

# Part 12 - Letter marking for wagons

## Part 12.1 - excluding 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);
- 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 at 100 km/h
- ss wagons authorised to run at 120 km/h

# **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.



CATEGORY LETTER: E - OPEN HIGH-SIDED WAGON

Reference	wagon	of ordinary type, with side and end tipping, with flat floor with 2 axles: lu ≥ 7,70 m; 25 t ≤ tu ≤ 30 t with 4 axles: lu ≥ 12 m; 50 t ≤ tu ≤ 60 t
		with 6 axless or more: $lu \ge 12$ m; $60t \le tu \le 75$ t
Index	a	with 4 axles
letters	aa	with 6 axles or more
	с	with floor traps <sup>a</sup>
	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: $20 t \le tu < 25 t$
		with 4 axles: $40 \text{ t} \le \text{tu} < 50 \text{ t}$
		with 6 axles or more: $50 t \le tu < 60 t$
	1	without side tipping
	11	without floor traps <sup>b</sup>
	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 <sup>b</sup>
	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
	p	with station for brakeman <sup>b</sup>
ordinar	y wagons with	plies to open high-sided wagons with a flat floor, and provided with a device enabling them to be used, either as a flat bottom, or for gravity unloading of certain goods by suitable positioning of the traps. agons with gauge of 1520 mm.



CATEGORY LETTER: F - OPEN HIGH-SIDED WAGON

		Of special type
Reference w	vagon	with 2 axles: $25 t \le tu \le 30 t$
0	0	with 3 axles: $25 t \le tu \le 40 t$
		with 4 axles: 50 t $\leq$ tu $\leq$ 60 t
		with 6 axles or more: 60 t $\leq$ tu $\leq$ 75 t
Index	а	with 4 axles
letters	aa	with 6 axles or more
	b	high capacity with axles (volume > $45 \text{ m}^3$ )
	с	with controlled gravity unloading, on both sides, alternately, at the top <sup>a</sup>
	сс	with controlled gravity unloading, on both sides, alternately, at the bottom <sup>a</sup>
	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: $20 t \le tu < 25 t$
		with 4 axles: $40 \text{ t} \le \text{tu} < 50 \text{t}$ with 6 axles or more: $50 \text{ t} \le \text{tu} < 60 \text{ t}$
	1	with bulk gravity unloading, on both sides, simultaneously, at the top <sup>a</sup>
	11	
		with bulk gravity unloading, on both sides, simultaneously, at the bottom <sup>a</sup> with 2 axles: $tu > 30 t$
	n	with 2 axies. $tu > 50 t$ with 3 axies or more: $tu > 40 t$
		with 5 axies of more: $ta > 40 t$ with 4 axies: $tu > 60 t$
		with 6 axles or more: $tu > 75 t$
	0	with axial bulk gravity unloading, at the top <sup>a</sup>
	00	with axial bulk gravity unloading, at the bottom <sup>a</sup>
	р	with axial controlled gravity unloading, at the top <sup>a</sup>
	pp	with axial controlled gravity unloading, at the bottom <sup>a</sup>
	ppp	with station for brakeman <sup>b</sup>
a. Wagons end or th		unloading in category F are open wagons, which do not have a flat floor and have no tipping facility either at the
		gons with gauge of 1520 mm.
The method of unload	ling these wa	gons is defined by a combination of the following characteristics:
Arrangement of the u	nloading ape	rtures:
- axial : Apertures	situated abov	e the centre of the track
<ul> <li>bilateral: Aperture</li> <li>(For these wagor</li> </ul>		ide of the track, outside the rails is:
– sim	ultaneous, if o	complete emptying of the wagon requires the apertures to be open on both sides,
– alte	rnate, if comp	lete emptying of the wagon can take place by opening the apertures on one side only)
		scharge through (without taking into account mobile devices which may extend this through) is situated at least ows for the use of a conveyor belt to take away the goods
– bottom: The posi	tion of the lov	wer 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 ap	pertures are of	pen for unloading, they cannot be closed again until the wagon is empty
<ul> <li>controlled: At an</li> </ul>	y time during	unloading, the flow of the goods can be regulated or even stopped
<ul> <li>axial : Apertures</li> <li>bilateral: Apertur (For these wagor</li> <li>sim</li> <li>alte</li> <li>top: The lower e</li> <li>0.700 m above th</li> <li>bottom: The posi</li> <li><i>Rate of unloading:</i></li> <li>bulk: Once the approximation</li> </ul>	situated abov res on either s is, unloading s ultaneous, if comp dge of the dis te rail, and all tion of the low	e the centre of the track ide of the track, outside the rails is: complete emptying of the wagon requires the apertures to be open on both sides, elete emptying of the wagon can take place by opening the apertures on one side only) scharge through (without taking into account mobile devices which may extend this through) is situated at ows for the use of a conveyor belt to take away the goods wer edge of the discharge through does not allow for the use of a conveyor belt to take away the goods



