

Tyre Noise: legal requirements EC Directive (2001/43/EC) and UN/ECE Regulation (117)

Brussels, 7th July 2009

Summary of the legal noise requirements applicable over the next few years:

- **EC Directive 2001/43/EC**

From 1st October 2009 **EC Directive 2001/43/EC** will come progressively into effect according to the following timetable. From these dates **all new tyres sold or entering service in the EU market** must carry the appropriate marking.

From 1st October 2009:

Tyres class C1 (ECE-R 30) = **passenger tyres** of width $\leq 185\text{mm}$,

Tyres class C2 (ECE-R 54) = **small commercial tyres** with Load Index (single) ≤ 121 and Speed Symbol $\geq N$,

Tyres class C3 (ECE-R 54) = **commercial tyres** with Load Index (single) ≥ 122 or with Load Index (single) ≤ 121 and Speed Symbol $\leq M$

From 1st October 2010:

Tyres class C1 (ECE-R 30) = **passenger tyres** of width $195 \leq w \leq 215 \text{ mm}$

From 1st October 2011

Tyres class C1 (ECE-R 30) = **passenger tyres**, width $> 215 \text{ mm}$

To comply with current requirements on Tyre noise, tyres may be approved to either EC Directive 2001/43/EC or UN/ECE Regulation 117. Hence tyres may be marked on the sidewall in a variety of different ways.

Tyres compliant with **2001/43/EC** should be marked on the sidewall as shown in the example below:

e4 0223345 - S

Note the number 4 shown in the box/circle is an example only and the actual number will be dependent upon which European Member State has approved the product

- **UN/ECE Regulation 117**

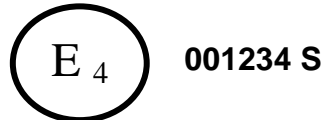
This Regulation initially covered approval of tyres with regard to rolling sound emissions, and has been amended to cover adhesion on wet surfaces (wet adhesion applies to C1-passenger car tyres only).

As with EC Directive 2001/43/EC noise limits by tyre type and size are specified within Regulation 117 and mirror those in the Directive.

By implication tyres which are approved to the noise section of Regulation 117 will automatically comply with EC Directive 2001/43/EC.

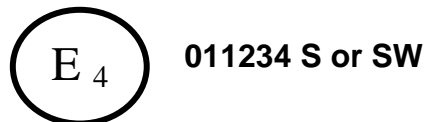
Tyres compliant with Regulation 117 should be marked on the sidewall as shown in the examples below:

Example 1



Example 1 shows approval to Regulation 117 in its original form – denoted by '00' as the first two digits of the approval number.

Example 2

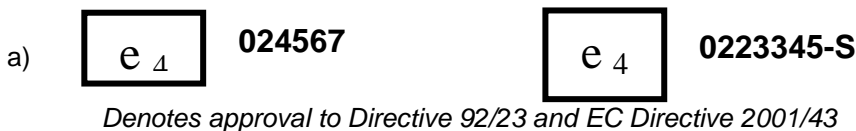


Example 2 shows approval to Regulation 117 in its amended form, marked with 'S' for rolling sound or 'SW' to indicate approval for rolling sound and wet grip. The first two digits of the approval number '01' indicate approval to the 01 series of amendments.

All tyres of classes C1 (Passenger), C2 (Light Commercial) and C3 (Heavy Commercial) must show approval to EC Directive 92/23 [e-marking] or Regulation 30 (C1), Regulation 54 (C2 and C3) – [E-marking].

Rolling Sound Approval is to be marked in addition to these markings.

Possible combinations for C1 (Passenger) tyres

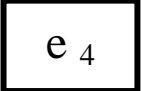



e)  **024567 + S or +SW 01**

Denotes approval to Regulation 30 extended to show approval to Regulation 117, the '01' shows approval to the first series of amendments of Regulation 117.

For C2 (Light commercial) and C3 (Heavy commercial) tyres the Regulation 30 approval number would be replaced by the appropriate Regulation 54 approval number and would start with the digits '00'.

NOTE: The shape of the symbol within which is contained the "e" or "E" number denotes if the compliance is given under EU Directive or UNECE Regulation e.g.

 Denotes compliance to a European Directive

 Denotes compliance to a UNECE Regulation

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