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Specification for  
**Tickings**

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## Foreword

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This British Standard has been prepared under the direction of the Furniture and Household Equipment Standards Policy Committee and supersedes BS 2036 : 1962, BS 2732 : 1961 and BS 4820 : 1972, which are withdrawn.

In this standard, requirements are specified for tickings which are suitable for use in the public sector, in contract applications and for domestic use. Appendix A gives a method for determining elongation at 100 N and appendix B gives supplementary information on mass per unit area.

Requirements for tickings for use in the public sector and in contract applications were previously specified in BS 2732 from which this British Standard differs, in that general requirements have been introduced irrespective of fibre type or fabric construction to allow the use of fabrics other than those more rigidly defined by fibre type and construction in BS 2732. However, some of the fabrics contained in BS 2732 are still in use, therefore, the finished particulars of these fabrics have been retained for reference in appendix C of this standard.

Requirements for domestic tickings were previously specified in two British Standards, BS 2036 which covered the constructions of ticking fabric and BS 4820 which specified performance requirements for coverings not included in BS 2036. The passage of time and the introduction of other materials has rendered much of BS 2036 obsolete. It was also considered that a standard based on performance rather than construction was preferable to allow for the development and use of other materials.

Many properties cannot be specified objectively and cannot therefore be included in the specification. Examples of such properties include colour, handle, appearance and details of additional design features. Purchasing authorities may be able to supply standard patterns which cover these properties and would thereby serve to resolve any ambiguities of description.

Flammability requirements are not included in this standard, as the flammability of tickings can only be measured satisfactorily in combination with the fillings that will be used in made-up mattresses, divans, bed bases, etc. Attention is drawn to BS 7177.

**Compliance with a British Standard does not of itself confer immunity from legal obligations.** In particular, attention is drawn to Statutory Instrument 1986 No. 26 Trade Descriptions, the Textile Products (Indications of Fibre Content) Regulations 1986.

# Specification

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## 1 Scope

This British Standard specifies the performance requirements, other than flammability, of tickings suitable for covering mattresses, divans and bed bases which are intended to be used in domestic, public sector and contract applications. Certain fabrics may also be suitable for use as pillow tickings.

NOTE. The titles of the publications referred to in this standard are listed on the inside back cover.

## 2 Definitions

For the purposes of this British Standard, the definitions given in BS 5523 and BS 6189 apply, together with the following.

### ticking

A primary covering fabric which is not intended to be removable from a mattress, divan or bedbase or pillow.

## 3 Sampling

### 3.1 Bulk sample

#### 3.1.1 Domestic use

When the inspection lot consists of two or more pieces or rolls the bulk sample shall consist of any two pieces or rolls taken at random. When the inspection lot consists of one piece only this shall comprise the bulk sample.

#### 3.1.2 Public sector and contract use

When the inspection lot consists of not more than four pieces or rolls, the bulk sample shall consist of all the pieces or rolls in the lot. When the inspection lot consists of more than four pieces or rolls, the bulk sample shall consist of four pieces or rolls taken at random.

### 3.2 Test sample

#### 3.2.1 Domestic use

When the bulk sample consists of two pieces or rolls, one 2 m length of fabric shall be taken at least 1 m from the end of each piece. When the bulk sample consists of one piece only, one 2 m length of fabric shall be taken at least 1 m from each end of the piece. These two lengths shall constitute the test sample.

#### 3.2.2 Public sector and contract use

One 2 m length of fabric shall be taken at least 1 m from the end of each piece or roll in the bulk sample. These lengths shall constitute the test sample.

### 3.3 Test specimens

Test specimens shall be taken at random from the test sample ensuring that replicate specimens do not contain the same warp or weft yarns.

## 4 Performance

NOTE 1. Requirements are given for two grades of ticking, grade A and grade B.

Grade A fabrics are intended for use in the public sector, and may be suitable for use in hospitals, armed services, prisons and mental institutions. This grade may also be suitable in heavy contract uses, e.g. purchased by local authorities, where mattresses are in constant use rather than being used only for sleeping.

Grade B fabrics are intended for domestic use. This grade may also be suitable in contract products intended for use in hotels, boarding houses and local authority homes, where mattresses are intended only for sleeping.

NOTE 2. Fabrics should be constructed in such a way as to prevent penetration of the filling through the fabric, or alternatively the use of a suitable interlining should be stipulated between the ticking and the filling in the end product.

NOTE 3. Appendix B gives supplementary information on mass per unit area.

NOTE 4. Appendix C contains a table of fabrics that have been used for contract applications for many years. These have been taken from BS 2732 : 1961 and are included for reference purposes.

### 4.1 General

When tested by the methods given in tables 1, 2 and 3 the performance of the fabric shall be as given in tables 1 or 2 as appropriate and the colour fastness shall be as given in table 3.

### 4.2 Unused articles of bedding

Samples of fabric taken for testing from unused articles of domestic bedding shall be considered to comply with this standard if testing reveals values no more than 5 % lower than the requirements specified.

NOTE. This allowance is intended to cover the variation exhibited by a number of samples in relation to a single sample and a tolerance for the effects on the fabric of manipulating it in making the mattress, divan or bed base.