CATEGORY LETTER: G - COVERED WAGON

Reference wagon		Of ordinary type with at least 8 ventilation apertures 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
<b>T</b> 1		with 6 axles or more: $15 \text{ m} \le \text{lu} < 18 \text{ m}$ ; $60 \text{ t} \le \text{tu} \le 75 \text{ t}$
Index	a	with 4 axles
letters	aa	with 6 axles or more
	b	high capacity: - with 2 axles: $lu \ge 12$ m and payload capacity $\ge 70$ m <sup>3</sup>
		- with 4 axles or more: $lu \ge 18$ m
	bb	with 4 axles: $lu > 18 m^{a}$
	g	for grain
	h	for fruits and vegetables <sup>b</sup>
	k	with 2 axles: $tu < 20 t$
		with 4 axles: $tu < 40t$
		with 6 axles or more: $tu < 50 t$
	kk	with 2 axles: $20 t \le tu < 25 t$
		with 4 axles: $40 \text{ t} \le \text{tu} < 50 \text{ t}$
		with 6 axles or more: 50 t $\leq$ tu $<$ 60 t
	1	with less than 8 ventilation apertures
	11	with enlarged doors apertures <sup>a</sup>
	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 $\ge 70$ m <sup>3</sup>
	р	with station for brakeman <sup>a</sup>
		ons with gauge of 1520 mm. and vegetables" applies only to wagons provided with additional ventilation apertures at the floor level.



Reference wo	ngon	of special type with 2 axles: 9 m ≤ lu ≤ 12 m; 25 t ≤ tu ≤ 28 t with 4 axles: 15 m ≤ lu < 18 m; 50 t ≤ tu ≤ 60 t with 6 axles or more: 15 m ≤ lu < 18 m; 60 t ≤ tu ≤ 75 t
Index	a	with 4 axles
letters	aa	with 6 axles or more
	b	with 2 axles: $12 \text{ m} \le \text{lu} \le 14 \text{ m}$ and payload capacity $\ge 70 \text{ m}3^{\text{ a}}$
		with 4 axles or more: $18 \text{ m} \le \text{lu} < 22 \text{ m}$
	bb	with 2 axles: $lu \ge 14m$
		with 4 axles or more: $lu \ge 22 m$
	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 <sup>b</sup>
	e	with 2 floors
	ee	with 3 floors or more
	f	suitable for traffic with Great Britain <sup>a</sup>
	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	fff	suitable for traffic with Great Britain (by train-ferry exclusively) <sup>a</sup>
	g	for grain
	gg	for cement <sup>b</sup>
	h	for fruits and vegetables <sup>c</sup>
	hh	for mineral fertilizer <sup>b</sup>
	i	with opening or shunt walls
	ii	with very robust opening or shunt walls <sup>d</sup>
	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 $\leq$ tu $<$ 25 t
		with 4 axles: 40 t $\leq$ tu $<$ 50 t
	1	with 6 axles or more: $50 \text{ t} \le \text{tu} < 60 \text{ t}$
	1	with movable partitions <sup>e</sup>
	11	with lockable movable partitions <sup>e</sup>
	m	with 2 axles: lu < 9 m with 4 axles or more: lu < 15 m
	mm	with 4 axles or more: $lu > 18 m^{b}$
		with 2 axless or more: $u > 18 \text{ m}^{-1}$ with 2 axless: $u > 28 \text{ t}$
	n	with 2 axies: $tu > 28 t$ with 4 axies: $tu > 60 t$
		with 6 axles or more: $tu > 75 t$
	0	with 2 axles: lu 12 m < 14 m et volume utile $\ge$ 70 m <sup>3</sup>
	р	with station for brakeman <sup>b</sup>
	ons bearing t	he index letters "f", "fff" can have a payload capacity less than 70 m3.
c. The concep	ot « for fruits	ons with gauge of 1520 mm. and vegetables » applies only to wagons provided with additional ventilation apertures at the floor level.
d. Only applied	cable to wage	be dismounted temporarily.



