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APTU Uniform Rules (Appendix F to COTIF 1999)

Uniform Technical Prescriptions (UTP) applicable to Rolling Stock, subsystem

FREIGHT WAGONS - (UTP WAG) - ANNEX PP

VEHICLE IDENTIFICATION

Explanatory note:

The texts of this UTP which appear across two columns are identical to corresponding texts of the European Union regulations. Texts which appear in two columns differ; the left-hand column contains the UTP regulations, the right-hand column shows the text in the corresponding EU regulations. The text in the right-hand column is for information only and is not part of the OTIF regulations.

OTIF UTP

Corresponding text in EU regulations 1

EU ref. 2

PP.0 GENERAL REMARKS

Part 0

PP.0.1 THIS ANNEX DESCRIBES THE

number and linked marking applied in a visible manner on the vehicle to identify it uniquely during operation. It does not describe other numbers or markings eventually engraved or fixed in a permanent manner on the chassis or the main components of the vehicle during its construction.

Note: This Annex contains the provisions applicable to freight wagons. In some tables are included information concerning other types of railway vehicles; that information shall not be considered as regulation made applicable by this Annex.

PP.02 STANDARD NUMBER AND LINKED ABBREVIATIONS

Each railway vehicle receives a number consisting of 12 <u>digits</u> (figures) called "standard number" with the following structure:

Type of rolling stock	Type of vehicle and indication of the interopera- bility ability [2 digits]	Country in which the vehicle is registered [2 digits]	Technical characteristics [4 digits]	Serial number [3 digits]	Self- checking digit [1 digit]
Wagons	00 to 09 10 to 19 20 to 29 30 to 39 40 to 49 80 to 89 [details in PP.6]	01 to 99 [details in PP.4]	0000 to 9999 [details in PP.9]	001 to 999	0 to 9 [details in PP.3]

Annex P of TSI OPE (Operations and management) – Commission Decision 2010/640/EU published in the EU Official Journal L280 on 26.10.2010 as amended by draft Commission Decision on a merged TSI OPE (HS+CR) that passed RISC on its meeting October 2010 and is expected to enter into force on 01.01.2012.

 $^{^2}$ If no EU reference is indicated, it means that the chapter/section number is the same as in the OTIF text.



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	1				
Type of rolling	Type of vehicle	Country	Technical	Serial	Self-
stock	and indication of	in which the	characteristics	number	checking
	the interopera-	vehicle	[4 digits]	[3 digits]	digit
	bility ability	is registered			[1 digit]
	[2 digits]	[2 digits]			
	50 to 59	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
Hauled	60 to 69		0000 to 9999	004 += 000	
passenger vehicles	70 to 79		[details in PP.10]	001 to 999	
verlicies	[details in PP.7]				
		04 +- 00	0000001 to	8999999	0 to 9
		01 to 99	[the meaning of	these figures is	[details in
Tractive rolling		[details in PP.4]	defined by the Contracting States,		PP.3]
stock	90 to 99		eventually by bilat	eral or multilateral	
	[details in PP.8]		agreement]		
Special			9000 to 9999		
vehicles			[details in PP.11]	001 to 999	
					l

In a given country, the 7 digits of technical characteristics and serial number are sufficient to identify uniquely a vehicle inside each group of wagons, hauled passenger vehicles, tractive rolling stock³ and and special vehicles⁴.

Alphabetical markings complete the number:

- (a) markings linked to the interoperability ability (details in section PP.5);
- (b) abbreviation of the country in which the vehicle is registered (details in section PP.4);
- (c) keeper⁵ (details in section PP.1);
- (d) abbreviations of the technical characteristics (details in section PP.13 for hauled passenger vehicles, section PP.12 for wagons and Section PP.14 for special vehicles).

ALLOCATION OF NUMBER PP.03

2010/ 640/EU

The

Unique Vehicle Number / Standard number has to be allocated according to the rules laid down in Article 14 § 1 of ATMF.

European Vehicle Number

(laid down in Commission Decision 2007/756/EC of 9 November 2007 adopting a common specification of the national vehicle register provided for under Articles 14(4) and (5) of Directives 96/48/EC and 2001/16/EC).

The

Unique Vehicle Number / Standard number shall be changed when it does not reflect the interoperability capability or technical characteristics according to this Annex due to technical modifications of the vehicle. Such technical modifications may require a new technical admission.

European Vehicle Number

authorisation for placing in service according to Articles 20-25 of Interoperability Directive 2008/57/EC.

For tractive rolling stock, the number has to be unique in a given country with 6 digits.

For special vehicles, the number has to be unique in a given country with the first digit and the 5 last digits of the technical characteristics

A vehicle keeper is the person, who being the owner or having the right to dispose of it, exploits a vehicle economically in a permanent manner as a means of transport and is registered as such in the National Vehicle Register.



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ROLLING STOCK FREIGHT WAGONS - ANNEX PP

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Part 1

PP.1 VEHICLE KEEPER MARKING (VKM)

PP.1.1 DEFINITION OF THE VEHICLE KEEPER MARKING

A Vehicle Keeper Marking (VKM) is an alphabetic code, consisting of 2 to 5 letters⁶. A VKM is inscribed on <u>each</u> side of the rail vehicle, near the Unique Vehicle Number / Standard number. | European Vehicle Number.

The VKM denominates the vehicle keeper as registered in

a National Vehicle Register. the Rolling Stock Register.

A VKM is unique and valid in all countries covered by this

UTP (i.e. the OTIF Contracting States)

and all countries that enter into an agreement that involves the application of the system of vehicle numbering and Vehicle Keeper Marking as described in this UTP.

PP.1.2 FORMAT OF THE VEHICLE KEEPER MARKING

The VKM is a representation of the full name or an abbreviation of the vehicle keeper, if possible in a recognisable manner. All 26 letters of the Latina alphabet may be used. The letters in the VKM are written in capitals. Letters that do not stand for first letters of words in the keeper's name may be written in lower case. For checking uniqueness, the letters written in lower case will be taken as written in capitals.

Letters may contain diacritical signs⁷. Diacritical signs used by these letters are ignored for checking uniqueness.

For vehicles kept by keepers that reside in a country that does not use the Latin alphabet, a translation letter by letter of the VKM in its own alphabet may be applied behind the VKM separated from it by a slash-sign ("/"). This translated VKM is disregarded for checking uniqueness and other data-processing purposes.

PP.1.3 EXEMPTIONS FOR USING A VEHICLE KEEPER MARKING

A Contracting State

Member States

may decide to apply the following exemptions:

A VKM is not required for the vehicles whose numbering system does not follow the present

Annex PP TSI

(cf. part 0, point 2). Nevertheless, adequate information about the identity of the vehicle keeper has to be provided to the organisations involved in their operation over networks to which this

Annex PP TSI

applies.

When the full name and address information is inscribed on the vehicle, a VKM is not required for:

- vehicles of keepers with such a limited vehicle fleet that this does not warrant the use of a VKM;
- specialised vehicles for infrastructure maintenance.

(not relevant to international traffic)

A VKM is not required for locomotives, multiple units and passenger vehicles

Digits, spaces and other signs than letters are not allowed. For NMBS/SNCB, the use of an encircled single letter B can be continued. Diacritical marks are "accent-signs", such as in À, Ç, Ö, Č, Ž, Å etc. Special letters such as Ø and Æ will be represented by a single letter; in tests for uniqueness Ø is treated as O and Æ as A.



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Corresponding text in EU regulations ¹ used in national traffic only, when:

- they carry their keeper's logo and that logo contains the same and well recognisable letters as the VKM;
- they carry a well recognisable logo that has been accepted by the competent national authority as an adequate equivalent for the VKM.

When a company logo is applied in addition to besides the application of a VKM, only the VKM is valid and the logo is disregarded.

PP.1.4 PROVISIONS ABOUT ALLOCATION OF VEHICLE KEEPER MARK-INGS

A vehicle keeper can be issued more than one VKM, in case:

- the vehicle keeper has a formal name in more than one language,
- a vehicle keeper has good cause to distinguish between separate vehicle fleets within his organisation.

A single VKM can be issued for a group of companies:

- that belong to single corporate structure (e.g. holding structure),
- that has mandated a separate, single legal entity for handling all issues on their behalf, in which event the legal entity is the keeper.