Table 1. Performance of woven fabrics

Grade	Minimum breaking strength, warp and weft	Minimum seam slippage at 6 mm, warp and weft	Minimum tear strength, warp and weft
A	N 350	N 60	N 25
B	350	60	15
Method of test	BS 2576	BS 3320	BS 4303

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Table 2. Performance of fabrics other than woven

Grade	Minimum bursting strength	Minimum tear strength (fabrics other than knitted only), machine and cross directions	Maximum elongation at 100 N (stitch-bonded fabrics only)	
			machine direction	cross direction
A	kPa 1000	N 25	% 7	% 15
B	750	15	7	15
Method of test	BS 4768	BS 4303	Appendix A	Appendix A

Table 3. Colour fastness

Agency	Minimum rating	Method of test
Rubbing Wet Dry	3-4 4	BS 1006, section X12
Light	4	BS 1006, section B02

## 5 Marking

Each piece or roll of fabric shall bear the following information, e.g. on a label or swing ticket or on an accompanying invoice or document.

- The manufacturer's name, trademark or other means of identification.
- The contract and/or order number where applicable.
- The piece and/or batch number.
- The length of the piece or roll in metres.
- The width of the fabric in centimetres.
- The number and date of this British Standard, i.e. BS 7337 : 1990<sup>1)</sup>.
- Any other marking as the contract or order may direct.

<sup>1)</sup> Marking BS 7337 : 1990 on or in relation to a product represents a manufacturer's declaration of conformity, i.e. a claim by or on behalf of the manufacturer that the product meets the requirements of the standard. The accuracy of the claim is therefore solely the responsibility of the person making the claim. Such a declaration is not to be confused with third party certification of conformity, which may also be desirable.

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## Appendices

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### Appendix A. Method for the determination of elongation at 100 N

Carry out the test in accordance with BS 2576 except that the extension only is measured, at a force of 100 N as opposed to at break.

### Appendix B. Supplementary information on mass per unit area

No requirements for mass per unit area are specified in this British Standard so as not to prevent innovation of new ticking fabrics of lower mass per unit area.

Tickings having the mass per unit area values given in table 4, however, have been found to be suitable for the intended purpose.

### Appendix C. Construction and performance of tickings which have been used for contract applications

Table 5 gives a list of tickings which have been used for many years for contract applications. Details have been taken from BS 2732 and are presented for reference purposes.

Table 4. Mass per unit area

Fabric type	Grade	Minimum mass per unit area
Woven	A	200
	B	120
Knitted	A	105
	B	75
Other than woven or knitted	A	200
	B	120
Method of test		BS 2471

Table 5. Construction and performance of tickings which have been used for contract applications

Designation	1	2	3	4	5	6	7	8 <sup>2)</sup>	Test method
Description	Striped ticking for pillows and mattresses	Striped ticking for mattresses	Striped ticking for pillows and mattresses	Striped ticking for mattresses	Striped ticking for mattresses	Striped ticking for mattresses	Piece-bleached ticking for pillows and mattresses	Unbleached ticking for pillows and mattresses	
Weave	2/1 herringbone twill								BS 2861
Finish	Calendered	Calendered and filled	Glazed back and filled	Glazed back and filled	Calendered	Glazed back and filled	Piece-bleached glazed back and filled	Light calendered	
Fibre type	Cotton	Cotton	Cotton	Cotton	Viscose staple	Viscose staple	Cotton	Cotton	BS 4407
Mass per unit area (g/m <sup>2</sup> ) min.	314	340	246	270	314	263	242	314	BS 2471
Threads per cm (min.)									
Warp	32	34 <sup>1)</sup>	42	26	32	25	41	32	BS 2862
Weft	21	14	23	17	21	18	23	20	
Yarn linear density (tex) min.									
Warp ground	R60/2	R50/2	32	R60/2	R60/2	R60/2	36	(2 fold)	BS 2865
Weft coloured	R42/2	R50/2	32	R60/2	R42/2	R60/2	-	-	
Weft	R60/2	100	36	60	R60/2	60	42	(2 fold)	
Breaking strength (N) min.									
Warp	846	846	846	846	846	846	846	890	BS 2576
Weft	757	757	556	512	757	512	534	712	
Tear strength (N) min.									
Warp and weft	-	-	-	-	-	-	-	-	BS 4303
Extractable matter (%) max.	5	5	5	5	5	5	5	5	BS 4032

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**Table 5. Construction and performance of tickings which have been used for contract applications (concluded)**

Designation	1	2	3	4	5	6	7	8 <sup>2)</sup>	Test method
Description	Striped ticking for pillows and mattresses	Striped ticking for mattresses	Striped ticking for pillows and mattresses	Striped ticking for mattresses	Striped ticking for mattresses	Striped ticking for mattresses	Piece-bleached ticking for pillows and mattresses	Unbleached ticking for pillows and mattresses	
Dimensional change by water immersion (%) max.									
Warp and weft	-	-	-	-	-	-	-	2	BS 4736
Fluidity max.	-	-	-	-	-	-	6	-	BS 2610

<sup>1)</sup> Two ends working as one.

<sup>2)</sup> Interested parties may agree that fabric designation 8 may be supplied piece bleached, in which case the maximum fluidity is 6 and the minimum finished mass per unit area is 90 % of the unbleached value.

NOTE. Fabric designation 1, 2, 3, 4, 5 and 6 are patterned with coloured yarn stripes on a white or cream background unless otherwise indicated. Interested parties may agree on the colour, dimensions and arrangement of the stripes.

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