# CATEGORY LETTER: I - TEMPERATURE-CONTROLLED WAGON

Reference w	agon	refrigerator wagon with class IN thermal insulation, with motor-driven ventilation, with gratings and ice bunker ≥ 3,5 m <sup>3</sup> with 2 axles: 19 m <sup>2</sup> ≤ floor area < 22 m <sup>2</sup> ; 15 t ≤ tu ≤ 25 t with 4 axles: floor area ≥ 39 m <sup>2</sup> ; 30 t ≤ tu ≤ 40 t
Index	a	with 4 axles
letters	b	with 2 axles and large floor area: $22 \text{ m}^2 \leq \text{floor area} \leq 27 \text{ m}^2$
	bb	with 2 axles and very large floor area: floor area $> 27 \text{ m}^2$
	с	with meat hooks
	d	for fish
	e	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 <sup>a b</sup>
	gg	refrigerator with liquefied gas <sup>a</sup>
	h	with class IR thermal insulation
	i	mechanically refrigerated by the machinery of an accompanying technical wagon <sup>a b c</sup>
	ii	accompanying technical wagon <sup>a c</sup>
	k	with 2 axles: $tu > 15 t$
		with 4 axles: $tu < 30 t$
	1	insulated without ice bunkers <sup>a d</sup>
	m	with 2 axles: floor area $< 19 \text{ m}^2$
		with 4 axles: floor area $< 39 \text{ m}^2$
	mm	with 4 axles: floor area $\ge 39m^{2e}$
	n	with 2 axles: $tu > 25 t$
		with 4 axles; $tu > 40 t$
	0	with ice bunkers of capacity less than 3,5 m <sup>3 d</sup>
1	p	without gratings
b. Wagons be c. The concep sleeping ac d. The index e. Only appli	earing both th pt of "accomp commodatio letter "o" sha cable to wago	<ul> <li>I not be marked on wagons bearing the index letters "g", "gg", "i" or "ii".</li> <li>e index letters "g" and "i" can be used individually or in a mechanically refrigerated raft.</li> <li>panying technical wagon" applies at the same time to factory wagons, workshop wagons (both with or without n) and dormitory wagons.</li> <li>Il not be marked on wagons bearing the index letter "l".</li> <li>pans with gauge of 1520 mm.</li> <li>d refrigerator wagons is always determined taking into account the use of ice bunkers.</li> </ul>



Reference	wagon	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 <sup>a</sup>
	i	with removable cover and non-removable ends <sup>b</sup>
	j	with shock-absorbing device
	k	tu < 20 t
	kk	$20 t \le tu < 25 t$
	1	without stanchions
	m	$9 \text{ m} \le \text{lu} < 12 \text{ m}$
	mm	lu < 9 m
	n	tu > 30 t
	0	with non-removable sides
	р	without sides <sup>b</sup>
	pp	with removable sides
out for th	ne transport of	used together with category letter K exclusively for ordinary wagons which have only been additionally fitted containers. Wagons fitted out solely for the transport of containers must be classified in category L.
b. The inde	x letter "p" sha	Il not be marked on wagons bearing index letter "i".



