

**Lühikeste lülidega tõstekett. Ohutus. Osa 5:  
Tõstetropid. Klass 4**

Short link chain for lifting purposes - Safty. Part 5 -  
Chain slings Grade 4

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 818-5:1999 sisaldab Euroopa standardi EN 818-5:1999 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 23.11.1999 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 818-5:1999 consists of the English text of the European standard EN 818-5:1999.</p> <p>This document is endorsed on 23.11.1999 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> This part of EN 818 specifies the requirements related to safety, methods of rating and testing of single-, two-, three-, four-leg and endless chain slings, assembled by welding, using short link grade 4 medium tolerance lifting chain conforming to prEN 818-3 together with the appropriate range of components of the same grade.</p>	<p><b>Scope:</b> This part of EN 818 specifies the requirements related to safety, methods of rating and testing of single-, two-, three-, four-leg and endless chain slings, assembled by welding, using short link grade 4 medium tolerance lifting chain conforming to prEN 818-3 together with the appropriate range of components of the same grade.</p>
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**English version**

**Short link chains for lifting purposes – Safety**

**Part 5: Chain slings – Grade 4**

Chaînes de levage à maillons courts – Sécurité – Partie 5: Elingues en chaînes – Classe 4	Kurzgliedrige Rundstahlketten für Hebezwecke – Sicherheit – Teil 5: Anschlagketten – Güteklasse 4
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This European Standard was approved by CEN on 1999-04-16.

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.

The European Standards exist 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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
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## Contents

	Page
Foreword	3
Introduction	4
1 Scope	4
2 Normative references	5
3 Terms and definitions	6
4 Hazards	9
5 Safety requirements	10
6 Verification of safety requirements	13
7 Marking	15
8 Manufacturer's certificate	16
9 Information for use	16
Annex A (normative) Alternative method of rating and marking a chain sling for a specific lifting application and not for use in general lifting purposes	17
Annex B (informative) Bases for calculation of working load limits	19
Annex C (informative) Designation system for chain slings - Grade 4	20
Annex D (informative) Identification tags for chain slings	21
Annex ZA (informative) Relationship of this European Standard with EU Directives	22

## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 168 "Chains, ropes, webbing, slings and accessories - Safety", the secretariat of which is held by BSI.

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 November 1999, and conflicting national standards shall be withdrawn at the latest by November 1999.

This European Standard 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 standard.

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.

The other Parts of EN 818 are:

- Part 1: General conditions of acceptance
- Part 2: Medium tolerance chain for chain slings - Grade 8
- Part 3: Medium tolerance chain for chain slings - Grade 4
- Part 4: Chain slings - Grade 8
- Part 6: Chain slings - Specifications for information for use and maintenance to be provided by the manufacturer
- Part 7: Fine tolerance chain for hoists, Grade T (types T, DAT, DT)

This is the first edition of this Part of EN 818.

## Introduction

This European Standard has been prepared to be a harmonized standard to provide one means of complying with the essential safety requirements of the Machinery Directive and associated EFTA regulations.

The extent to which hazards are covered is indicated in the scope. In addition, lifting equipment shall conform as appropriate to EN 292 for hazards which are not covered by this standard.

## 1 Scope

This Part of EN 818 specifies the requirements related to safety, methods of rating and testing of single-, two-, three-, four-leg and endless chain slings, assembled by welding, using short link grade 4 medium tolerance chain conforming to EN 818-3 together with the appropriate range of components of the same grade in accordance with prEN 1677-5 and 6. These chain slings are intended for lifting objects, materials or goods.

NOTE: Instructions for use and maintenance of chain slings are covered by prEN 818-6.

The hazards covered by this Part of the standard are identified in clause 4.

Annex A gives an alternative method of rating and marking a chain sling for a specific lifting application

Annex B contains the bases for calculation of working load limits.

Annex C gives an example of a designation system for chain slings.

Annex D gives an example of identification tags for chain slings.

Annex ZA gives the relationship with EU Directives.

## 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.

EN 292-1	Safety of machinery - Basic concepts - General principles for design Part 1: Basic terminology, methodology
EN 292-2: 1991 /A1: 1995	Safety of machinery - Basic concepts - General principles for design Part 2: Technical principles and specifications
EN 818-1	Short link chain for lifting purposes - Safety Part 1: General conditions of acceptance
EN 818-3	Short link chain for lifting purposes - Safety Part 3: Medium tolerance chain for chain slings - Grade 4
prEN 818-6	Short link chain for lifting purposes - Safety Part 6: Chain slings - Specification for information for use and maintenance to be provided by the manufacturer
prEN 1677-5	Components for slings - Safety Part 5: Forged steel lifting hooks with latch - Grade 4
prEN 1677-6	Components for slings - Safety Part 6: Links - Grade 4
EN ISO 9001: 1994	Quality systems - Model for quality assurance in design/development, production, installation and servicing (ISO 9001:1994)
EN 1050:1996	Safety of machinery - Principles for risk assessment