PP.1.4 REGISTER OF VEHICLE KEEPER MARKINGS (VKM) AND PROCE-DURE FOR ALLOCATION

The register of VKM is public and updated on a real time basis.

It is a joint register set up in accordance with an agreement between the Secretary General and ERA, see "Rules for registration of a VKM" on the OTIF website (www.otif.org) under Technology/Registers.

An application for a VKM is filed with the applicant's competent national authority and forwarded to the central body.

The central body is formed jointly by the Secretary General and ERA. If the applicant has his place of business in a State which does <u>not</u> apply EU law, the central body is the Secretary General. The Application Form included in the above-mentioned Rules shall be used.

A VKM can be used only after publication by the central body.

i.e. on the OTIF and ERA websites.

The National Authorities and the Secretary General (or the ERA) may refuse the registration of a requested VKM if the letter combination might lead to confusion or deception. In this case a justified decision shall be issued.

The holder of a VKM must inform the competent national authority when he ends the use of a VKM, and the competent national authority will forward the information to the central



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Part 2

body.

Secretary General.

ERA.

A VKM will then be revoked once the keeper has proved that the marking has been changed on all vehicles concerned. It will not be reissued for 10 years, unless it is reissued to the original holder or at his request to another holder.

A VKM can be transferred to another holder, which is the legal successor to the original holder. A VKM stays valid when the VKM's holder changes his name to a name that does not bear resemblance to the VKM.

?? The first list of VKM will be drafted using existing railway company abbreviations.

The VKM will be applied to all new build wagons after entry into force of the UTP WAG. relevant TSIs.

Existing wagons will have to be brought in compliance with the VKM marking by 31 December 2013. In case of inconsistency between the VKM marked on the vehicle and the data registered in the NVR, the NVR-registration supersedes.

PP.2 INSCRIPTION OF THE NUMBER AND LINKED ALPHABETI-CAL MARKING ON THE BODYWORK

PP.2.1 GENERAL ARRANGEMENTS FOR EXTERNAL MARKINGS

The capital letters and figures making up the marking inscriptions shall be at least 80 mm in height, in a sans serif font type of correspondence quality. A smaller height may only be used where there is no option but to place the marking on the sole bars.

The marking is placed not higher than 2 metres above rail level.

PP.2.2 WAGONS

The marking shall be inscribed on the wagon bodywork in the following manner (examples):

	*			
21 TEN-GE	: 31 TEN-GE	23 RIV	43 TEN-CW	(profile G2)
85 <u>CH</u> -SBB	72 <u>SRB</u> -	85 <u>CH</u> -SBB	85 <u>CH</u> -SBB	:
7369 551-5	0691 232-1	7369 005-0	2775 100-	:
Zcs	Tanoos	Zcs	Habbis	<u> </u>
23 TEN	31 TEN	33 TEN	43	(In this case without VKM, full
80 <u>D</u> -RFC	80 <u>D</u> -DB	84 NL-ACTS	87 <u>F</u>	name and address information is inscribed on the vehicle);
7369 553-4	0691 235-2	4796 100-8	4273 361-3	this option has limited validity,
Zcs	Tanoos	Slpss	Laeks	see last paragraph of PP 1.4

For wagons whose bodywork does not offer a large enough area for this type of arrangement, particularly in the case of flat wagons, the marking shall be arranged as follows:

01 87 3320 644-7 TEN F-SNCF Ks

When one or more index letters with a national definition are inscribed on a wagon, this national marking (in the example xy) must be shown after the international letter marking and separated from it by a hyphen as follows:

01 87 3320 644-7 TEN F-SNCF Ks-xy 2010/ 640/EU



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Corresponding text in EU regulations 1

EU ref. 2

PP.3 RULES FOR THE DETERMINATION OF THE CHECK-DIGIT Part 3 (DIGIT 12)

The check-digit is determined in the following manner:

- the digits in the even positions of the basic number (counting from the right) are taken at their own value;
- the digits in the odd positions of the basic number (counting from the right) are multiplied by 2;
- the sum formed by the digits in even position and by all the digits which constitute the partial products obtained from the odd positions is then established;
- the lastunits digit of this sum is retained;
- the complement required to bring the <u>lastunits</u> digit to 10 forms the check-digit; should this <u>lastunits</u> digit be nought, then the check-digit will also be nought.

Examples

1 Let the basic number be 3 3 8 4 4 7 9 6 1 0 0

Multiplication factor 2 1 2 1 2 1 2 1 2 1 2 1 2

6 3 16 4 8 7 18 6 2 0 0

Sum: 6 + 3 + 1 + 6 + 4 + 8 + 7 + 1 + 8 + 6 + 2 + 0 + 0 = 52

The lastunits digit of this sum is 2.

The check-digit number will therefore be 8 and the basic number thus becomes the registration number 33 84 4796 100 - 8.

Sum: 6 + 1 + 1 + 0 + 1 + 6 + 3 + 4 + 0 + 2 + 9 + 1 + 6 = 40

The lastunits digit of this sum is 0.

The check-digit number will therefore be 0 and the basic number thus becomes the registration number 31 51 3320 198 - 0.

PP.4 CODING OF THE COUNTRIES IN WHICH THE VEHICLES Part 4 ARE REGISTERED (DIGITS 3-4 AND ABBREVIATION)

The Information relating to third countries is given for information purposes only.

Countries	Alpha- betical country code ³	Numerical country code	Companies concerned by the square brackets in part 6 and part 7 ⁴
Albania	AL	41	HSh
Algeria	DZ	92	SNTF
Armenia	AM ¹	58	ARM
Austria	Α	81	ÖBB
Azerbaijan	AZ	57	AZ
Belarus	BY	21	BC
Belgium	В	88	SNCB/NMBS
Bosnia- Herzegovina	BIH	44	ŽRS
		50	ŽFBH
Bulgaria	BG	52	BDZ, SRIC
China	RC	33	KZD
Croatia	HR	78	HŽ
Cuba	CU ¹	40	FC

Countries	Alpha- betical country code ³	Numerical country code	Companies concerned by the square brackets in part 6 and part 7 ⁴
Lohanan	RL	98	CEL
Lebanon		90	CEL
Liechtenstein	LIE		
Lithuania	LT	24	LG
Luxembourg	L	82	CFL
Macedonia (Former Yugoslav Republic of)	MK	65	CFARYM (MŽ)
Malta	M		
Moldova	MD¹	23	CFM
Monaco	MC		
Mongolia	MGL	31	MTZ
Morocco	MA	93	ONCFM
Netherlands	NL	84	NS
North Korea	PRK ¹	30	ZC
Norway	N	76	NSB, JBV
-			•



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Countries	Alpha-	Numerical	Companies
Countino	betical	country	concerned
	country	code	by the square
	code ³	0000	brackets
			in part 6 and
			part 7 ⁴
Cyprus	CY CZ		
Czech	CZ	54	ČD
Republic			
Denmark	DK	86	DSB, BS
Egypt	ET	90	ENR
Estonia	EST	26	EVR
Finland	FIN	10	VR, RHK
France	F	87	SNCF, RFF
Georgia	GE	28	GR
Germany	D	80	DB, AAE ²
Greece	GR	73	CH
Hungary	Н	55	MÁV,
			GySEV/ROeEE ²
Iran	IR	96	RAI
Iraq	IRQ ¹	99	IRR
Ireland	IRL	60	CIE
Israel	IL	95	IR
Italy	I	83	FS, FNME ²
Japan	J	42	EJRC
Kazakhstan	KZ	27	KZH
Kyrgyzstan	KS	59	KRG
Latvia	LV	25	LDZ
Montenegro	MNE	62	<mark>JŽ</mark> ?

