

Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

**Joint Meeting of the RID Committee of Experts and the
Working Party on the Transport of Dangerous Goods**

Geneva, 17–27 September 2019

Item 5 (b) of the provisional agenda

**Proposals for amendments to RID/ADR/ADN:
new proposals**

27 June 2017

IRS 50592

1st edition, 2019-1

**Intermodal Transport Units (other than semi-trailers) for
vertical transshipment and suitable for carriage on wagons -
Minimum requirements**

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.

1. UIC Leaflets

International Union of Railways (UIC)

UIC Leaflet 592-3: Large containers (CT), swap bodies (CM) and transport frames for horizontal transshipment (CA) - Standard report on acceptance tests, 2nd edition, January 1998

2. International Railway Solution (IRS)

International Union of Railways (UIC)

IRS 50571-4: Wagons for combined transport - Vertical transshipment - Characteristics, 1st edition, April 2018

IRS 50596-6: Conditions for coding intermodal loading units in combined transport, combined transport lines and wagons, 1st edition, July 2018

3. European Standards^[1] European Committee for Standardization (CEN)

EN 283: Swap bodies - testing, 1991^[1]
EN 284: Swap bodies. Non-stackable swap bodies of class C. Dimensions and general

requirements, 2006^[1]
EN 452: Swap bodies. Swap bodies of Class A. Dimensions and general requirements, 1995

EN 1432: Swap bodies. Swap tanks. Dimensions, requirements, test methods, operating conditions, 1997

EN 12195-1: Load restraint assemblies on road vehicles. Safety. Part 1: Calculation of lashing forces, 2010

EN 12406: Swap bodies. Thermal swap bodies of class C. Dimensions and general requirements, 1999

EN 12410: Swap bodies. Thermal swap bodies of class A. Dimensions and general requirements, 1999

EN 12640: Securing of cargo on road vehicles. Lashing points on commercial vehicles for goods transportation. Minimum requirements and testing, 2000

EN 12641-1: Swap bodies and commercial vehicles. Tarpaulins. Part 1: Minimum requirements, 2005

EN 12641-2: Swap bodies and commercial vehicles. Tarpaulins. Part 2: Minimum requirements for curtainsiders, 2006

EN 12642: Securing of cargo on road vehicles. Body structure of commercial vehicles. Minimum requirements, 2016

EN 13044-2: Intermodal loading units. Marking. Part 2: Markings of swap bodies related to rail operation, 2011

EN 13853: Swap bodies for combined transport - Stackable swap bodies type C 745- S16 - Dimensions, design requirements and testing, 2003

EN 14993: Swap bodies for combined transport - Stackable swap bodies type A 1371 - Dimensions, design requirements and testing, 2005

4. International Standards^[17]International Organization for Standardization (ISO)

ISO 668: Series 1 freight containers - Classification, dimensions and ratings, 2013 ISO 1161: Series 1 freight containers - Corner fittings - Specification, 2016

ISO 1496-1: Series 1 freight containers - Specification and testing - Part 1: General cargo containers for general purposes, 1990

ISO 1496-2: Series 1 freight containers - Specification and testing - Part 2: Thermal containers, 2008

ISO 1496-3: Series 1 freight containers - Specification and testing - Part 3: Tank containers for liquids, gases and pressurized dry bulk, 1995

ISO 1496-4: Series 1 freight containers - Specification and testing - Part 4: Non- pressurized containers for dry bulk, 1991

ISO 1496-5: Series 1 freight containers - Specification and testing - Part 5: Platform and platform-based containers, 1991

ISO 6346: Freight containers - Coding, identification and marking, 1995

Introduction

The present leaflet lists all the intermodal transport units (ILUs) other than semi-trailers which may be carried by rail.

It lists the references for standardised ILUs and sets minimum requirements for specific ILUs.

Inventory of ILUs

The following table lists the standards and requirements to be complied with for each type of ILU (see Glossary; for references to standards see Bibliography and points in the present leaflet).

	Type	Dimensions and maximum loads	Markings	Strength ^a
1.1.	ISO container	ISO 668 with maximum load equal or less 36t	ISO 6346	ISO 1496-1 to 5
1.2.	Class C ILUs	Point 5	Point 10	UIC Leaflet 592
1.3.	Stackable class C ILUs	EN 13853	Point 10	EN 13853, UIC Leaflet 592
1.4.	Refrigerated class C ILUs	EN 12406	Point 10	EN 12406, UIC Leaflet 592
1.5.	Class A ILUs	EN 452	Point 10	EN 452, UIC Leaflet 592
1.6.	Stackable class A ILUs	EN 14993	Point 10	EN 14993, UIC Leaflet 592
1.7.	Refrigerated class A ILUs	EN 12410	Point 10	EN 12410, UIC Leaflet 592
1.8.	Tank ILUs	EN 1432 / point 5.3 with maximum load equal or less 36t	Point 10	EN 1432
1.9.	Intermediate frame	Bilateral/multilateral agreement	Bilateral/multilateral agreement	UIC Leaflet 592
1.10.	ILUs which do not fall under points 1.2 to 1.9 but whose dimensions allow them to be coded on the basis of <i>UIC Leaflet 596-6</i>	Must be suitable for carriage on wagons with compatibility code C	Point 10	UIC Leaflet 592
1.11.	ILUs with a base width > 2600 mm	Appendix A	Point 10 ^b	UIC Leaflet 592
1.12.	ILUs which, due to their dimensions or weight, may not be freely loaded onto carrying wagons with compatibility code C	Appendix B	Point 7	UIC Leaflet 592
1.13	Hybrid ILUs	Appendix H Point 7	Point 10	UIC Leaflet 592

	Non-ISO ILUs with upper corner fittings but no grab-handling grooves			
1.14.	Non-standardised ILUs carried stacked	Appendix J	Point 10	UIC Leaflet 592

- a. Demonstration of strength is recognised by means of a CSC plate and/or code plate.
 - b. Specific marking.
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