Load restraint assemblies on road vehicles - Safety - Part 1: Calculation of lashing forces

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EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 12195-1:2004 sisaldab Euroopa standardi EN 12195-1:2003 ingliskeelset teksti. Käesolev dokument on jõustatud 18.05.2004 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 12195-1:2004 consists of the English text of the European standard EN 12195-1:2003. This document is endorsed on 18.05.2004 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 Part of prEN 12195 specifies acceleration coefficients for surface transport. It also gives methods of calculation of lashing forces acting on goods on load carriers, lorries, trailers and swap bodies, either on road, on vessels or by rail and/or combinations thereof for different types of load and different types of lashing. It excludes the hump shunting during railway transport (web lashings see EN 12195-2, lashing chains see EN 12195-3, wire lashing ropes see prEN 12195-4)	**Scope:** This Part of prEN 12195 specifies acceleration coefficients for surface transport. It also gives methods of calculation of lashing forces acting on goods on load carriers, lorries, trailers and swap bodies, either on road, on vessels or by rail and/or combinations thereof for different types of load and different types of lashing. It excludes the hump shunting during railway transport (web lashings see EN 12195-2, lashing chains see EN 12195-3, wire lashing ropes see prEN 12195-4)

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Võtmesõnad: calculation, lashing forces, load restraint assemblies, safety

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Load restraint assemblies on road vehicles - Safety - Part 1: Calculation of lashing forces

Dispositifs d'arrimage des charges à bord des véhicules routiers - Sécurité - Partie 1: Calcul des tensions d'arrimage

Ladungssicherungseinrichtungen auf Straßenfahrzeugen - Sicherheit - Teil 1: Berechnung von Zurrkräften

This European Standard was approved by CEN on 1 September 2003.

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

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

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Foreword

This document (EN 12195-1:2003) 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 June 2004, and conflicting national standards shall be withdrawn at the latest by June 2004.

This European Standard was prepared by WG 6 "Load restraint assemblies" of CEN/TC 168 "Chains, ropes, webbing, slings and accessories", the secretariat of which is held by BSI.

This European Standard has been prepared under a Mandate given to CEN by the European Commission and the European Free Trade Association.

The parts of EN 12195 “Load restraint assemblies on road vehicles – Safety” are:

Part 1: Calculation of lashing forces

Part 2: Web lashing made from man-made fibres

Part 3: Lashing chains

Part 4: Lashing steel wire ropes

Annex A to Annex D are informative.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This Part of EN 12195 has been prepared to provide one means of conforming with the essential safety requirements to calculate lashing forces for load restraint assemblies to be used in the Common European Market and thus enabling the free movement of goods.

The extent to which hazards are covered is indicated in the scope of this standard. In addition, load restraint assemblies for securing of loads on vehicles should conform as appropriate to the other parts of this standard and EN 292 for hazards which are not covered by this standard.

1 Scope

This Part of EN 12195 specifies acceleration coefficients for surface transport. It also gives methods of calculation of lashing forces acting on goods on load carriers, lorries, trailers and swap bodies, either on road, on vessels or by rail and/or combinations thereof for different types of load and different types of lashing. It excludes the hump shunting during railway transport (web lashings see EN 12195-2, lashing chains see EN 12195-3, wire lashing ropes see prEN 12195-4).

The lashing forces to be chosen for calculation in this EN 12195-1 are static forces produced by tensioning of lashings and dynamic forces, which act on the lashing as a reaction of the load movements.

Instructions for the application of calculations are also specified.

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 12195-2:2000, *Load restraint assemblies on road vehicles — Safety — Part 2: Web lashing made from man-made fibres.*

EN 12195-3, *Load restraint assemblies on road vehicles — Safety — Part 3: Lashing chains.*

prEN 12195-4, *Load restraint assemblies on road vehicles — Safety — Part 4: Lashing steel wire ropes.*

3 Terms, definitions, symbols, units and abbreviations

For the purposes of this European Standard, the following terms, definitions, symbols, units and abbreviations apply.

3.1 General terms and definitions

3.1.1
load restraint assembly
systems and devices for the securing of loads

[EN 12195-2:2000]