Bar coding - Transport and handling labels for steel products

Bar coding - Transport and handling labels for steel products

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 606:2004 sisaldab Euroopa standardi EN 606:2004 ingliskeelset teksti. Käesolev dokument on jõustatud 23.11.2004 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 606:2004 consists of the English text of the European standard EN 606:2004. This document is endorsed on 23.11.2004 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This European Standard specifies the requirements for labels containing human readable and bar coded information for fixing to steel products for the purpose of despatch, transport, and reception in accordance with the requirements of ISO 15394. Data elements are specified together with their status, location on the label, the appropriate data identifier and choice of bar code symbology.	**Scope:** This European Standard specifies the requirements for labels containing human readable and bar coded information for fixing to steel products for the purpose of despatch, transport, and reception in accordance with the requirements of ISO 15394. Data elements are specified together with their status, location on the label, the appropriate data identifier and choice of bar code symbology.

ICS 35.040, 35.240.60

Võtmesõnad:

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 606

August 2004

ICS 35.040; 35.240.60

English version

Bar coding - Transport and handling labels for steel products

Codes barres - Etiqettes pour transport et manutention de produits sidérurgiques

Strichcodierung - Etiketten für Transport und Handhabung von Stahlprodukten

This European Standard was approved by CEN on 21 June 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.

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.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Ref. No. EN 606:2004: E

Contents

page

Foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 7

4 Requirements 7
4.1 General 7
4.2 Materials, print and fixing 7
4.3 Active area 7
4.4 Bar coded information 8
4.4.1 Linear bar coded information 8
4.4.2 Two-dimensional bar coded information 8
4.5 Human readable information 9
4.6 Data elements 9
4.6.1 Selection and status 9
4.6.2 Licence plate number 9
4.6.3 Data element titles 10
4.6.4 Data identifiers 10

5 210 mm x 148 mm transport label 10
5.1 General 10
5.2 Linear bar codes 10

6 84 mm wide and 105 mm wide transport labels 16
6.1 General 16
6.2 Active areas 16
6.3 Data elements 16
6.3.1 General 16
6.3.2 Mandatory elements 17
6.3.3 Optional elements 17
6.4 Bar codes 17
6.4.1 Linear bar codes 17
6.4.2 Two dimensional bar codes 17
6.5 Human readable information 17

7 84 mm x 54 mm handling label 23
7.1 General 23
7.2 Mandatory elements 23
7.3 Optional elements 23
7.4 Linear bar codes 23

8 Base label 25
8.1 General 25
8.2 Data element 25
8.3 Linear bar codes 25

Annex A (normative) **Licence plate number** 27
A.1 Scope 27
A.2 Structure 27
A.3 Issuing Agency 27

Annex B (normative) **Data identifiers for licence plate number** 28
B.1 Data identifier ‘1J’ 28

B.2 Data identifier '6J' for transport unit containing multiple entities of like items 29
B.3 Data identifier '5J' for transport unit containing multiple entities of unlike items 29

Annex C (normative) **Complementary product characteristics; Date area 15 in Table 1 ..... 30**
C.1 Data area 15 30
C.2 Data area 15A 30
C.2.1 One line of information 30
C.2.2 Two lines of information 30
C.3 Data area 15B 30
C.4 Data area 15C 31
C.5 Data area 15D 31
C.5.1 Introduction 31
C.5.2 Uncoated flat products in sheet form 31
C.5.3 Uncoated flat products in coil form 31
C.5.4 Long products 31

Annex D (informative) **Reference between data elements in the transport labels and the EDIFACT Despatch Advice Message (DESADV) 32**
D.1 Introduction 32
D.2 Explanation of Table D.1 32

Annex E (informative) **Illustration of transport labels 36**
E.1 Illustration of 210 mm x 148 mm label (not to scale) 36
E.2 Illustration of 105 mm wide label (not to scale) 37
E.3 Illustration of 84 mm x 54 mm handling label (not to scale) 37
E.4 Illustration of Base Labels (not to scale) 38

Annex F (informative) **Trilingual titles for Data elements and Data identifiers 39**
F.1 Data area titles 39
F.2 Data identifiers 39

Bibliography 40

Foreword

This document (EN 606:2004) has been prepared by ECISS/WG11 under control of CEN /TC 225, "AIDC technologies", the secretariat of which is NEN.