-			
Countries	Alpha-	Numerical	Companies
	betical	country	concerned
	country	code	by the square
	code ³		brackets
			in part 6 and
			part 7⁴
Poland	PL	51	PKP
Portugal	Р	94	CP, REFER
Romania	RO	53	CFR
Russia	RUS	20	RZD
Serbia	SRB	72	ŽS
Slovakia	SK	56	ŽSSK, ŽSR
Slovenia	SLO	79	SŽ
South Korea	ROK	61	KNR
Spain	Е	71	RENFE
Sweden	S	74	GC, BV
Switzerland	CH	85	SBB/CFF/FFS,
			BLS ²
Syria	SYR	97	CFS
Tajikistan	TJ	66	TZD
Tunisia	TN	91	SNCFT
Turkey	TR	75	TCDD
Turkmenistan	TM	67	TRK
Ukraine	UA	22	UZ
United	GB	70	BR
Kingdom			
Uzbekistan	UZ	29	UTI
Vietnam	VN^1	32	DSVN

- (1) Codes to be confirmed.
- (2) Until the evolutions indicated in point 3 of the general remarks come into force, these companies can use the codes 43 (GySEV/ROeEE), 63 (BLS), 64 (FNME), 68 (AAE). The period of updating will then be defined together with the concerned Contracting States.
- (3) According to the alphabetical coding system described in Appendix 4 to the 1949 convention and Article 45(4) of the 1968 convention on road traffic.
- (4) Companies who, at the time of coming into force, were members of UIC or OSJD and used the described country code as company code.

PP.5 ALPHABETICAL MARKING OF THE INTEROPERABILITY Part 5 CAPABILITY

"TEN": Wagon which

- 1) fully complies with all relevant UTPs (and RID if applicable) in their version in force at the moment of the technical admission and has been admitted in all OTIF Contracting States (= OTIF Member States that apply APTU and ATMF) in accordance with ATMF Article 6 § 3, or
- 2) is subject to ATMF Article 3a § 1 (i.e. authorised according to EU law according to Article 22(1) and 23(1) of Directive

"TEN": Vehicle which complies with the following conditions:

- it complies with all relevant TSIs which are in force at the moment of placing in service and has been authorised to be placed in service according to Article 22(1) of Directive 2008/57/EC;
- it is provided with an authorisation valid in all Member States in accordance with Article 23(1) of Directive

If the UTP contains "open points" related to the wagon's compatibility with infrastructure or if the wagon is subject to a specific case or not fully UTP compliant, it shall be admitted according to ATMF Article 6 § 4; it will instead of TEN need the grid marking B.33 to indicate in which States the wagon has been admitted.

The moment of admission is the date when the Certificate is issued.



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2008/57/EC);

or

"TEN-GE": In addition to the TEN symbol, the GE indicates that the wagon is subject to section 7.6.4 (Passe-partout) of the UTP WAG; the wagon can "Go Everywhere" on 1435 mm networks, except in the UK;

"TEN-CW": In addition to the TEN symbol, the CW indicates that the wagon is Compatible With a GE wagon and meet the criteria a) and e) in UTP WAG section 7.6.4 (i.e. complies with all the additional provisions for wagons subject to section 7.6.4), but does not comply with one or more of the criteria b), c) or d) in UTP WAG section 7.6.4 (e.g. has a profile bigger than G1, and/or has another trackgauge than 1435 mm and/or has an inner distance between adjacent axles exceeding 17500 mm); in that case the appropriate marking(s) in EN 15877-1:2011 shall indicate the parameter(s) that differ: track gauge, profile gauge, maximum inner distance between adjacent axles, and the grid indicating the State(s) where the wagon is admitted, etc.;

"RIV": Wagon meets the regulations of the railway Technical Unity (TU) and the obligatory provisions of the applicable leaflets in the UIC Code, including the provisions of the RIV 2000 agreement in its version 1 January 2004. NB.: The RIV marking is only valid for wagons subject to the transitional provisions in Article 19 of ATMF;

Corresponding text in EU regulations 1 2008/57/EC.

EU ref. 2

"PPV/PPW": Vehicle which complies with PPV/PPW or PGW agreement (inside OSJD States) (original: PPV/PPW: ППВ (Правила пользования вагонами в международном сообщении; PGW: Правила Пользования Грузовыми Вагонами)

Notes:

(a) Wagons marked

TEN-GE (or PPV/PPW or on existing wagons RIV)

TEN [not equivalent to RIV and therefore not backward compatible]

correspond to coding 0 to 3 of the first digit in the vehicle number specified in section PP.6. Wagons marked TEN-GE shall correspond to 2 or 3 as the first digit.

(b) Wagons which are not

admitted

authorised

for operation in all

Member States

Contracting States

need a marking indicating the States where they have been authorised.

The list of admitting/authorising States should be marked according to one of the following drawings, where D stands for the State who has granted the first admission/authorisation (in the given example, Germany) and F stands for the second admitting/authorising State (in the given example, France). The States are codified in accordance with section PP4. This may cover vehicles which are

UTP WAG compliant but admitted according to ATMF Article 6 § 4 and wagons which are not compliant to the UTP TSI compliant or which are not.



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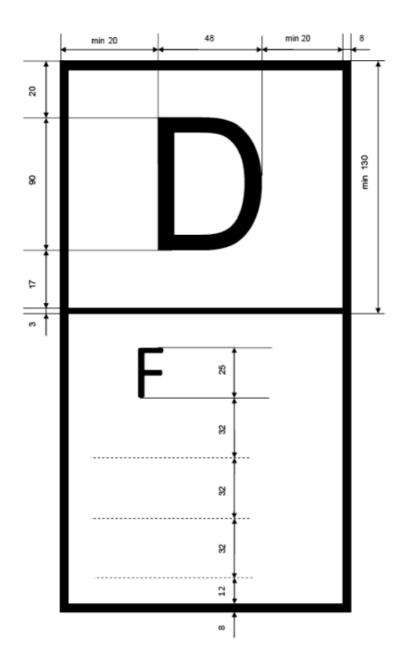
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WAG.

These wagons (except PPV/PPW marked) correspond to coding 4 or 8 of the first digit in the vehicle number specified in section PP.6.

(c) Wagons marked TEN or TEN-CW, although admitted in all Contracting States and wagons not compliant to UTP WAG, correspond to coding 4 or 8 of the first digit in the vehicle number specified in section PP.6.





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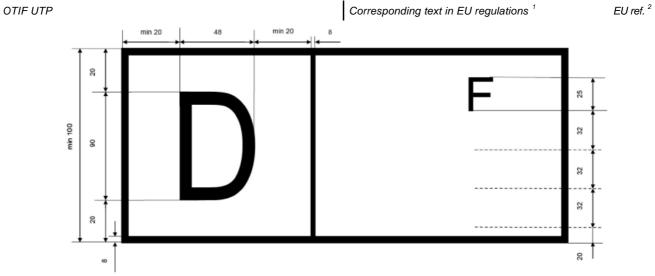
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PP.6 INTEROPERABILITY CODES USED FOR WAGONS (DIGITS 1-2)

	1 st digit	2 nd digit	0	1	2	3	4	5	6	7	8	9	2 nd digit	1 st digit
		Track Gauge	fixed or variable	fixed	variable	fixed	variable	fixed	variable	fixed	variable	fixed or variable	Track Gauge	
TEN (^a) and/or COTIF	0	with axles		TEN (ª) and/or				d.			PPV/PPW wagons	with axles	0
RIV (^b) and/or PPV/PPW	1	with bogies	Not to be		RIV (^b) wagons					(variable gauge)	with bogies	1		
TEN (^a) and/or TEN-GE (^a),	2	with axles	used				TEN (ª)	and/or				PPV/PPW	with axles	2
RIV (b) and/or PPV/PPW	3	with bogies					SE (^a), and/o	r RIV (^b) wa	agons			wagons (fixed gauge)	with bogies	3
	4	with axles (c)			not placed in service inside					special	with axles	4		
TEN-CW (^a), TEN and/or other wagons	8	with bogies (°)	mainte- nance related wagons							technical characteristics not placed in service inside EU or a COTIF Contracting	with bogies	8		
		Traffic		Domestic traffic or international traffic by special agreement										
	1 st digit	2 nd digit	0	1	2	3	4	5	6	7	8	9	2 nd digit	1 st digit
(b) Including w (c) Fixed or va	ermitted to cay agons, which riable gauge	arry the markin th according to	g TEN or TEN-	GE or TEN-C tions carry th	 CW, see section e digits define	on PP.5. ed in the pre	sent table. Rl	/ cannot be	used for wage			9 ntry into force of UT		1 ⁵

(d) Excepted for wagons in category I (temperature-controlled wagons), not to be used for new vehicles placed in service.

2nd digit
0
1
2
3
4
5
6
7
8
9
2nd digit
1st digit



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Corresponding text in EU regulations 10

EU ref.

