



SLOVENSKI STANDARD

SIST EN 13246:2002

01-januar-2002

Embalaža - Podrobni opis jeklenih povezovalnih trakov

Packaging - Specification for tensional steel strapping

Verpackung - Spezifikation für Umreifungsbänder aus Stahl

Emballage - Spécifications relatives aux cerclages d'acier

Ta slovenski standard je istoveten z: **EN 13246:2001**

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ICS:

55.040	Materiali in pripomočki za pakiranje	Packaging materials and accessories
77.140.50	Ploščati jekleni izdelki in polizdelki	Flat steel products and semi-products

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en

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EUROPEAN STANDARD

EN 13246

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2001

ICS 55.040

English version

Packaging - Specification for tensional steel strapping

Emballage - Spécifications relatives aux cerclages d'acier

Verpackung - Spezifikation für Umreifungsbänder aus Stahl

This European Standard was approved by CEN on 18 January 2001.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 261 "Packaging", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2001, and conflicting national standards shall be withdrawn at the latest by October 2001.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This European Standard specifies the dimensions and physical properties of a range of tensional steel strapping used to secure, close or strengthen packages and to band unit loads.

The types of tensional steel strapping covered by this European Standard and their characteristics are listed in Table 1.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 10002-1, *Metallic materials — Tensile testing — Part 1: Method of test (at ambient temperature)*

3 Requirements

3.1 Mechanical properties

The minimum tensile strength and percentage elongation at break of tensional steel strapping in the specified range shall be as shown in Table 2 when tested in accordance with EN 10002-1, using a test piece of the original strapping using a gauge length of 100 mm.

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3.2 Dimensions

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The nominal width and nominal thickness of the specified range shall be as shown in Table 2. The tolerance ranges applicable to width and thickness shall be as shown in Tables 3 and 4.

Table 1 — Types of tensional steel strapping

Type	Material	Characteristics
1	Cold rolled bright steel	Low tensile strength
2.1	Cold rolled and tempered steel	Medium tensile strength (Standard packaging quality)
2.2	Cold rolled and tempered steel	High tensile strength - Low elongation
3.1	Cold rolled, heat treated steel	Medium tensile strength - Very high elongation
3.2	Cold rolled, heat treat steel	High tensile strength - High elongation
3.3	Cold rolled, heat treated steel	Very high tensile strength

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Table 2 — Dimensions and mechanical properties

Nominal Width mm	Nominal Thick mm	Type 1	Type 2.1		Type 2.2		Type 3.1		Type 3.2		Type 3.3	
		Minimum Tensile N/mm ²	Minimum Tensile N/mm ²	Percent Elongation	Minimum Tensile N/mm ²	Percent Elongation	Minimum Tensile N/mm ²	Percent Elongation	Minimum Tensile N/mm ²	Percent Elongation	Minimum Tensile N/mm ²	Percent Elongation
9,5	0,4	650	750	0,5	900	0,5						
	0,5	650	750	1,0	900	0,5						
12,7	0,4	650	750	0,5	900	0,5						
	0,5	650	750	1,0	900	0,5		925	6			
	0,6	650	750	1,0	900	0,5						
16	0,4	650	750	0,5								
	0,5	650	750	1,0	900	0,5		925	6	1250	3	
	0,6	650	750	1,0				925	6	1250	3	
19	0,5	650	750	1,0			750	12	925	6		
	0,6	650	750	1,0								
	0,63	600	750	1,0	900	0,5	750	12	925	6	1250	3
	0,7	600	700	1,0					925	6	1250	3
	0,8	600	700	2,0	900	0,5	750	12	925	6	1250	3
	0,9	600	700	2,0			750	12	925	6	1250	3
25,4	0,63	600	750	1,0								
	0,8	600	700	2,0	900	0,5	750	12	925	6		
	0,9	600	700	2,0			750	12				
	1,0	600	700	2,0								
31,75	0,8	600	700	2,0	900	0,5	750	12	925	6		
	0,9	600	700	2,0			750	12				
	1,0	600	700	2,0			750	12				

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Table 3 — Nominal width - Tolerance range

Nominal width mm	Range mm	
	from	to
9,5	9,40	9,70
12,7	12,55	12,85
16	15,75	16,05
19	18,80	19,20
25,4	25,20	25,60
31,75	31,60	32,00

Table 4 — Nominal thickness - Tolerance range

Nominal thickness mm	Range mm	
	from	to
0,40	0,37	0,43
0,50	0,465	0,535
0,60	0,565	0,635
0,63	0,59	0,67
0,70	0,66	0,74
0,80	0,76	0,84
0,90	0,86	0,94
1,00	0,96	1,04

NOTE: The above figures do not include paint thickness.

3.3 Physical properties

3.3.1 Camber

Camber (see Figure 1) shall not exceed 10 mm per 2000 mm length.