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 606:1992.

This document is a development of and replaces the European Pre-standard ENV 606 approved by CEN in August 1992 as a prospective standard for provisional application. That provisional application in the trading of steel products together with the experience in its use and the publication of ISO 15394, provide the basis on which this document is established. This document, therefore, complies with ISO 15394 ‘Bar code and two dimensional symbols for shipping, transport and receiving labels’.

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.

Introduction

In common with most other industrial products, steel products, that is those defined in EN 10079, when despatched by the manufacturer, referred to in the document as the 'supplier', require labelling that will ensure delivery to the correct address of the 'buyer' and allow accurate access to relevant information in the parties' systems to initiate subsequent activities, e.g. recording, storing, handling, transportation, processing, invoicing, etc. The labels specified in this document provide standard elements of identifiable information formatted in standard layouts with bar codes according to standard symbologies.

It is considered that the use of this document will improve efficiency, reduce costs, provide for traceability (e.g. to EN ISO 9001) and minimise the proliferation of label designs. Maximum advantage is gained when such labels provide the physical link in business transactions between the parties using Electronic Data Interchange (EDI) systems allowing faster and accurate input and product transfer procedures and other associated advantages of electronic data processing. An Annex is included mapping those data elements that either shall or may be included on a bar coded label and the despatch advice message (DESADV) according to the EDIFACT directory D96.A.

Steel products are manufactured and delivered in a variety of different shapes, sizes and methods of packaging and transport which can present problems as to the fixing and security of labels. This document specifies the two label formats established previously in ENV 606:1992 which have found acceptance in the market place. Two other transport label formats and two handling label ones are specified providing flexibility as to their formats but with certain mandatory data elements, e.g. licence plate number, and a choice of other data elements depending upon the requirements of the trading parties.

The labels specified in this document are not necessarily associated with any particular steel product form; it is the responsibility of the supplier to select the label most appropriate to the trading parties' requirements.

All labels include the data element 'Licence plate number', that is the unique identification of a transport unit as set out in ISO/IEC 15459 and required in ISO 15394. An Annex in this document sets out the structure of such a licence plate number and the means to obtain the necessary codes.

1 Scope

This document specifies the requirements for labels containing human readable and bar coded information for fixing to steel products for the purpose of despatch, transport, and reception in accordance with the requirements of ISO 15394. Data elements are specified together with their status, location on the label, the appropriate data identifier and choice of bar code symbology.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1556:1998, *Bar coding - Terminology.*

EN 10079:1992, *Definition of steel products.*

EN ISO 216, *Writing papers and certain classes of printed matter - Trimmed sizes - A and B series (ISO 216:1975).*

EN ISO/IEC 15416, *Information technology - Automatic identification and data capture techniques - Bar code print quality test specification - Linear symbols (ISO/IEC 15416:2000).*

EN ISO/IEC 15438:2003, *Information technology - Automatic identification and data capture techniques - Bar code symbology specifications - PDF 417 (ISO/IEC 15438:2001).*

ISO 15394:2000, *Packaging - Bar code and two-dimensional symbols for shipping, transport and receiving labels.*

ISO/IEC 15415, *Information technology - Automatic identification and data capture techniques - Bar code print quality test specification - Two-dimensional symbols.*

ISO/IEC 15417, *Information technology - Automatic identification and data capture techniques – Bar code symbology specification - Code 128.*

ISO/IEC 15418:1999, *Information technology - EAN/UCC Application Identifiers and FACT Data Identifiers and Maintenance.*

ISO/IEC 15434, *Information technology - Transfer syntax for high capacity ADC media.*

ISO/IEC 15459-1:1999, *Information technology - Unique identification of transport units - Part 1: General.*

ISO/IEC 15459-2:1999, *Information technology - Unique identification of transport units - Part 2: Registration procedures.*

ISO/IEC 16022, *Information technology - International symbology specification – Data matrix.*

ISO/IEC 16388, *Information technology - Automatic identification and data capture techniques - Bar code symbology specifications - Code 39.*

ISO/IEC 18004, *Information technology - Automatic identification and data capture techniques - Bar code symbology - QR Code.*

ISO/DIS 19762, *Information technology - Automatic identification and data capture techniques – Harmonized Vocabulary, Part 1 - General terms relating to automatic identification and data capture.*

ANSI MH10.8.2, *Data application identifier standard.*