PP_7 (Not relevant for wagons)

PP.8

PP.9 STANDARD NUMERICAL MARKING OF WAGONS (DIGITS 5 TO 8)

The This Annex indicates

numerical marking associated to the main technical characteristics of the wagon

and it

is published on the

OTIF website (www.otif.org)

ERA website (www.era.europa.eu).

An application for a new code is filed with the registering entity

and sent to the Secretary General.

(as referred to in Decision 2007/756/EC) and sent to the ERA.

PP.10 (NOT RELEVANT FOR WAG-ONS)

PP.11 CODES FOR THE TECHNICAL CHARACTERISTICS OF THE SPECIAL VEHICLES (DIGIT 6 TO 8)

Section PP.11 is published on the OTIF website (www.otif.org)

ERA website (www.era.europa.eu).

An application for a new code is filed with the registering entity

and sent to the Secretary General.

(as referred to in Decision 2007/756/EC)

and sent to the ERA.

A new code can be used only after publication by the Secretary General.

PP.12 LETTER MARKING FOR WAGONS EXCLUDING ARTICU-LATED AND MULTIPLE WAGONS

An application for a new code is filed with the registering entity

and sent to the Secretary General.

(as referred to in Decision 2007/756/EC)

and sent to the ERA.

A new code can be used only after publication by the Secretary General.

LETTER MARKING FOR WAGONS WHICH ARE NOT ARTICULATED OR MULTIPLE WAGONS

DEFINITION OF THE CATEGORY AND INDEX LETTERS

1. Important notes

In the attached tables:

Annex P of TSI OPE (Operations and management) – Commission Decision 2010/640/EU published in the EU Official Journal L280 on 26.10.2010 as amended by draft Commission Decision on a merged TSI OPE (HS+CR) that passed RISC on its meeting October 2010 and is expected to enter into force on 01.01.2012.

¹¹ If no EU reference is indicated, it means that the chapter/section number is the same as in the OTIF text.



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the information given in meters refers to the inside length of the wagons (lu);

the information given in tonnes (tu) corresponds to the highest load limit shown in the loading table for the wagon in question, this limit being determined in accordance with the procedures laid down.

2. Index letters with an international value common to all categories

- q pipe for electric heating which can be supplied by all accepted currents
- qq pipe and installation for electric heating which can be supplied by all accepted currents
- s wagons authorised to run under "s" conditions (see point 4.5.4 Wagon load table in EN 15877-1:2011)
- ss wagons authorised to run under "ss" conditions (see point 4.5.4 Wagon load table in EN 15877-1:2011)

3. Index letters with a national value

t, u, v, w, x, y, z

The value of these letters is defined by each Contracting State.

Member State.

CATEGORY LETTER: E - OPEN HIGH-SIDED WAGON

Reference w	agon	of ordinary type, with side and end tipping, with flat floor with 2 axles: $lu \ge 7,70$ m; $25 \text{ t} \le tu \le 30 \text{ t}$ with 4 axles: $lu \ge 12$ m; $50 \text{ t} \le tu \le 60 \text{ t}$ with 6 axles or more: $lu \ge 12$ m; $60t \le tu \le 75 \text{ t}$
Index	а	with 4 axles
letters	aa	with 6 axles or more
	С	with floor traps ^a
	k	with 2 axles: tu < 20 t with 4 axles: tu < 40 t with 6 axles or more: tu < 50 t
	kk	with 2 axles: $20 \text{ t} \le tu < 25 \text{ t}$ with 4 axles: $40 \text{ t} \le tu < 50 \text{ t}$ with 6 axles or more: $50 \text{ t} \le tu < 60 \text{ t}$
	I	without side tipping
	II	without floor traps ^b
	m	with 2 axles: lu < 7,70 m with 4 axles or more: lu < 12 m
	mm	with 4 axles or more: lu >12 m b
	n	with 2 axles: tu > 30 t with 4 axles: tu > 60 t with 6 axles or more: tu > 75 t
	0	without end tipping
	р	with station for brakeman ^b

a. This concept only applies to open high-sided wagons with a flat floor, and provided with a device enabling them to be used, either as ordinary wagons with a flat bottom, or for gravity unloading of certain goods by suitable positioning of the traps.

b. Only applicable to wagons with track gauge of 1520 mm.



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CATEGORY LETTER: F - OPEN HIGH-SIDED WAGON

		Of special type
Reference w	agon	with 2 axles: 25 t ≤ tu ≤ 30 t
		with 3 axles: 25 t ≤ tu ≤ 40 t
		with 4 axles: 50 t < tu < 60 t
		with 6 axles or more: 60 t ≤ tu ≤ 75 t
Index	а	with 4 axles
letters	aa	with 6 axles or more
	b	high capacity with axles (volume > 45 m ³)
	С	with controlled gravity unloading, on both sides, alternately, at the top
	cc	with controlled gravity unloading, on both sides, alternately, at the bottom ^a
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	k	with 2 or 3 axles: tu < 20 t with 4 axles: tu < 40 t with 6 axles or more: tu < 50 t
	kk	with 2 or 3 axles: $20 \text{ t} \le \text{tu} < 25 \text{ t}$ with 4 axles: $40 \text{ t} \le \text{tu} < 50 \text{t}$ with 6 axles or more: $50 \text{ t} \le \text{tu} < 60 \text{ t}$
	ı	with bulk gravity unloading, on both sides, simultaneously, at the top ^a
	II	with bulk gravity unloading, on both sides, simultaneously, at the bottom ^a
	n	with 2 axles: tu > 30 t with 3 axles or more: tu >40 t with 4 axles: tu > 60 t with 6 axles or more: tu > 75 t
	0	with axial bulk gravity unloading, at the top ^a
	00	with axial bulk gravity unloading, at the bottom ^a
	р	with axial controlled gravity unloading, at the top ^a
	рр	with axial controlled gravity unloading, at the bottom ^a
	ppp	with station for brakeman ^b

Wagons with gravity unloading in category F are open wagons, which do not have a flat floor and have no tipping facility either at the end or the side.

The method of unloading these wagons is defined by a combination of the following characteristics:

Arrangement of the unloading apertures:

- axial : Apertures situated above the centre of the track
- bilateral: Apertures on either side of the track, outside the rails (For these wagons, unloading is:
 - simultaneous, if complete emptying of the wagon requires the apertures to be open on both sides,
 - alternate, if complete emptying of the wagon can take place by opening the apertures on one side only)
- top: The lower edge of the discharge through (without taking into account mobile devices which may extend this through) is situated at least 0.700 m above the rail, and allows for the use of a conveyor belt to take away the goods
- bottom: The position of the lower edge of the discharge through does not allow for the use of a conveyor belt to take away the goods

Rate of unloading.

- bulk: Once the apertures are open for unloading, they cannot be closed again until the wagon is empty
- controlled: At any time during unloading, the flow of the goods can be regulated or even stopped

b. Only applicable to wagons with track gauge of 1520 mm.



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CATEGORY LETTER: G - COVERED WAGON

Reference wa	agon	Of ordinary type
		with at least 8 ventilation apertures
		with 2 axles: 9 m ≤ lu < 12 m; 25 t ≤ tu ≤ 30 t
		with 4 axles: 15 m \leq lu $<$ 18 m; 50 t \leq tu \leq 60 t
		with 6 axles or more: 15 m ≤ lu < 18 m; 60 t ≤ tu ≤ 75 t
Index	а	with 4 axles
letters	aa	with 6 axles or more
	b	high capacity: - with 2 axles: $lu \ge 12 \text{ m}$ and payload capacity $\ge 70 \text{ m}^3$
		 with 4 axles or more: lu ≥ 18 m
	bb	with 4 axles: lu > 18 m ^a
	g	for grain
	h	for fruits and vegetables ^b
	k	with 2 axles: tu < 20 t
		with 4 axles: tu < 40t
		with 6 axles or more: tu < 50 t
	kk	with 2 axles: 20 t ≤ tu < 25 t
		with 4 axles: 40 t ≤ tu < 50 t
		with 6 axles or more: 50 t ≤ tu < 60 t
	l I	with less than 8 ventilation apertures
	II	with enlarged doors apertures ^a
	m	with 2 axles: lu < 9 m with 4 axles or more: lu < 15 m
	n	with 2 axles: tu > 30 t with 4 axles: tu > 60 t
		with 6 axles or more: tu > 75 t
	0	with 2 axles: lu < 12 m and payload capacity ≥ 70 m ³
	р	with station for brakeman ^a
a. Only appl		gons with track gauge of 1520 mm.
b. The conc	ept "for fruit at the floor	s and vegetables" applies only to wagons provided with additional ventilation