Reference	wagon	of special type
		$lu \ge 12 m; 25 t \le tu \le 30 t$
Index	b	with special fittings for securing purposes for medium-sized containers
		(pa) <sup>a</sup>
letters	с	with swivelling bolster <sup>a</sup>
	d	fitted out for the transport of motor cars, without deck <sup>a</sup>
	e	with decks for the transport of motor cars <sup>a</sup>
	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) <sup>a b</sup>
	h	fitted out for the transport of steel coils, eye to side <sup>a c</sup>
	hh	fitted out for the transport of steel coils, eye to sky <sup>a c</sup>
	i	with removable cover and non-removable ends <sup>a</sup>
	ii	with very robust removable metallic cover <sup>d</sup> and non-removable ends <sup>a</sup>
	j	with shock-absorbing device
	k	tu < 20 t
	kk	$20 t \le tu < 25 t$
	1	without stanchions <sup>a</sup>
	m	$9 \text{ m} \le \text{lu} < 12 \text{ m}$
	mm	lu < 9 m
	n	tu > 30 t
	р	without sides <sup>a</sup>
	of the index let	ters "l" or "p" is optional for wagons bearing the index letters "b", "c", "d", "e", "g", "h", "hh", "i" or "ii". But
	•	rrespond to letter markings on wagons. sport of containers (except pa).
		sport of steel coils.

d. Only applicable to wagons with 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 ≥ 12 m; 25 t ≤ tu ≤ 30 t with 3 axles: lu ≥ 12 m; 25 t ≤ tu ≤ 40 t
Index	a	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	$20 t \le tu < 25 t$
	1	without stanchions
	m	$9 \text{ m} \le \text{lu} < 12 \text{ m}$
	mm	lu < 9 m
	n	with 2 axles: $tu > 30 t$
		with 3 axles: $tu > 40 t$

## CATEGORY LETTER: R - FLAT BOGIES WAGON

Reference wagon		of ordinary type with drop ends and stanchions
		$18 \text{ m} \le \text{lu} < 22 \text{ m}; 50 \text{ t} \le \text{tu} \le 60 \text{ t}$
Index	b	$lu \ge 22 m$
letters	e	with drop sides
	g	fitted for the transport of containers <sup>a</sup>
	h	fitted out for the transport of steel coils, eye to side <sup>b</sup>
	hh	fitted out for the transport of steel coils, eye to sky <sup>b</sup>
	i	with removable cover and non-removable ends <sup>c</sup>
	j	with shock-absorbing device
	k	tu < 40 t
	kk	$40 t \le tu < 50 t$
	1	without stanchions
	m	$15 \text{ m} \le \text{lu} < 18 \text{ m}$
	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 <sup>c</sup>
	р	without drop ends <sup>c</sup>
	pp	with removable sides

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".



CATEGORY LETTER: S - FLAT BOGIES WAGON
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Reference w	vagon	of special type
		with 4 axles: $lu \ge 18 m$ ; $50 t \le tu \le 60 t$
		with 6 axles or more: $lu \ge 22 m$ ; 60 t $\le tu \le 75 t$
Index	a	with 6 axles (2 bogies of 3 axles)
letters	aa	with 8 axles or more
	aaa	with 4 axles (2 bogies of 2 axles) <sup>a</sup>
	b	with special fittings for securing purposes for medium-sized containers $(pa)^{b}$
	с	with swivelling bolster <sup>b</sup>
	d	fitted out for the transport of motor cars, without deck <sup>b c</sup>
	е	with decks for the transport of motor cars <sup>b</sup>
	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 $\leq 60^{\circ}$ (except pa) <sup>b c d</sup>
	gg	fitted for the transport of containers, total loading length > 60' (except pa) $^{bcd}$
	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 <sup>be</sup>
	hhh	fitted out transport of steel coils, eye longitudinal
	i	with removable cover and non-removable ends <sup>b</sup>
	ii	with very robust removable metallic cover <sup>f</sup> and non-removable ends <sup>b</sup>
	j	with shock-absorbing device
	k	with 4 axles: $tu < 40 t$
		with 6 axles or more: $tu < 50 t$
	kk	with 4 axles: $40 \text{ t} \le \text{tu} < 50 \text{ t}$
		with 6 axles or more: $50 t \le tu < 60 t$
	1	without stanchions <sup>b</sup>
	m	with 4 axles: $15 \text{ m} \le \text{lu} < 18 \text{ m}$ ;
		with 6 axles or more: $18 \text{ m} \le \text{lu} < 22 \text{ m}$
	mm	with 4 axles: $lu < 15 m$
		with 6 axles or more: lu < 18 m
	mmm	with 4 axles : $lu \ge 22 m^a$
	n	with 4 axles: $tu > 60 t$ with 6 axles or more: $tu > 75 t$
	р	without sides <sup>b</sup>
The inscription But numerical c	of the index let odes must alwa	h gauge of 1520 mm. tters "l" or "p" is optional for wagons bearing the index letters "b", "c", "d", "e", "g", "gg", "h", "hh", "i" or "ii ays correspond to letter markings on wagons. he transport of containers and swap bodies are used to transport vehicles shall be marked with the index letter

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 gauge of 1435 mm.



