

Intermodal loading units and commercial vehicles -
Lashing points for cargo securing - Minimum
requirements and testing

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 12640:2019 sisaldab Euroopa standardi EN 12640:2019 ingliskeelset teksti.	This Estonian standard EVS-EN 12640:2019 consists of the English text of the European standard EN 12640:2019.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 11.12.2019.	Date of Availability of the European standard is 11.12.2019.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 55.180.99

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardikeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardikeskusega:
Koduleht www.evs.ee; telefon 605 5050; e-post info@evs.ee

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation:

Homepage www.evs.ee; phone +372 605 5050; e-mail info@evs.ee

EUROPEAN STANDARD

EN 12640

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2019

ICS 55.180.99

Supersedes EN 12640:2000

English Version

**Intermodal loading units and commercial vehicles -
Lashing points for cargo securing - Minimum requirements
and testing**

Ladungssicherung auf Straßenfahrzeugen - Zurrpunkte
an Nutzfahrzeugen zur Güterbeförderung -
Mindestanforderungen und Prüfung

This European Standard was approved by CEN on 23 September 2019.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Requirements	6
4.1 General	6
4.2 Design requirements of single lashing points	6
4.3 Design requirements of multi-point lashing systems	6
4.4 Strength of the lashing points	7
4.5 Number and layout of the lashing points	7
4.5.1 Number of lashing point pairs	7
4.5.2 Arrangement of lashing point pairs	8
4.6 Lashing points in the front wall	8
4.7 Optional single lashing points or multi-point lashing systems	8
5 Verification	8
6 Testing	8
7 Marking, identification and user instructions	9
8 Maintenance	10
Annex A (normative) Test certificate of lashing points tested according to EN 12640	11
Annex B (informative) Test report	12
Bibliography	13

European foreword

This document (EN 12640:2019) has been prepared by Technical Committee CEN/TC 119 “Intermodal Loading Units and Cargo Securing (ILUCS)”, the secretariat of which is held by DIN.

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 2020, and conflicting national standards shall be withdrawn at the latest by June 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12460:2000. The main technical changes are:

- a) in clause 3, the terms and definitions were updated;
- b) in clause 4, the following content was added:
 - vehicles GVM under 3.500 kg;
 - lashing angles were updated;
 - defined reference hook;
 - strength of lashing points updated;
 - number and arrangement of lashing points updated.
- c) in clause 5, verifications were updated;
- d) in clause 6, testing was updated;
- e) in clause 7, marking was updated;
- f) the following clause and Annexes are new:
 - clause 8;
 - Annex A;
 - Annex B.

Annex A is normative and Annex B is informative.

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

1 Scope

This document specifies the minimum requirements and test methods for lashing points for cargo securing on commercial vehicles and intermodal loading units for cargo transport.

This document does not apply to:

- Vehicles and intermodal loading units manufactured before publication of this standard;
- Vehicles and intermodal loading units designed and constructed exclusively for the transport of bulk materials;
- Vehicles and intermodal loading units designed and constructed exclusively for the transport of specific cargo with particular securing requirements;
- Vehicles (delivery vans) in conformance to ISO 27956;
- ISO series 1 freight containers.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

CTU

Cargo Transport Unit

commercial vehicle and intermodal loading unit

3.2

cargo securing devices

components, which are form-fit, and / or force-fit acting in combination with the cargo and the vehicle or the vehicle structure (e.g. plug stakes/ stanchions, transverse beams, wedges)

3.3

lashing angles

3.3.1

longitudinal lashing angle β_x

angle between lashing device and longitudinal axis (x-axis) of a CTU in the plane of the loading area

Note 1 to entry: See Figure 1.