

**IRISH STANDARD SPECIFICATION**

**SHEETING, SHEETS AND PILLOW  
SLIPS MADE OF COTTON**

I.S. 2: Part 1: 1982

*Price Code C*

**INSTITUTE FOR INDUSTRIAL RESEARCH AND STANDARDS**

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## **DECLARATION**

OF

SPECIFICATION

ENTITLED

**SHEETING, SHEETS AND PILLOW SLIPS MADE OF COTTON**

AS

**THE IRISH STANDARD SPECIFICATION FOR**

**SHEETING, SHEETS AND PILLOW SLIPS MADE OF COTTON**

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The Institute for Industrial Research and Standards in exercise of the power conferred by section 20 of the Industrial Research and Standards Act, 1961 (No. 20 of 1961), and with the consent of the Minister for Industry and Energy, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Sheeting, Sheets and Pillow Slips made of Cotton) Declaration, 1982.

2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Sheeting, Sheets and Pillow Slips made of Cotton.

(2) The said standard specification may be cited as Irish Standard 2 : Part 1 : 1982 or as I.S. 2 : Part 1 : 1982.

3. (1) The Standard Specification (Cotton Bed Sheetings and Cotton Bed Sheets) Order, 1949, (S.I. No. 156 of 1949), is hereby revoked.

(2) Reference in any other standard specification to the Order hereby revoked and to Irish Standard 2 : 1949, thereby prescribed, shall be construed, respectively, as references to this Instrument and to Irish Standard 2 : Part 1 : 1982.

## SCHEDULE

# Sheeting, Sheets and Pillow Slips made of Cotton

### 1. SCOPE

Section 1 covers the requirements for 100% cotton sheeting fabric. Two grades of sheeting are covered,

Light Grade,

Heavy Grade.

Section 2 covers the requirements for sheets, draw sheet and pillow slips made from sheeting complying with Section 1.

### SECTION 1: SHEETING

#### 2. GENERAL REQUIREMENTS FOR SHEETING FABRIC

Cotton sheeting fabric conforming to this specification shall be free from imperfections or blemishes that affect its appearance or serviceability. The yarn from which it is woven shall be composed entirely of chemically sound, thoroughly cleaned cotton free from waste. Sheeting manufactured from the fabric shall be of uniform length, width and weave and may be bleached, unbleached or dyed. It shall be available in the unbleached, bleached or dyed state, either in plain weave or loomstate twill. The selvages shall be firm and straight.

#### 3. DETAIL REQUIREMENTS

**3.1 Weave.** The weave shall be plain weave or 2×2 twill or 3×1 herring-bone twill.

**3.2 Length.** Each piece shall be one continuous length and unless otherwise specified, this length shall be not less than 60 m. Length of sheeting shall be determined in accordance with ISO 3933:1976 “Textiles – Woven fabrics – measurement of length of pieces”, issued by the International Organization for Standardization, 1 rue de Varembe, 1211 Geneva 20, Switzerland.

**3.3 Width.** The width of sheetings shall be as shown in Table 2. Widths shall be determined in accordance with ISO 3932:1976 “Textiles – Woven fabrics – Measurement of width of pieces”.

**3.4 Mass.** The mass of the fabric shall be in accordance with Table 1. It shall be determined in accordance with ISO 3801:1977 “Textiles – Woven fabrics – Determination of mass per unit length and mass per unit area”.

**3.5 Minimum number of yarns per cm in warp and weft.** This property shall meet the requirements set out in Table 1. It shall be determined in accordance with Method 4/88, Determination of threads per centimetre in woven fabrics, of British Standards Handbook 11:1974, “Methods of test for textiles” published by the British Standards Institution, 2 Park Street, London W1A 2BS.

**3.6 Breaking load.** The breaking load in warp and weft shall be as given in Table 1 and shall be determined in accordance with ISO 5081:1977 “Textiles – Woven fabrics – Determination of breaking strength and elongation (Strip method)”.

**3.7 Filling.** The maximum filling percentage shall be as set out in Table 1. It shall be determined in accordance with B.S. 4032:1978, “The determination of certain water- or alkali-soluble additives in cellulosic or synthetic fibres, yarns and fabrics or yarns and fabrics made from blends of such fibres”.

**3.8 Colour of fabrics.**

**3.8.1 White fabrics.** Unless otherwise specified in the purchase documents, sheeting and sheets conforming to this specification shall be white, i.e. the fabric shall be given a full commercial bleach.

**3.8.2 Dyed fabrics.** The colour shall be as specified in the purchase documents. When so required by the purchaser, the sheeting shall have woven coloured stripes.

**3.9 Chemical damage (Bleached sheeting).** The apparent fluidity of a cuprammonium solution of the fabric from which all the non-fibrous material has been removed (cf., ISO/TR 5090:1977 “Textiles – Methods for the removal of non-fibrous matter prior to quantitative analysis of fibre mixtures”) shall not exceed the values cited in Table 1. This property shall be determined in accordance with B.S. 2510:1978 “Method of test for the determination of cuprammonium fluidity of cotton and certain cellulosic man-made fibres”.