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CATEGORY LETTER: H - COVERED WAGON

Reference w	vagon	of special type with 2 axles: 9 m \leq lu \leq 12 m; 25 t \leq tu \leq 28 t with 4 axles: 15 m \leq lu $<$ 18 m; 50 t \leq tu \leq 60 t with 6 axles or more: 15 m \leq lu $<$ 18 m; 60 t \leq tu \leq 75 t
Index	а	with 4 axles
letters	aa	with 6 axles or more
	b	with 2 axles: 12 m \leq lu \leq 14 m and payload capacity \geq 70 m ^{3 a} with 4 axles or more: 18 m \leq lu $<$ 22 m
	bb	with 2 axles: lu ≥ 14m with 4 axles or more: lu ≥ 22 m
	С	with end doors
	СС	with end doors and fitted internally for the transport of motor cars
	d	with floor traps
	dd	with tipping body ^b
	е	with 2 floors
	ee	with 3 floors or more
	f	suitable for traffic with Great Britain ^a
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively) ^a
	g	for grain
	gg	for cement b
	h	for fruits and vegetables ^c
	hh	for mineral fertilizer ^b
	i	with opening or shunt walls
	ii	with very robust opening or shunt walls d
	k	with 2 axles: tu < 20 t with 4 axles: tu < 40 t with 6 axles or more: tu < 50 t
	kk	with 2 axles: $20 \text{ t} \le tu < 25 \text{ t}$ with 4 axles: $40 \text{ t} \le tu < 50 \text{ t}$ with 6 axles or more: $50 \text{ t} \le tu < 60 \text{ t}$
		with movable partitions ^e
	l II	with lockable movable partitions ^e
	m	with 2 axles: lu < 9 m with 4 axles or more: lu < 15 m
	mm	with 4 axles or more: lu > 18 m b
	n	with 2 axles: tu > 28 t with 4 axles: tu < 60 t with 6 axles or more: tu > 75 t
	0	with 2 axles: lu 12 m < 14 m et volume utile ≥ 70 m ³
	р	with station for brakeman ^b

²⁻axle wagons bearing the index letters "f", "fff" can have a payload capacity less than 70 m³.

<sup>b. Only applicable to wagons with track gauge of 1520 mm.
c. The concept « for fruits and vegetables » applies only to wagons provided with additional ventilation</sup> apertures at the floor level.

Only applicable to wagons with gauge of 1435 mm.

Movable partitions may be dismounted temporarily.



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CATEGORY LETTER: I - TEMPERATURE-CONTROLLED WAGON

Reference wa	agon	refrigerator wagon with class IN thermal insulation, with motor-driven ventilation, with gratings and ice bunker ≥ 3,5 m³ with 2 axles: 19 m² ≤ floor area < 22 m²; 15 t ≤ tu ≤ 25 t
	1	with 4 axles: floor area ≥ 39 m²; 30 t ≤ tu ≤ 40 t
Index	а	with 4 axles
letters	b	with 2 axles and large floor area: $22 \text{ m}^2 \le \text{floor area} \le 27 \text{ m}^2$
	bb	with 2 axles and very large floor area: floor area > 27 m ²
	С	with meat hooks
	d	for fish
	е	with electric ventilation
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	g	with mechanical refrigeration a b
	gg	refrigerator with liquefied gas ^a
	h	with class IR thermal insulation
	i	mechanically refrigerated by the machinery of an accompanying technical wagon ^{a b c}
	ii	accompanying technical wagon a c
	k	with 2 axles: tu > 15 t with 4 axles: tu < 30 t
	1	insulated without ice bunkers a d
	m	with 2 axles: floor area < 19 m ² with 4 axles: floor area < 39 m ²
	mm	with 4 axles: floor area ≥ 39m ^{2 e}
	n	with 2 axles: tu > 25 t with 4 axles; tu > 40 t
	0	with ice bunkers of capacity less than 3,5 m ^{3 d}
	р	without gratings

- The index letter "I" shall not be marked on wagons bearing the index letters "g", "gg", "i" or "ii".

 Wagons bearing both the index letters "g" and "i" can be used individually or in a mechanically refrigerated raft.

 The concept of "accompanying technical wagon" applies at the same time to factory wagons, workshop wagons (both with or without sleeping accommodation) and dormitory wagons.
- The index letter "o" shall not be marked on wagons bearing the index letter "I".

e. Only applicable to wagons with track gauge of 1520 mm.

Note: The floor area of covered refrigerator wagons is always determined taking into account the use of ice bunkers.



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CATEGORY LETTER: K - 2-AXLE FLAT WAGON

Reference wa	igon	Of ordinary type with drop sides and short stanchions lu ≥ 12 m; 25 t ≤ tu ≤ 30 t
Index	b	with long stanchions
letters	g	fitted for the transport of containers ^a
	i	with removable cover and non-removable ends ^b
	j	with shock-absorbing device
	k	tu < 20 t
	kk	20 t ≤ tu < 25 t
	1	without stanchions
	m	9 m ≤ lu < 12 m
	mm	lu < 9 m
	n	tu > 30 t
	0	with non-removable sides
	р	without sides ^b
	рр	with removable sides

Index letter "g" may be used together with category letter K exclusively for ordinary wagons which have only been additionally fitted out for the transport of containers. Wagons fitted out solely for the transport of containers must be classified in category L.

The index letter "p" shall not be marked on wagons bearing index letter "i".



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CATEGORY LETTER: L - 2-AXLE FLAT WAGON

Reference wagon		of special type
		lu ≥ 12 m; 25 t ≤ tu ≤ 30 t
Index	b	with special fittings for securing purposes for medium-sized containers (pa) ^a
letters	С	with swivelling bolster ^a
	d	fitted out for the transport of motor cars, without deck ^a
	е	with decks for the transport of motor cars ^a
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	g	fitted for the transport of containers (except pa) a b
	h	fitted out for the transport of steel coils, eye to side a c
	hh	fitted out for the transport of steel coils, eye to sky a c
	i	with removable cover and non-removable ends ^a
	ii	with very robust removable metallic cover ^d and non-removable ends ^a
	j	with shock-absorbing device
	k	tu < 20 t
	kk	20 t ≤ tu < 25 t
	I	without stanchions ^a
	m	9 m ≤ lu < 12 m
	mm	lu < 9 m
	n	tu > 30 t
	р	without sides ^a

a. The inscription of the index letters "I" or "p" is optional for wagons bearing the index letters "b", "c", "d", "e", "g", "h", "hh", "i" or "ii". But numerical codes must always correspond to letter markings on wagons.

- c. Wagons used solely for the transport of steel coils.
- d. Only applicable to wagons with track gauge of 1435 mm.

CATEGORY LETTER: O - MIXED FLAT AND OPEN HIGH-SIDED WAGON

Reference w	agon	of ordinary type with 2 or 3 axles, with drop sides or ends and stanchions with 2 axles: $lu \ge 12$ m; 25 t $\le tu \le 30$ t with 3 axles: $lu \ge 12$ m; 25 t $\le tu \le 40$ t
Index	а	with 3 axles
letters	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	k	tu < 20 t
	kk	20 t ≤ tu < 25 t
	I	without stanchions
	m	9 m ≤ lu < 12 m
	mm	lu < 9 m
	n	with 2 axles: tu > 30 t with 3 axles: tu > 40 t

b. Wagons used solely for the transport of containers (except pa).