CATEGORY LETTER: T - WAGON WITH OPENING ROOF

Reference wagon		with 2 axles: 9 m ≤ lu < 12 m; 25 t ≤ tu ≤ 30 t with 4 axles: 15 m ≤ lu < 18 m; 50 t ≤ tu ≤ 60 t with 6 axles or more: 15 m ≤ lu < 18 m; 60 t ≤ tu ≤ 75 t	
Index	a	with 4 axles	
letters	aa	with 6 axles or more	
	b	high capacity: with 2 axles: $lu \ge 12 m$	
		with 4 axles or more: $lu \ge 18 \text{ m}^{a b}$	
	с	with end doors	
	d	with controlled gravity unloading, on both sides, alternately, at the top <sup>a b c</sup>	
	dd	with controlled gravity unloading, on both sides, alternately, at the bottom <sup>a b c</sup>	
	e	with unobstructed height of the doors $> 1,90$ m <sup>a b c</sup>	
	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 <sup>a</sup>	
	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: $20 \text{ t} \le \text{tu} < 25 \text{ t}$	
		with 4 axles: $40 \text{ t} \le \text{tu} < 50 \text{ t}$	
		with 6 axles or more: $50 \text{ t} \le \text{tu} < 60 \text{ t}$	
	1	with bulk gravity unloading, on both sides, simultaneously, at the top <sup>a b c</sup>	
	11	with bulk gravity unloading, on both sides, simultaneously, at the bottom <sup>a b c</sup>	
	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 <sup>a b c</sup>	
	00	with axial bulk gravity unloading, at the bottom <sup>a b c</sup>	
	р	with axial controlled gravity unloading, at the top <sup>a b c</sup>	
	pp	with axial controlled gravity unloading, at the bottom <sup>a b c</sup>	

a. Index letter 'C'.
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", "o", "oo", "p" ou "pp".
b. Index letter "b" and "m" shall not be marked on wagons bearing the index letters "d", "dd", "i", "l", "ll", "o", "oo", "p" or "pp".
c. 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	The method of unloading these wagons is defined by a combination of the following characteristics:				
Arrangement of	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				



**CATEGORY LETTER: U - SPECIAL WAGONS** 

Reference wagon		other than those in categories F, H, L, S ou Z
		with 2 axles: $25 t \le tu \le 30 t$
		with 3 axles: $25 t \le tu \le 40 t$
		with 4 axles: 50 t $\leq$ tu $\leq$ 60t
		with 6 axles or more: 60 t $\leq$ tu $\leq$ 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 <sup>a</sup>
	dd	with controlled gravity unloading, on both sides, alternately, at the bottom <sup>a</sup>
	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 <sup>b c</sup>
	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: $20 t \le tu < 25 t$
		with 4 axles: $40 \text{ t} \le \text{tu} < 50 \text{ t}$
		with 6 axles or more: $50 \text{ t} \le \text{tu} < 60 \text{ t}$
	1	with bulk gravity unloading, on both sides, simultaneously, at the top <sup>a</sup>
	11	with bulk gravity unloading, on both sides, simultaneously, at the bottom <sup>a</sup>
	n	with 2 axles: $tu > 30 t$
		with 3 axles: $tu > 40 t$
		with 4 axles: $tu > 60 t$
		with 6 axles or more: $tu > 75 t^{c}$
	0	with axial bulk gravity unloading, at the top <sup>a</sup>
	00	with axial bulk gravity unloading, at the bottom <sup>a</sup>
	р	with axial bulk gravity unloading, at the top <sup>a</sup>
	pp	with axial bulk gravity unloading, at the bottom <sup>a</sup>

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

c. Index letter "n" shall not be marked on wagons bearing the index letter "i".