**3.10 Maximum dimensional change, each direction, laundering (10 cycles).** The above property shall conform to Table 1 and shall be determined by the method prescribed in ISO 675:1979 “Textiles – Woven fabrics – Determination of dimensional change on commercial laundering near boiling point”.

**3.11 Colour fastness of dyed sheeting.** The minimum values for colour fastness (to light, laundering, dry cleaning, dry rubbing, wet rubbing, perspiration) shall accord with the table given below. The test method used shall be as specified in ISO 105:1978 “Textiles – Tests for colour fastness”. Dyed sheeting shall show no visible evidence of change in colour either through loss of depth or change in hue outside the limits specified in the following table.

COLOUR FASTNESS REQUIREMENTS FOR DYED SHEETING

<i>Colour fastness to</i>	<i>No more change in colour than</i>
Light	Blue scale 4
Laundering	Grey scale 4 or to staining than grey scale 3
Dry cleaning	Grey scale 4
Dry rubbing	Grey scale 4
Wet rubbing	Grey scale 3–4
Perspiration	Grey scale 4 or to staining than grey scale 3–4

**4. MARKING**

Sheeting shall be clearly and indelibly marked at each end of each piece with the following information:

- (a) the inscription “I.S. 2: Part 1:1982”,
- (b) the manufacturer’s name or mark,
- (c) the words “Cotton Sheeting”,
- (d) the length of the piece in metres.

Alternatively, a label secured to one end of the piece shall give the same information.

**5. SAMPLES FOR TEST**

Samples of sheeting required for the tests prescribed in this specification shall be cut (not torn) from the piece at a position not less than 3 metres from the end of the piece. They shall be the full width of the sheeting and shall be not less than 2 m in length.

6. SEWING THREAD

Except otherwise specified a suitable core spun polyester thread or cotton thread conforming to I.S. 113:1964 “Domestic Sewing Threads (Cotton and Linen)” shall be used.

TABLE 1 – MINIMUM PERFORMANCE REQUIREMENTS FOR COTTON SHEETING (PLAIN AND TWILL)

Grade	Weave	Finish	Filling Content %	Fluidity Reciprocal poises	Mass g/m²	Fabric count, yarns/cm		Breaking load, newtons		Dimensional change after laundering %	
						warp	weft	across warp	across weft	in warp	in weft
Light Grade	Plain	Scoured, Bleached or Dyed	≥ 2	6.0	175	25	23	470	510	≥ 6.5	≥ 6.0
Heavy Grade (Draw Sheeting)	2/2 Twill	Loomstate	≥ 5	6.0	270	17	22	310	850	≥ 6.5	≥ 6.0

TABLE 2 – PERMITTED WIDTHS OF COTTON SHEETING

Grade	Permitted widths (cm)
Light Grade (See Table 1)	230, 180, 155
Heavy Grade (See Table 1)	144

SECTION 2: SHEETS AND PILLOW SLIPS

7. MATERIALS

Cotton sheets and pillow slips shall be manufactured from a grade of cotton sheeting conforming to the requirements specified in Section 1 of this specification. Each sheet or pillow slip shall be made from a single full width of material. The material shall be carefully cut on the warp.

8. HEMMING

Each sheet shall be hemmed at each end, but not at the sides. Hems of a size specified in the purchase documents and ideally of equal width and sewn with thread conforming to Clause 6 of this specification shall be used. The turn-in shall be not less than 6 mm. The sewing shall be lockstitch with a minimum of 4 stitches per cm. The ends of the sewings, also breaks in the threads during sewing shall be securely backstitched.

The hem at the open end of pillow slips shall be  $25 \pm 3$  mm wide, turned to the inside unless otherwise specified by the purchaser and with the raw edge folded in 6 mm. The hem on the flap shall be at least 6 mm wide with the raw edge folded in 3 mm. A selvedge may be used on the flap without hemming.

9. DIMENSIONS

The finished dimensions for sheets and pillow slips are given in Table 3.

10. PILLOW SLIPS, COTTON, PLAIN WEAVE, MANUFACTURE

The pillow slip shall be made to the Housewife pattern with 20 cm flap and shall have the selvedges at the end of the flap and the opening. The flap edges shall be inserted between the long side seams. No cut edges shall be exposed. The sewing shall be of even tension throughout and shall be finished off securely and neatly. The number of stitches per cm shall be not less than 5. Figure 1 shows the Housewife pattern pillow slip.

11. MARKING OF SHEETS AND PILLOW SLIPS

Sheets and pillow slips shall be clearly and indelibly marked, the former at one corner, the latter on the inside of the flap, with the following information:

- (a) the inscription "I.S. 2: Part 1:1982",
- (b) the manufacturer's name or mark,
- (c) the word "Cotton",
- (d) the dimensions,
- (e) the grade of sheeting, e.g., Light Grade or Heavy Grade.

TABLE 3 – FINISHED DIMENSIONS OF SHEETS, DRAW SHEETS AND PILLOW SLIPS

Item	Width x Length (cm)
Sheets: Cotton Plain weave	152 x 203 178 x 274, 178 x 252, 178 x 229 70 x 89
Draw Sheets: Cotton Twill weave	114 x 183
Pillow Slips	51 x 76 59 x 76

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