Ohutusnõuded inimeste transportimiseks mõeldud köisteepaigaldistele. Köied. Osa 8: Köite magnetkatsetus (MRT)

Safety requirements for cableway installations designed to carry persons - Ropes - Part 8: Magnetic rope testing (MRT)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 12927- 8:2004 sisaldab Euroopa standardi EN 12927-8:2004 ingliskeelset teksti.	This Estonian standard EVS-EN 12927- 8:2004 consists of the English text of the European standard EN 12927-8:2004.
Käesolev dokument on jõustatud 21.12.2004 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 21.12.2004 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.
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Käsitlusala: This part of EN 12927 specifies the minimum requirements of MRT equipment and procedures for use in the examination of steel wire ropes used on cableways for passenger transport. Performance requirements and testing of MRT equipment and qualification of personnel engaged in carrying out MRT are also included. This part of EN 12927 does not include requirements relating to the protection of workers.	Scope: This part of EN 12927 specifies the minimum requirements of MRT equipment and procedures for use in the examination of steel wire ropes used on cableways for passenger transport. Performance requirements and testing of MRT equipment and qualification of personnel engaged in carrying out MRT are also included. This part of EN 12927 does not include requirements relating to the protection of workers.
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EUROPEAN STANDARD NORME EUROPÉENNE **EUROPÄISCHE NORM**

EN 12927-8

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English version

Safety requirements for cableway installations designed to carry persons - Ropes - Part 8: Magnetic rope testing (MRT)

Prescriptions de sécurité pour les installations à câbles transportant des personnes - Câbles - Partie 8 : Contrôles non-destructifs par contrôle électromagnétique

Sicherheitsanforderungen für Seilbahnen und Schleppaufzüge des Personenverkehrs - Seile - Teil 8: Zerstörungsfreie Prüfungen

This European Standard was approved by CEN on 23 August 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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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 12927-8:2004) has been prepared by Technical Committee CEN/TC 242 "Safety requirements for passenger transportation by rope", 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 April 2005, and conflicting national standards shall be withdrawn at the latest by April 2005.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This EN 12927 consists of the following parts, under the general title "Safety requirements for cableway installations designed to carry persons – Ropes":

- Part 1: Selection criteria for ropes and their end fixings
- Part 2: Safety factors
- Part 3: Long splicing of 6 strand hauling, carrying-hauling and towing ropes
- Part 4: End fixings
- Part 5: Storage, transportation, installation and tensioning
- Part 6: Discard criteria
- Part 7: Inspection, repair and maintenance
- Part 8: Magnetic rope testing (MRT)

This European Standard forms part of the standards programme adopted by the CEN Technical Board (CEN/BT) in relation to safety requirements for passenger transportation by rope.

This programme comprises the following standards.

- 1) Safety requirements for cableway installations designed to carry persons Terminology
- 2) Safety requirements for cableway installations designed to carry persons General requirements
- 3) Safety requirements for cableway installations designed to carry persons Calculations
- 4) Safety requirements for cableway installations designed to carry persons Ropes
- 5) Safety requirements for cableway installations designed to carry persons Tensioning devices
- 6) Safety requirements for cableway installations designed to carry persons Drive systems and other mechanical equipment
- 7) Safety requirements for cableway installations designed to carry persons Carriers
- 8) Safety requirements for cableway installations designed to carry persons Electrical equipment other than for drive systems

- 9) Safety requirements for cableway installations designed to carry persons Civil engineering works
- 10) Safety requirements for cableway installations designed to carry persons Pre-commissioning inspection, maintenance and operational inspection and checks
- 11) Safety requirements for cableway installations designed to carry persons Recovery and evacuation
- 12) Safety requirements for cableway installations designed to carry persons Operation
- 13) Safety requirements for cableway installations designed to carry persons Quality assurance

Together these form a series of standards regarding design, manufacture, production, maintenance and operation of all installations for passenger transportation by rope.

In respect of ski-tows the drafting of this European Standard has been guided by the works of the International Organisation for transportation by rope (OITAF).

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

Magnetic ropes testing is carried out as a supplement to visual rope inspection and is used to ensure the safe operation of ropes in service, with the advantage that it provides valuable information about the internal condition of the rope.

In the context of this document, MRT equipment is categorised as either electromagnetic or permanent magnetic equipment using magnetic-flux and/or magnetic flux leakage principles and capable of detecting discontinuities and/or changes in metallic cross-sectional area in ferromagnetic wire ropes.

The non-destructive magnetic rope testing (MRT) of ferro-magnetic steel wire ropes is a special field often involving the use of dedicated equipment for the testing of particular types of rope. is a proview of normal way they are the the the theory of the theory of

1 Scope

This part of EN 12927 specifies the minimum requirements of MRT equipment and procedures for use in the examination of steel wire ropes used on cableways for passenger transport.

Performance requirements and testing of MRT equipment and qualification of personnel engaged in carrying out MRT are also included.

This part of EN 12927 does not include requirements relating to the protection of workers.

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 1709 Safety requirements for cableway installations designed to carry persons - Precommissioning inspection, maintenance, operational inspection and checks

prEN 1907:2004, Safety requirements for cableway installations designed to carry persons - Terminology.

EN 12385-2:2002, Steel wire ropes - Safety - Part 2: Definitions, designation and classification.

EN 12927-6, Safety requirements for cableway installations designed to carry persons - Ropes - Part 6: Discard criteria.

EN 12929-1, Safety requirements for cableway installations designed to carry persons - General requirements - Part 1: Requirements for all installations.