METHOD OF TEST [see IS: 2818 (Part I)-1971*]
		Type I	Type II	
i)	Moisture regain	17 percent, <i>Max</i>	17 percent, <i>Max</i>	B-2
ii)	Contract weight of a bale (see Note 1)	569 kg	427 kg	—
iii)	Contract weight of a roll	Calculated on the basis of formula given in Note 1 below		
iv)	Corrected net weight of a bale or roll (see Note 2)	Not less than contract weight		B-1
v)	Length of hessian per bale (see Note 3)	1 829 m, <i>Min</i> (or 2 000 yd)	1 829 m, <i>Min</i> (or 2 000 yd)	B-3
vi)	Length of hessian per roll	As specified in an agreement between the buyer and the seller		
vii)	Permissible number of medium cuts and short pieces per bale	3 medium cuts, <i>Max</i> , or 2 medium cuts and 1 short piece, <i>Max</i>	3 medium cuts, <i>Max</i> , or 2 medium cuts and 1 short piece, <i>Max</i>	
viii)	Number of joints in a roll(s) and number of such joined rolls in a consignment (see Note 4)	As agreed to between the buyer and the seller		
ix)	Oil content on dry deoiled material basis (see Note 5)	6 percent, <i>Max</i>	6 percent, <i>Max</i>	B-9

NOTE 1 — Contract weight of a bale or roll is calculated as follows:

$$\text{Contract weight of a bale or roll in kg} = \frac{\text{nominal width (cm)}}{100} \times \text{marked length (m)} \times \frac{\text{weight (g/m}^2\text{)}}{1\ 000}$$

Contract weight of a bale given in the table is on the basis of 102 cm nominal width and marked length of 1 829 m per bale.

NOTE 2 — Corrected net weight of a bale or roll is calculated as follows:

$$\text{Corrected net weight of a bale or roll} = \frac{\text{net weight} \times (100 + \text{contract regain percent})}{100 + \text{average moisture regain percent}}$$

NOTE 3 — Length of hessian per bale shall be 1 829 m or as specified in an agreement between the buyer and the seller.

NOTE 4 — The seller shall indicate on the roll(s) the number of joints, if any.

NOTE 5 — The specified oil content value of 6 percent corresponds to an oil content of about 5 percent when determined on dry deoiled material plus 16 percent regain.

\*Specification for Indian hessian, Part I General.

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