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CATEGORY LETTER: R - FLAT BOGIES WAGON

Reference w	/agon	of ordinary type with drop ends and stanchions 18 m ≤ lu < 22 m; 50 t ≤ tu ≤ 60 t
Index	b	lu ≥ 22 m
letters	е	with drop sides
	g	fitted for the transport of containers ^a
	h	fitted out for the transport of steel coils, eye to side b
	hh	fitted out for the transport of steel coils, eye to sky b
	i	with removable cover and non-removable ends ^c
	j	with shock-absorbing device
	k	tu < 40 t
	kk	40 t ≤ tu < 50 t
	I	without stanchions
	m	15 m ≤ lu < 18 m
	mm	lu < 15 m
	n	tu > 60 t
	0	with non-removable ends less than 2 m in height
	00	with non-removable ends, 2 m or more in height ^c
	р	without drop ends ^c
	рр	with removable sides

a. The use of the index letter "g" associated with the category letter R is only possible in the case of ordinary wagons which have only been additionally fitted out for the transport of containers. Wagons fitted out solely for the transport of containers must be classified in category S.

b. The use of the index letter "h" or "hh" together with the category letter R is only possible in the case of ordinary wagons which have only been additionally fitted out for the transport of containers. Wagons fitted out solely for the transport of containers must be classified in category S.

c. The index letters "oo" and/or "p" shall not be marked on wagons bearing index letter "i".



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CATEGORY LETTER: S - FLAT BOGIES WAGON

Reference v	vagon	of special type
		with 4 axles: $lu \ge 18 \text{ m}$; 50 t ≤ tu ≤ 60 t
		with 6 axles or more: lu ≥ 22 m; 60 t ≤ tu ≤ 75 t
Index	а	with 6 axles (2 bogies of 3 axles)
letters	aa	with 8 axles or more
	aaa	with 4 axles (2 bogies of 2 axles) ^a
	b	with special fittings for securing purposes for medium-sized containers (pa) ^b
	С	with swivelling bolster ^b
	d	fitted out for the transport of motor cars, without deck bc
	е	with decks for the transport of motor cars ^b
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	g	fitted for the transport of containers, total loading length ≤ 60' (except pa) ^{b c d}
	99	fitted for the transport of containers, total loading length > 60' (except pa) b c d
	h	fitted out for the transport of steel coils, eye to side be
	hh	fitted out for the transport of steel coils, eye to sky be
	i	with removable cover and non-removable ends b
	ii	with very robust removable metallic cover ^f and non-removable ends ^b
	j	with shock-absorbing device
	k	with 4 axles: tu < 40 t with 6 axles or more: tu < 50 t
	kk	with 4 axles: 40 t ≤ tu < 50 t with 6 axles or more: 50 t ≤ tu < 60 t
	I	without stanchions ^b
	m	with 4 axles: 15 m ≤ lu < 18 m; with 6 axles or more: 18 m ≤ lu < 22 m
	mm	with 4 axles: lu < 15 m with 6 axles or more: lu < 18 m
	mmm	with 4 axles : lu ≥ 22 m ^a
	n	with 4 axles: tu > 60 t with 6 axles or more: tu > 75 t
	р	without sides b
0 1 1 1		***

- a. Only applicable to wagons with track gauge of 1520 mm.
- b. The inscription of the index letters "I" or "p" is optional for wagons bearing the index letters "b", "c", "d", "e", "g", "gg", "h", "hh", "i" or "ii". But numerical codes must always correspond to letter markings on wagons.
- c. Wagons which in addition to the transport of containers and swap bodies are used to transport vehicles shall be marked with the index letters "g" or "gg" and the letter "d".
- d. Wagons used solely for the transport of containers or for transport of swap bodies for grab handling and spreader gripping.
- e. Wagons used solely for the transport of steel coils.
- f. Only applicable to wagons with track gauge of 1435 mm.



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CATEGORY LETTER: T - WAGON WITH OPENING ROOF

Reference wagon		with 2 axles: 9 m \leq lu $<$ 12 m; 25 t \leq tu \leq 30 t with 4 axles: 15 m \leq lu $<$ 18 m ; 50 t \leq tu \leq 60 t with 6 axles or more: 15 m \leq lu $<$ 18 m; 60 t \leq tu \leq 75 t
Index	а	with 4 axles
letters	aa	with 6 axles or more
	b	high capacity: with 2 axles: lu ≥ 12 m
		with 4 axles or more: lu ≥ 18 m ^{a b}
	С	with end doors
	d	with controlled gravity unloading, on both sides, alternately, at the top ^{a b c}
	dd	with controlled gravity unloading, on both sides, alternately, at the bottom ^{a b c}
	е	with unobstructed height of the doors > 1,90 m a b c
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	g	for grain
	h	fitted out for the transport of steel coils, eye to side
	hh	fitted out for the transport of steel coils, eye to sky
	i	with opening walls ^a
	j	with shock-absorbing device
	k	with 2 axles: tu < 20 t
		with 4 axles: tu < 40 t
		with 6 axles or more: tu < 50 t
	kk	with 2 axles: 20 t ≤ tu < 25 t
		with 4 axles: 40 t ≤ tu < 50 t
		with 6 axles or more: $50 \text{ t} \le \text{tu} < 60 \text{ t}$
	I	with bulk gravity unloading, on both sides, simultaneously, at the top ^{a b c}
	II	with bulk gravity unloading, on both sides, simultaneously, at the bottom ^{a b c}
	m	with 2 axles: lu < 9 m with 4 axles or more: lu < 15 m ^b
	n	with 2 axles: tu > 30 t
		with 4 axles: tu > 60 t
		with 6 axles or more: tu > 75 t
	0	with axial bulk gravity unloading, at the top abc
	00	with axial bulk gravity unloading, at the bottom abc
	р	with axial controlled gravity unloading, at the top abc
	pp	with axial controlled gravity unloading, at the bottom a b c

- a. Index letter "e":
 - is optional on wagons bearing the index letter "b" (but numerical codes must always correspond to letter markings on wagons),
- shall not be marked on wagons bearing the index letters "d", "dd", "i", "l", "l", "o", "oo", "p" ou "pp".
 b. Index letter "b" and "m" shall not be marked on wagons bearing the index letters "d", "dd", "l", "ll", "o", "oo", "p" or "pp".
- Wagons with gravity unloading in category T are wagons fitted with an opening roof giving access to a loading hatch over the complete length of the body; these wagons do not have a flat floor and are not designed for end or side tipping.

The method of unloading these wagons is defined by a combination of the following characteristics: Arrangement of the unloading apertures:

- axial: Apertures situated above the centre of the track
- Apertures on either side of the track, outside the rails (For these wagons, unloading is: - bilateral:
 - simultaneous, if complete emptying of the wagon requires the apertures to be open on both sides,
 - alternate, if complete emptying of the wagon can take place by opening the apertures on one side only)
- The lower edge of the discharge through (without taking into account mobile devices which may - top: extend this through) is situated at least 0.700 m above the rail, and allows for the use of a conveyor belt to take away the goods
- The position of the lower edge of the discharge through does not allow for the use of a conveyor belt - bottom: to take away the goods

Rate of unloading:

- Once the apertures are open for unloading, they cannot be closed again until the wagon is empty - bulk:
- controlled At any time during unloading, the flow of the goods can be regulated or even stopped



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CATEGORY LETTER: U - SPECIAL WAGONS

Reference w	vagon	other than those in categories F, H, L, S ou Z with 2 axles: 25 t ≤ tu ≤ 30 t with 3 axles: 25 t ≤ tu ≤ 40 t with 4 axles: 50 t ≤ tu ≤ 60t with 6 axles or more: 60 t ≤ tu ≤ 75 t
Index	а	with 4 axles
letters	aa	with 6 axles or more
	С	with unloading under pressure
	d	with controlled gravity unloading, on both sides, alternately, at the top ^a
	dd	with controlled gravity unloading, on both sides, alternately, at the bottom ^a
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	g	for grain
	i	fitted out for the transport objects which should exceed the gauge if they were loaded on ordinary wagons bc
	k	with 2 or 3 axles: tu < 20 t with 4 axles: tu < 40 t with 6 axles or more: tu < 50 t
	kk	with 2 or 3 axles: $20 \text{ t} \le \text{tu} < 25 \text{ t}$ with 4 axles: $40 \text{ t} \le \text{tu} < 50 \text{ t}$ with 6 axles or more: $50 \text{ t} \le \text{tu} < 60 \text{ t}$
	I	with bulk gravity unloading, on both sides, simultaneously, at the top ^a
	II	with bulk gravity unloading, on both sides, simultaneously, at the bottom ^a
	n	with 2 axles: tu > 30 t with 3 axles: tu > 40 t with 4 axles: tu > 60 t with 6 axles or more: tu > 75 t °
	0	with axial bulk gravity unloading, at the top ^a
	00	with axial bulk gravity unloading, at the bottom ^a
	р	with axial bulk gravity unloading, at the top ^a
	рр	with axial bulk gravity unloading, at the bottom ^a

- a. Wagons with gravity unloading in category U are closed wagons which can only be loaded through one or more loading apertures situated in at the top part of the body, and whose total opening dimensions are less than the length of the body; these wagons do not have a flat floor and are not designed for end or side tipping.
- b. In particular:
 - well wagons
 - wagons with a central recess
 - wagons with an ordinary sloping diagonal permanent control desk
 - Index letter "n" shall not be marked on wagons bearing the index letter "i".

