



SLOVENSKI STANDARD

SIST EN 12940:2004

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Footwear manufacturing wastes - Waste classification and management

Footwear manufacturing wastes - Waste classification and management

Abfälle bei der Schuhproduktion - Abfallklassifizierung und -management

Déchets de fabrication de chaussures - Classification et gestion des déchets

Ta slovenski standard je istoveten z: **EN 12940:2004**

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ICS:

13.030.01	Odpadki na splošno	Wastes in general
61.060	Obuvala	Footwear

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EUROPEAN STANDARD
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Footwear manufacturing wastes - Waste classification and management

Déchets de fabrication de chaussures - Classification et gestion des déchets

Abfälle bei der Schuhproduktion - Abfallklassifizierung und -management

This European Standard was approved by CEN on 1 April 2004.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Foreword

This document (EN 12940:2004) has been prepared by Technical Committee CEN/TC 309 "Footwear", the secretariat of which is held by AENOR.

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of an identical text or by endorsement, at the latest by February 2005, and conflicting national standards shall be withdrawn at the latest by February 2005.

This document supersedes ENV 12940:1999.

This document includes a Bibliography.

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

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Introduction

Waste disposal is increasingly regulated within the European Union. At the same time, waste management costs are increasing. With regards to waste management, the footwear industry needs:

- guidelines in order to better anticipate future regulations and deal with them effectively,
- a tool in order to estimate the effectiveness of the waste management.

This European Standard incorporates such a tool, designed specifically for the footwear industry.

In order to improve the waste management, the footwear manufacturer should perform the following tasks:

- reduce the quantity of waste,
- reuse the waste,
- recycle the waste,
- incinerate and recover energy from the waste,
- treat the waste.

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This document could be used by a company that wishes to implement the EN ISO 14001:1996 management system standard.

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1 Scope

This document specifies the process steps which are involved in the generation of the waste from footwear manufacture and the usual waste management practices. It also establishes a European list of the usual wastes generated during the footwear manufacturing process.

It can be applied to one specific product, a specific group of products, one specific production technology within the factory or to the whole production of a company.

NOTE The nature of such wastes produced will depend on manufacturing processes, the type of shoe and the materials used.

The tool used to evaluate the effectiveness of the waste management is:

- established directly from the production process or waste generated,
- calculated for a specific product, a specific group of products or a specific production technology which shall be defined or the whole production of the company.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

NOTE Attention is drawn to the fact that the terms *waste* and *waste management* are defined in EU Directive 75/442/EEC modified by the EU Directive 91/156/EEC. The term *packaging waste* is defined in EU Directive 94/62/EEC. The term *landfill* is defined in EU Directive 99/31/EC (See annex A).

2.1

process waste waste directly linked with the footwear manufacturing process

2.2

maintenance waste
waste generated in the factories from maintenance processes

2.3

waste management practice
technology, specific treatment or way of management applied to the waste (for example reusing, recycling, incineration, etc.)

NOTE These practices are listed in Table 3.

2.4

test period
consecutive period of production about which all the required data are collected

2.5

waste quantity
for one type of waste, quantity of waste generated during a given test period when manufacturing a specified final product or group of final products

2.6

controlled landfill
landfill which emissions to the environment are controlled

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2.7

special destruction treatment

destruction treatment which is not incineration, recycling nor landfilling

3 Requirements

3.1 Process steps

The footwear manufacturing process steps to take into account to quantify the wastes are given in Table 1.

Table 1 — Footwear manufacturing steps to be taken into account

Parts of the process	Steps to take into account
Storage	storage of raw materials
Design and development	cutting of materials unused samples
Upper manufacture	cutting of upper material cutting of lining material skiving cementing / stitching
Manufacture of other components	cutting of insole material cutting of insock material cutting of sole material sole / heel manufacture or preparation adhesive priming of soles and heels
Assembly	all steps of assembly
Finishing	all steps of finishing
Storage of finished product	warehouse
Maintenance of production equipment	tasks generating wastes

3.2 Waste classification list

The wastes to be taken into account shall be, at least, those specified in Table 2.

Table 2 — Waste classification list

Waste codes	List of possible wastes
	Process wastes
	Upper material cutting waste
	Insole material cutting waste
	Sole material cutting waste
	Injection moulding wastes
	Other
	Dust or sludge (roughing)
	Trimmings
	Other process wastes
080102	Rest of inks, varnishes ... (non halogenated solvent based)
080103	Rest of inks, varnishes ... (water based)
080402	Rest of adhesives (non halogenated solvent based)
080403	Rest of adhesives (water based)
140103	Used solvents (alone or mixed)
200301	Sub-standard shoes
	Packaging wastes
150101	Cardboard packaging: shoe boxes, packing cases, sample boxes, centre tubes from textile rolls
150102	Plastic cones and bobbins
"	Plastic bags and films
"	Jars, tins & drums (plastic) cleaned
"	Jars, tins & drums (plastic) containing < 3% product residue
"	Jars, tins & drums (plastic) containing > 3% product residue
150103	Wooden pallets
150104	Jars, tins & drums (metal) cleaned
"	Jars, tins & drums (metal) containing < 3% product residue
"	Jars, tins & drums (metal) containing > 3% product residue
"	Other metallic packaging waste (aluminium center tubes for textile rolls ...)
	Other wastes (maintenance, etc.)
130100	Hydraulic oil
130200	Motor oil
150102	Damaged or obsolete lasts (plastic)
150201	Used air filters
160205	Out of use equipment
200101	Paper: office, computer
200106	Damaged or obsolete knives, damaged or obsolete lasts (aluminium)
200108	Canteen waste
200301	Wastes similar to domestic waste (drinking cans, workshop sweepings ...)
NOTE In the EU legislative documents, no waste classification is specifically created for the footwear industry: Some wastes from the footwear industry are not listed in the European Waste Catalogue ¹ . CEN/TC 309 will reconsider the coding in this table when the European Waste Catalogue includes wastes regarding specifically the footwear industry.	

1 Decision 2000/532/EC of the Commission of the European Communities.