ron n	allwais solve	<u> </u>			
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				



with metal shell, **Reference** wagon for the transport of liquids or gases with 2 axles:  $25 t \le lu \le 30 t$ with 3 axles:  $25 t \le tu \le 40 t$ with 4 axles: 50 t  $\leq$  tu  $\leq$  60 t with 6 axles or more: 60 t  $\leq$  tu  $\leq$  75 t Index with 4 axles а letters with 6 axles or more aa for oil products <sup>a</sup> b with unloading under pressure <sup>b</sup> с for food and chemical products <sup>a</sup> d fitted with heating devices e 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) for the transport of gases under pressure, liquefied or dissolved under g pressure <sup>b</sup> tank of non-metallic material i with shock-absorbing device i k with 2 or 3 axles: tu < 20 twith 4 axles: tu < 40 twith 6 axles or more: tu < 50 twith 2 or 3 axles: 20 t  $\leq$  tu < 25 t kk with 4 axles:  $40 \text{ t} \le \text{tu} < 50 \text{ t}$ with 6 axles or more: 50 t  $\leq$  tu < 60 t n with 2 axles: tu > 30 twith 3 axles: tu > 40 twith 4 axles tu > 60 twith 6 axles or more: tu > 75 twith station for brakeman<sup>a</sup> р Only applicable to wagons with gauge of 1520 mm. a. The index letter "c" shall not be marked on wagons bearing the index letter "g".



# Part 12 - Letter marking for wagons

# Part 12.2 - for articulated and multiple wagons

#### **D**EFINITION 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 at 100 km/h
- ss wagons authorised to run at 120 km/h

## 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.



CATEGORY LETTER: F - OPEN HIGH-SIDED WAGON

Reference wagon		n	Articulated or multiple wagon with axles, with 2 units 22 m ≤ lu < 27 m
Index		a	with bogies
letters	s (	c	with controlled gravity unloading, on both sides, alternately, at the top <sup>a</sup>
	С	c	with controlled gravity unloading, on both sides, alternately, at the bottom <sup>a</sup>
	I	E	with 3 units
	e	ee	with 4 units or more
		f	suitable for traffic with Great Britain
	f	ff	suitable for traffic with Great Britain (by tunnel exclusively)
	f	ff	suitable for traffic with Great Britain (by train-ferry exclusively)
		1	with bulk gravity unloading, on both sides, simultaneously, at the top <sup>a</sup>
	1	11	with bulk gravity unloading, on both sides, simultaneously, at the bottom <sup>a</sup>
	r	n	with 2 units: $lu \ge 27 m$
	m	nm	with 2 units: lu < 22 m
	(	0	with axial bulk gravity unloading, at the top <sup>a</sup>
	0	00	with axial bulk gravity unloading, at the bottom <sup>a</sup>
	1	р	with axial controlled gravity unloading, at the top <sup>a</sup>
	р	р	with axial controlled gravity unloading, at the bottom <sup>a</sup>
	1	r	articulated wagon
	r	r	multiple wagon
-			n category F are open wagons, which do not have a flat floor and are not designed for end or side tipping.
	-	-	ns is defined by a combination of the following characteristics:
Arrangement of - axial:	ů	•	bove the centre of the track
- bilateral:	1		side of the track, outside the rails
	(For these wa		
- 8		-	ete emptying of the wagon requires the apertures to be open on both sides,
- 2	alternate, if com	iplete e	mptying 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 unloadi	ng:		
- bulk:	Once the ape	ertures a	are open for unloading, they cannot be closed again until the wagon is empty
- controlled:	At any time of	during	unloading, the flow of the goods can be regulated or even stopped



**CATEGORY LETTER: H - COVERED WAGON** 

Reference wagon		articulated or multiple wagon with axles, with 2 units
		$22 \text{ m} \le \text{lu} < 27 \text{ m}$
Index	a	with bogies
letters	с	with end doors
	сс	with end doors and fitted internally for the transport of motor cars
	d	with floor traps
	e	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 <sup>a</sup>
	i	with opening or shunt walls
	ii	with very robust opening or shunt walls <sup>b</sup>
	1	with movable partitions <sup>c</sup>
	11	with lockable movable partitions <sup>c</sup>
	m	with 2 units: $lu \ge 27 m$
	mm	with 2 units: lu < 22 m
	r	articulated wagon
	rr	multiple wagon

c. Movable partitions may be dismounted temporarily.