The method of unloading these wagons is defined by a combination of the following characteristics:

Arrangement of the unloading apertures:

- axial: Apertures situated above the centre of the track
 - bilateral: Apertures on either side of the track, outside the rails

(For these wagons, unloading is:

- simultaneous, if complete emptying of the wagon requires the apertures to be open on both sides,
- alternate, if complete emptying of the wagon can take place by opening the apertures on one side only)

- top: The lower edge of the discharge through (without taking into account mobile devices which may extend this through) is situated at least 0.700 m above the rail, and allows for the use of a con-

veyor belt to take away the goods

- bottom: The position of the lower edge of the discharge through does not allow for the use of a conveyor

belt to take away the goods

Rate of unloading:

- bulk: Once the apertures are open for unloading, they cannot be closed again until the wagon is

empty

- controlled: At any time during unloading, the flow of the goods can be regulated or even stopped



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Status: DRAFT

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CATEGORY LETTER: Z - TANK WAGON

Reference wagon		with metal shell,
		for the transport of liquids or gases
		with 2 axles: 25 t ≤ lu ≤ 30 t
		with 3 axles: 25 t ≤ tu ≤ 40 t
		with 4 axles: 50 t ≤ tu ≤ 60 t
		with 6 axles or more: 60 t ≤ tu ≤ 75 t
Index	а	with 4 axles
letters	aa	with 6 axles or more
	b	for oil products ^a
	С	with unloading under pressure ^b
	d	for food and chemical products ^a
	е	fitted with heating devices
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	g	for the transport of gases under pressure, liquefied or dissolved under pressure ^b
	i	tank of non-metallic material
	j	with shock-absorbing device
	k	with 2 or 3 axles: tu < 20 t
		with 4 axles: tu < 40 t
		with 6 axles or more: tu < 50 t
	kk	with 2 or 3 axles: 20 t ≤ tu < 25 t
		with 4 axles: $40 \text{ t} \le \text{tu} < 50 \text{ t}$
		with 6 axles or more: 50 t ≤ tu < 60 t
	n	with 2 axles: tu > 30 t
		with 3 axles: tu > 40 t with 4 axles tu > 60 t
		with 4 axies tu > 60 t with 6 axies or more: tu > 75 t
	р	with station for brakeman ^a
a Only applicable	<u> </u>	

a. Only applicable to wagons with gauge of 1520 mm.b. The index letter "c" shall not be marked on wagons bearing the index letter "g".



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Version: 01 F

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LETTER MARKING FOR ARTICULATED AND MULTIPLE WAGONS DEFINITION OF THE CATEGORY AND INDEX LETTERS

1. Important notes

In the attached tables, the information given in meters refers to the inside length of the wagons (lu).

2. Index letters with an international value common to all categories

- q pipe for electric heating which can be supplied by all accepted currents
- qq pipe and installation for electric heating which can be supplied by all accepted currents
- s wagons authorised to run under "s" conditions (see point 4.5.4 Wagon load table in EN 15877-1:2011)
- ss wagons authorised to run under "ss" conditions (see point 4.5.4 Wagon load table in EN 15877-1:2011)

3. Index letters with a national value

t, u, v, w, x, y, z

The value of these letters is defined by each Member State.



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CATEGORY LETTER: F - OPEN HIGH-SIDED WAGON

Reference wagon		Articulated or multiple wagon with axles, with 2 units 22 m ≤ lu < 27 m
Index	а	with bogies
letters	С	with controlled gravity unloading, on both sides, alternately, at the top ^a
	СС	with controlled gravity unloading, on both sides, alternately, at the bottom ^a
	Е	with 3 units
	ee	with 4 units or more
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	I	with bulk gravity unloading, on both sides, simultaneously, at the top
	II	with bulk gravity unloading, on both sides, simultaneously, at the bottom ^a
	m	with 2 units: lu ≥ 27 m
	mm	with 2 units: lu < 22 m
	0	with axial bulk gravity unloading, at the top ^a
	00	with axial bulk gravity unloading, at the bottom ^a
	р	with axial controlled gravity unloading, at the top ^a
	pp	with axial controlled gravity unloading, at the bottom ^a
	r	articulated wagon
- Managa with annu	rr	multiple wagon

 Wagons with gravity unloading in category F are open wagons, which do not have a flat floor and are not designed for end or side tipping.

The method of unloading these wagons is defined by a combination of the following characteristics: Arrangement of the unloading apertures:

- axial: Apertures situated above the centre of the track
 - bilateral: Apertures on either side of the track, outside the rails

(For these wagons, unloading is:

 simultaneous, if complete emptying of the wagon requires the apertures to be open on both sides.

- alternate, if complete emptying of the wagon can take place by opening the apertures on one side only)

- top: The lower edge of the discharge through (without taking into account mobile devices which may
extend this through) is situated at least 0.700 m above the rail, and allows for the use of a conveyor belt to take away the goods

- bottom: The position of the lower edge of the discharge through does not allow for the use of a conveyor

belt to take away the goods

Rate of unloading:

- bulk: Once the apertures are open for unloading, they cannot be closed again until the wagon is

empty

- controlled: At any time during unloading, the flow of the goods can be regulated or even stopped



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CATEGORY LETTER: H - COVERED WAGON

Reference wa	igon	articulated or multiple wagon with axles, with 2 units
		22 m ≤ lu < 27 m
Index	а	with bogies
letters	С	with end doors
	CC	with end doors and fitted internally for the transport of motor cars
	d	with floor traps
	е	with 3 units
	ee	with 4 units or more
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	g	for grain
	h	for fruits and vegetables ^a
	i	with opening or shunt walls
	ii	with very robust opening or shunt walls ^b
	I	with movable partitions ^c
	II	with lockable movable partitions ^c
	m	with 2 units: lu ≥ 27 m
	mm	with 2 units: lu < 22 m
	r	articulated wagon
	rr	multiple wagon

a. The concept "for fruits and vegetables" applies only to wagons provided with additional ventilation apertures at the floor level.

b. Only applicable to wagons with gauge of 1435 mm.

c. Movable partitions may be dismounted temporarily.



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Ref.: A 94-02-PP/1.2011 rev1

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CATEGORY LETTER: I - TEMPERATURE CONTROLLED WAGON

Reference wa	igon	refrigerator wagon with class IN thermal insulation, with motor-driven ventilation, with gratings and ice bunker ≥ 3,5 m³ articulated or multiple wagon with axles, with 2 units 22 m ≤ lu < 27 m
Index	а	with bogies
letters	С	with meat hooks
	d	for fish
	е	with electric ventilation
	ee	with 4 units or more
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	g	with mechanical refrigeration ^a
	gg	refrigerator with liquefied gas ^a
	h	with class IR thermal insulation
	i	mechanically refrigerated by the machinery of an accompanying technical wagon ^{a b}
	ii	accompanying technical wagon a b
	I	insulated without ice bunkers a c
	m	with 2 units: lu ≥ 27 m
	mm	with 2 units: lu < 22 m
	0	with ice bunkers of capacity less than 3,5 m ^{3 c}
	00	with 3 units
	р	without gratings
	r	articulated wagon
	rr	multiple wagon

a. The index letter "I" shall not be marked on wagons bearing the index letters "g", "gg", "i" or "ii".

b. The concept of "accompanying technical wagon" applies at the same time to factory wagons, workshop wagons (both with or without sleeping accommodation) and dormitory wagons.

c. The index letter "o" shall not be marked on wagons bearing the index letter "I".



