
Changes to legislation: There are outstanding changes not yet made to Regulation (EC) No 1222/2009 of the European Parliament and of the Council. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

Regulation (EC) No 1222/2009 of the European Parliament and of the Council of 25 November 2009 on the labelling of tyres with respect to fuel efficiency and other essential parameters (Text with EEA relevance)

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ANNEX I

GRADING OF TYRE PARAMETERS

Part A: Fuel efficiency classes

[^{F1}The fuel efficiency class must be determined on the basis of the rolling resistance coefficient (*RRC*) according to the 'A' to 'G' scale specified below and measured in accordance with Annex 6 of UNECE Regulation No 117 and its subsequent amendments and aligned according to the procedure laid down in Annex IVa.]

Textual Amendments

- F1** Substituted by Commission Regulation (EU) No 1235/2011 of 29 November 2011 amending Regulation (EC) No 1222/2009 of the European Parliament and of the Council with regard to the wet grip grading of tyres, the measurement of rolling resistance and the verification procedure (Text with EEA relevance).

If a tyre type is approved for more than one tyre class (e.g. C1 and C2), the grading scale used to determine the fuel efficiency class of this tyre type should be that which is applicable to the highest tyre class (e.g. C2, not C1).

C1 tyres		C2 tyres		C3 tyres	
<i>RRC</i> in kg/t	Energy efficiency class	<i>RRC</i> in kg/t	Energy efficiency class	<i>RRC</i> in kg/t	Energy efficiency class
$RRC \leq 6,5$	A	$RRC \leq 5,5$	A	$RRC \leq 4,0$	A
$6,6 \leq RRC \leq 7,7$	B	$5,6 \leq RRC \leq 6,7$	B	$4,1 \leq RRC \leq 5,0$	B
$7,8 \leq RRC \leq 9,0$	C	$6,8 \leq RRC \leq 8,0$	C	$5,1 \leq RRC \leq 6,0$	C
Empty	D	Empty	D	$6,1 \leq RRC \leq 7,0$	D
$9,1 \leq RRC \leq 10,5$	E	$8,1 \leq RRC \leq 9,2$	E	$7,1 \leq RRC \leq 8,0$	E
$10,6 \leq RRC \leq 12,0$	F	$9,3 \leq RRC \leq 10,5$	F	$RRC \geq 8,1$	F
$RRC \geq 12,1$	G	$RRC \geq 10,6$	G	Empty	G

Part B: Wet grip classes

[^{F1}1. The wet grip class of C1 tyres must be determined on the basis of the wet grip index (*G*) according to the 'A' to 'G' scale specified in the table below, calculated in accordance with point 3 and measured in accordance with Annex V.

2. The wet grip class of C2 and C3 tyres must be determined on the basis of the wet grip index (*G*) according to the 'A' to 'G' scale specified in the table below, calculated in

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accordance with point (3) and measured in accordance with ISO 15222:2011 whereby the following Standard Reference Test Tyres (SRTT) must be used:

- (i) for C2 tyres, the SRTT 225/75 R 16 C, ASTM F 2872-11;
- (ii) for C3 tyres having Nominal Section Width lower than 285 mm, the SRTT 245/70R19.5, ASTM F 2871-11;
- (iii) for C3 tyres having Nominal Section Width greater than or equal to 285 mm, the SRTT 315/70R22.5, ASTM F 2870-11.

3. Calculation of wet grip index (G)

$$G = G(T) - 0,03$$




where: $G(T)$ = wet grip index of the candidate tyre as measured in one test cycle

C1 tyres		C2 tyres		C3 tyres	
G	Wet grip class	G	Wet grip class	G	Wet grip class
$1,55 \leq G$	A	$1,40 \leq G$	A	$1,25 \leq G$	A
$1,40 \leq G \leq 1,54$	B	$1,25 \leq G \leq 1,39$	B	$1,10 \leq G \leq 1,24$	B
$1,25 \leq G \leq 1,39$	C	$1,10 \leq G \leq 1,24$	C	$0,95 \leq G \leq 1,09$	C
Empty	D	Empty	D	$0,80 \leq G \leq 0,94$	D
$1,10 \leq G \leq 1,24$	E	$0,95 \leq G \leq 1,09$	E	$0,65 \leq G \leq 0,79$	E
$G \leq 1,09$	F	$G \leq 0,94$	F	$G \leq 0,64$	F
Empty	G	Empty	G	Empty	G]

Part C: External rolling noise classes and measured value

The external rolling noise measured value (N) must be declared in decibels and calculated in accordance with UNECE Regulation No 117 and its subsequent amendments.

The external rolling noise class must be determined on the basis of the limit values (LV) set out in Part C of Annex II of Regulation (EC) No 661/2009 as follows.

N in dB	External rolling noise class
$N \leq LV - 3$	
$LV - 3 < N \leq LV$	
$N > LV$	

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Changes and effects yet to be applied to the whole legislation item and associated provisions

- Signature words omitted by [S.I. 2020/1509 reg. 18\(8\)](#)
- Annex 3 para. 3(i) words substituted by [S.I. 2020/1509 reg. 18\(9\)](#)
- Art. 3(7) words substituted by [S.I. 2020/1509 reg. 18\(2\)\(a\)\(i\)](#)
- Art. 3(7) words substituted by [S.I. 2020/1509 reg. 18\(2\)\(a\)\(ii\)](#)
- Art. 3(8) words substituted by [S.I. 2020/1509 reg. 18\(2\)\(b\)](#)
- Art. 3(9) words substituted by [S.I. 2020/1509 reg. 18\(2\)\(c\)](#)
- Art. 3(11) words substituted by [S.I. 2020/1509 reg. 18\(2\)\(d\)](#)
- Art. 3(14) inserted by [S.I. 2020/1509 reg. 18\(2\)\(e\)](#)
- Art. 4(2a) inserted by [S.I. 2020/1509 reg. 18\(3\)\(b\)](#)