**CATEGORY LETTER: I - TEMPERATURE CONTROLLED WAGON** 

Reference wagon		refrigerator wagon with class IN thermal insulation, with motor-driven ventilation, with gratings and ice bunker ≥ 3,5 m <sup>2</sup> articulated or multiple wagon with axles, with 2 units 22 m ≤ lu < 27 m
Index	a	with bogies
letters	с	with meat hooks
	d	for fish
	e	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 <sup>a</sup>
	gg	refrigerator with liquefied gas <sup>a</sup>
	h	with class IR thermal insulation
	i	mechanically refrigerated by the machinery of an accompanying technical wagon <sup>a b</sup>
	ii	accompanying technical wagon <sup>a b</sup>
	1	insulated without ice bunkers <sup>a c</sup>
	m	with 2 units: $lu \ge 27 m$
	mm	with 2 units: lu < 22 m
	0	with ice bunkers of capacity less than 3,5 m <sup>3 c</sup>
	00	with 3 units
	р	without gratings
	r	articulated wagon
	rr	multiple wagon

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



## CATEGORY LETTER: L - FLAT WAGON WITH SEPARATE AXLES

Reference wagon		articulated or multiple wagon with 2 units
		$22 \text{ m} \le \text{lu} < 27 \text{ m}$
Index	a	articulated wagon
letters	aa	multiple wagon
	b	with special fittings for securing purposes for medium-sized containers (pa) <sup>a</sup>
	с	with swivelling bolster <sup>a</sup>
	d	fitted out for the transport of motor cars, without deck <sup>a</sup>
	e	with decks for the transport of motor cars <sup>a</sup>
	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 <sup>a b</sup>
	h	fitted out for the transport of steel coils, eye to side <sup>a c</sup>
	hh	fitted out for the transport of steel coils, eye to sky <sup>a c</sup>
	i	with removable cover and non-removable ends <sup>a</sup>
	ii	with very robust removable metallic cover <sup>d</sup> and non-removable ends <sup>a</sup>
	j	with shock-absorbing device
	1	without stanchions <sup>a</sup>
	m	with 2 units: $18 \text{ m} \le \text{lu} < 22 \text{ m}$
	mm	with 2 units: lu < 18 m
	0	with 3 units
	00	with 4 units or more
	р	without sides <sup>a</sup>
	r	with 2 units: $lu \ge 27 m$
numerical codes	must always co	ters "l" or "p" is optional for wagons bearing the index letters "b", "c", "d", "e", "g", "h", "hh", "i" or "ii". E rrespond to letter markings on wagons. port of containers (except pa).

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

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



CATEGORY LETTER: S - FLAT BOGIE WAGON
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Reference wagon		articulated or multiple wagon with 2 units
	1	$22 \text{ m} \le \text{lu} < 27 \text{ m}$
Index	b	with special fittings for securing purposes for medium-sized containers (pa) <sup>a</sup>
letters	с	with swivelling bolster <sup>a</sup>
	d	fitted out for the transport of motor cars, without deck <sup>a b</sup>
	e	with decks for the transport of motor cars <sup>a</sup>
	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) <sup>a b</sup>
	gg	fitted for the transport of containers, total loading length $> 60$ ' (except pa) <sup>a b c</sup>
	h	fitted out for the transport of steel coils, eye to side <sup>a d</sup>
	hh	fitted out for the transport of steel coils, eye to sky <sup>a d</sup>
	hhh	fitted out transport of steel coils, eye longitudinal
	i	with removable cover and non-removable ends <sup>a</sup>
	ii	with very robust removable metallic cover <sup>e</sup> and non-removable ends <sup>a</sup>
	j	with shock-absorbing device
	1	without stanchions <sup>a</sup>
	m	with 2 units: $lu \ge 27 m$
	mm	with 2 units: lu < 22 m
	0	with 3 units
	00	with 4 units or more
	р	without sides <sup>a</sup>
	r	articulated wagon
	rr	multiple wagon

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.