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CATEGORY LETTER: L - FLAT WAGON WITH SEPARATE AXLES

Reference wa	igon	articulated or multiple wagon with 2 units 22 m ≤ lu < 27 m
Index	а	articulated wagon
letters	aa	multiple wagon
	b	with special fittings for securing purposes for medium-sized containers (pa) ^a
	С	with swivelling bolster ^a
	d	fitted out for the transport of motor cars, without deck a
	е	with decks for the transport of motor cars ^a
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	g	fitted for the transport of containers ^{a b}
	h	fitted out for the transport of steel coils, eye to side ^{a c}
	hh	fitted out for the transport of steel coils, eye to sky ^{a c}
	i	with removable cover and non-removable ends ^a
	ii	with very robust removable metallic cover ^d and non-removable ends ^a
	j	with shock-absorbing device
	I	without stanchions ^a
	m	with 2 units: 18 m ≤ lu < 22 m
	mm	with 2 units: lu < 18 m
	0	with 3 units
	00	with 4 units or more
	р	without sides ^a
	r	with 2 units: lu ≥ 27 m

a. The inscription of the index letters "l" or "p" is optional for wagons bearing the index letters "b", "c", "d", "e", "g", "h", "hh", "i" or "ii". But numerical codes must always correspond to letter markings on wagons.

b. Wagons used solely for the transport of containers (except pa).

c. Wagons used solely for the transport of steel coils.

d. Only applicable to wagons with gauge of 1435 mm.



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CATEGORY LETTER: S - FLAT BOGIE WAGON

Reference v	vagon	articulated or multiple wagon with 2 units 22 m ≤ lu < 27 m
Index	b	with special fittings for securing purposes for medium-sized containers (pa) ^a
letters	С	with swivelling bolster ^a
	d	fitted out for the transport of motor cars, without deck ab
	е	with decks for the transport of motor cars ^a
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	g	fitted for the transport of containers, total loading length \leq 60' (except pa) ^{a b c}
	99	fitted for the transport of containers, total loading length > 60' (except pa) a b c
	h	fitted out for the transport of steel coils, eye to side a d
	hh	fitted out for the transport of steel coils, eye to sky a d
	i	with removable cover and non-removable ends ^a
	ii	with very robust removable metallic cover ^e and non-removable ends ^a
	j	with shock-absorbing device
	I	without stanchions ^a
	m	with 2 units: lu ≥ 27 m
	mm	with 2 units: lu < 22 m
	0	with 3 units
	00	with 4 units or more
	р	without sides ^a
	r	articulated wagon
	rr	multiple wagon

a. The inscription of the index letters "l" or "p" is optional for wagons bearing the index letters "b", "c", "d", "e", "g", "gg", "h", "hh", "i" or "ii". But numerical codes must always correspond to letter markings on wagons.

b. Wagons which in addition to the transport of containers and swap bodies are used to transport vehicles shall be marked with the index letters "g" or "gg" and the letter "d".

c. Wagons used solely for the transport of containers or for transport of swap bodies for grab handling and spreader gripping.

d. Wagons used solely for the transport of steel coils.

e. Only applicable to wagons with gauge of 1435 mm.



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CATEGORY LETTER: T - WAGON WITH OPENING ROOF

Reference wa	agon	articulated or multiple wagon with axles, with 2 units 22 m ≤ lu < 27 m
Index	а	with bogies
letters	b	with unobstructed height of doors > 1,90 m ^a
	С	with end doors
	d	with controlled gravity unloading, on both sides, alternately, at the top ^b
	dd	with controlled gravity unloading, on both sides, alternately, at the bottom ^{a b}
	е	with 3 units
	ee	with 4 units or more
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	g	for grain
	h	fitted out for the transport of steel coils, eye to side
	hh	fitted out for the transport of steel coils, eye to sky
	i	with opening walls ^a
	j	with shock-absorbing device
	I	with bulk gravity unloading, on both sides, simultaneously, at the top ^{a b}
	II	with bulk gravity unloading, on both sides, simultaneously, at the bottom
	m	with 2 units: lu ≥ 27 m
	mm	with 2 units: lu < 22 m
	0	with axial bulk gravity unloading, at the top a b
	00	with axial bulk gravity unloading, at the bottom ^{a b}
	р	with axial controlled gravity unloading, at the top a b
	pp	with axial controlled gravity unloading, at the bottom a b
	r	articulated wagon
	rr	multiple wagon

- a. Index letter "b" shall not be marked on wagons bearing the index letters "d", "dd", "i", "l", "l", "o", "oo", "p" or "pp".
- b. Wagons with gravity unloading in category T are wagons fitted with an opening roof giving access to a loading hatch over the complete length of the body; these wagons do not have a flat floor and are not designed for end or side tipping.

The method of unloading these wagons is defined by a combination of the following characteristics: Arrangement of the unloading apertures:

- axial: Apertures situated above the centre of the track
- bilateral: Apertures on either side of the track, outside the rails

(For these wagons, unloading is:

- simultaneous, if complete emptying of the wagon requires the apertures to be open on both sides,
- alternate, if complete emptying of the wagon can take place by opening the apertures on one side only)
- top: The lower edge of the discharge through (without taking into account mobile devices which
 may extend this through) is situated at least 0.700 m above the rail, and allows for the use of a
 conveyor belt to take away the goods
- bottom: The position of the lower edge of the discharge through does not allow for the use of a conveyor belt to take away the goods

Rate of unloading:

- bulk: Once the apertures are open for unloading, they cannot be closed again until the wagon is empty
- controlled: At any time during unloading, the flow of the goods can be regulated or even stopped



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CATEGORY LETTER: U - SPECIAL WAGONS

Reference wagon		articulated or multiple wagon, with axles, with 2 units 22 m ≤ lu < 27 m
Index	а	with bogies
letters	е	with 3 units
	ee	with 4 units or more
	С	with unloading under pressure
	d	with controlled gravity unloading, on both sides, alternately, at the top ^a
	dd	with controlled gravity unloading, on both sides, alternately, at the bottom ^a
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	g	for grain
	i	fitted out for the transport objects which should exceed the gauge if they were loaded on ordinary wagons ^b
	I	with bulk gravity unloading, on both sides, simultaneously, at the top
	II	with bulk gravity unloading, on both sides, simultaneously, at the bottom ^a
	m	with 2 units: lu ≥ 27 m
	mm	with 2 units: lu < 22 m
	0	with axial bulk gravity unloading, at the top ^a
	00	with axial bulk gravity unloading, at the bottom ab
	р	with axial controlled gravity unloading, at the top ^a
	pp	with axial controlled gravity unloading, at the bottom ^a
	r	articulated wagon
	rr	multiple wagon

- a. Wagons with gravity unloading in category U are closed wagons which can only be loaded through one or more loading apertures situated in at the top part of the body, and whose total opening dimensions are less than the length of the body; these wagons do not have a flat floor and are not designed for end or side tipping.
- b. In particular:
 - well wagons
 - wagons with a central recess
 - wagons with an ordinary sloping diagonal permanent control desk

The method of unloading these wagons is defined by a combination of the following characteristics: Arrangement of the unloading apertures:

- axial: Apertures situated above the centre of the track
- bilateral: Apertures on either side of the track, outside the rails.

(For these wagons, unloading is:

- simultaneous, if complete emptying of the wagon requires the apertures to be open on both sides,
- alternate, if complete emptying of the wagon can take place by opening the apertures on one side only)
- top: The lower edge of the discharge through (without taking into account mobile devices which may
 extend this through) is situated at least 0.700 m above the rail, and allows for the use of a conveyor
 belt to take away the goods
- bottom: The position of the lower edge of the discharge through does not allow for the use of a conveyor belt to take away the goods

Rate of unloading:

- bulk: Once the apertures are open for unloading, they cannot be closed again until the wagon is empty
- controlled: At any time during unloading, the flow of the goods can be regulated or even stopped



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CATEGORY LETTER: Z - TANK WAGON

Reference wa	igon	with metal shell, for the transport of liquids or gases articulated or multiple wagon with axles, with 2 units 22 m ≤ lu < 27 m
Index	а	with bogies
letters	С	with unloading under pressure ^a
	е	fitted with heating devices
	f	suitable for traffic with Great Britain
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively)
	g	for the transport of gases under pressure, liquefied or dissolved under pressure ^a
	i	tank of non-metallic material
	j	with shock-absorbing device
	m	with 2 units: lu ≥ 27 m
	mm	with 2 units: lu < 22 m
	0	with 3 units
	00	with 4 units or more
	r	articulated wagon
	rr	multiple wagon
a. The index letter "o	c" shall not b	e marked on wagons bearing the index letter "g".