## CATEGORY LETTER: T - WAGON WITH OPENING ROOF

Reference wagon		articulated or multiple wagon with axles, with 2 units			
		$22 \text{ m} \le \text{lu} < 27 \text{ m}$			
Index	0	with bogies			
	a b	with bogies with unobstructed height of doors $> 1,90$ m <sup>a</sup>			
letters					
	C 1	with end doors			
	d	with controlled gravity unloading, on both sides, alternately, at the top <sup>b</sup>			
	dd	with controlled gravity unloading, on both sides, alternately, at the bottom <sup>a b</sup>			
	e	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 <sup>a</sup>			
	j	with shock-absorbing device			
	1	with bulk gravity unloading, on both sides, simultaneously, at the top <sup>a b</sup>			
	11	with bulk gravity unloading, on both sides, simultaneously, at the bottom <sup>a</sup>			
		b			
	m	with 2 units: $lu \ge 27 m$			
	mm	with 2 units: lu < 22 m			
	0	with axial bulk gravity unloading, at the top <sup>a b</sup>			
	00	with axial bulk gravity unloading, at the bottom <sup>a b</sup>			
	р	with axial controlled gravity unloading, at the top <sup>a b</sup>			
	pp	with axial controlled gravity unloading, at the bottom <sup>a b</sup>			
	r	articulated wagon			
	rr	multiple wagon			
<ul> <li>a. Index letter "b" shall not be marked on wagons bearing the index letters "d", "dd", "i", "l", "l", "o", "oo", "p" or "pp".</li> <li>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.</li> </ul>					
	The method of unloading these wagons is defined by a combination of the following characteristics:				
Arrangement of the unlo					
-	Apertures situated above the centre of the track 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,					
- top: The lo					
	st 0.700 m above the rail, and allows for the use of a conveyor belt to take away the goods e 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			



Reference wagon		articulated or multiple wagon,	
		with axles, with 2 units	
		$22 \text{ m} \le \text{lu} < 27 \text{ m}$	
Index	a	with bogies $22 \text{ m} \le 10 < 27 \text{ m}$	
letters	e a	with 3 units	
icticits	ee	with 5 units with 4 units or more	
	c	with unloading under pressure	
	d	with controlled gravity unloading, on both sides, alternately, at the top <sup>a</sup>	
	dd	with controlled gravity unloading, on both sides, alternately, at the top	
	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 <sup>b</sup>	
	1	with bulk gravity unloading, on both sides, simultaneously, at the top <sup>a</sup>	
	11	with bulk gravity unloading, on both sides, simultaneously, at the bottom <sup>a</sup>	
	m	with 2 units: $lu \ge 27 m$	
	mm	with 2 units: lu < 22 m	
	0	with axial bulk gravity unloading, at the top <sup>a</sup>	
	00	with axial bulk gravity unloading, at the bottom <sup>a b</sup>	
	р	with axial controlled gravity unloading, at the top <sup>a</sup>	
	pp	with axial controlled gravity unloading, at the bottom <sup>a</sup>	
	r	articulated wagon	
	rr	multiple wagon	
top part of the designed for er b. In particular: - well wagons - wagons with	body, and whose nd or side tipping. a central recess	in category U are closed wagons which can only be loaded through one or more loading apertures situated in at the total opening dimensions are less than the length of the body; these wagons do not have a flat floor and are not are diagonal permanent control desk	
The method of unlo	bading these wage	ns is defined by a combination of the following characteristics:	
Arrangement of the	unloading aperti	ires:	
	-	above the centre of the track	
	•	side of the track, outside the rails. (For these wagons, unloading is:	
	-	lete emptying of the wagon requires the apertures to be open on both sides,	
	-	emptying of the wagon can take place by opening the apertures on one side only)	
le	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 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:	r or uit		
	nce the apertures	are open for unloading, they cannot be closed again until the wagon is empty	
- bulk: O			



Reference w	agon	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	a	with bogies
letters	с	with unloading under pressure <sup>a</sup>
	e	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 <sup>a</sup>
	i	tank of non-metallic material
	j	with shock-absorbing device
	m	with 2 units: $lu \ge 27 m$
	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 "c	shall not be	marked on wagons bearing the index letter "g".