

Strengthening Tyre Limits

Regulation 661/2009 and 1222/2009

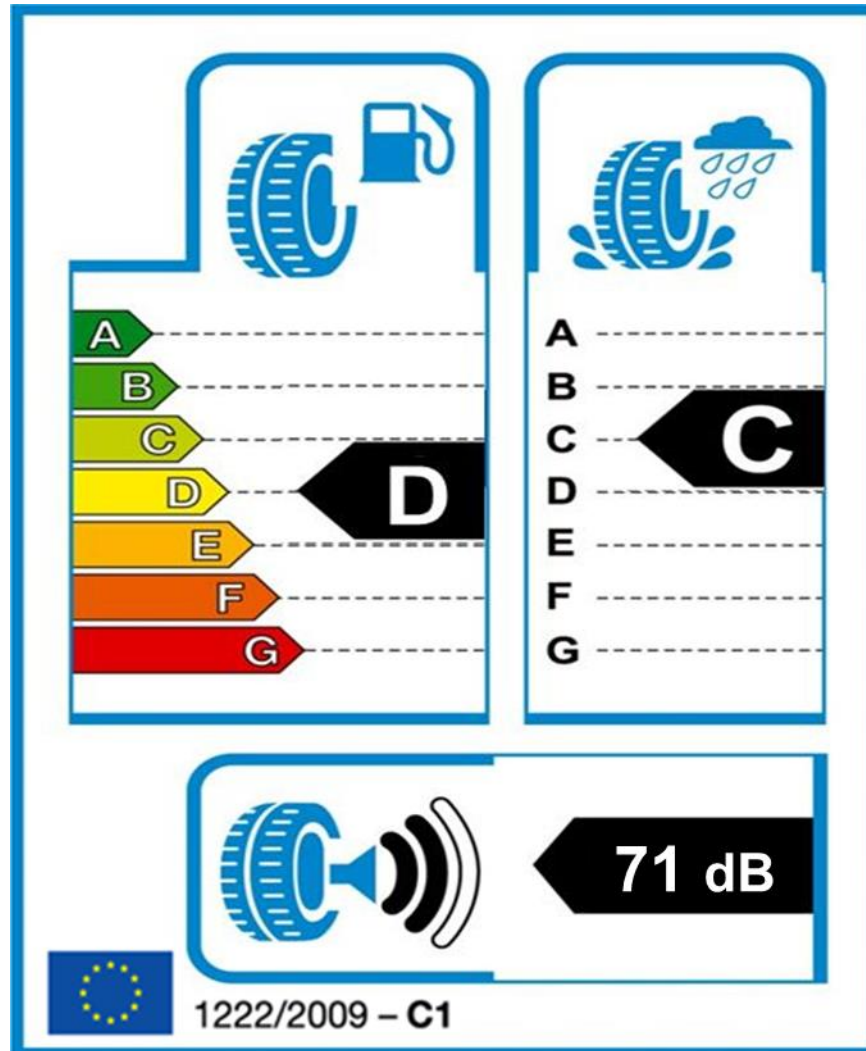
Johan Sliggers

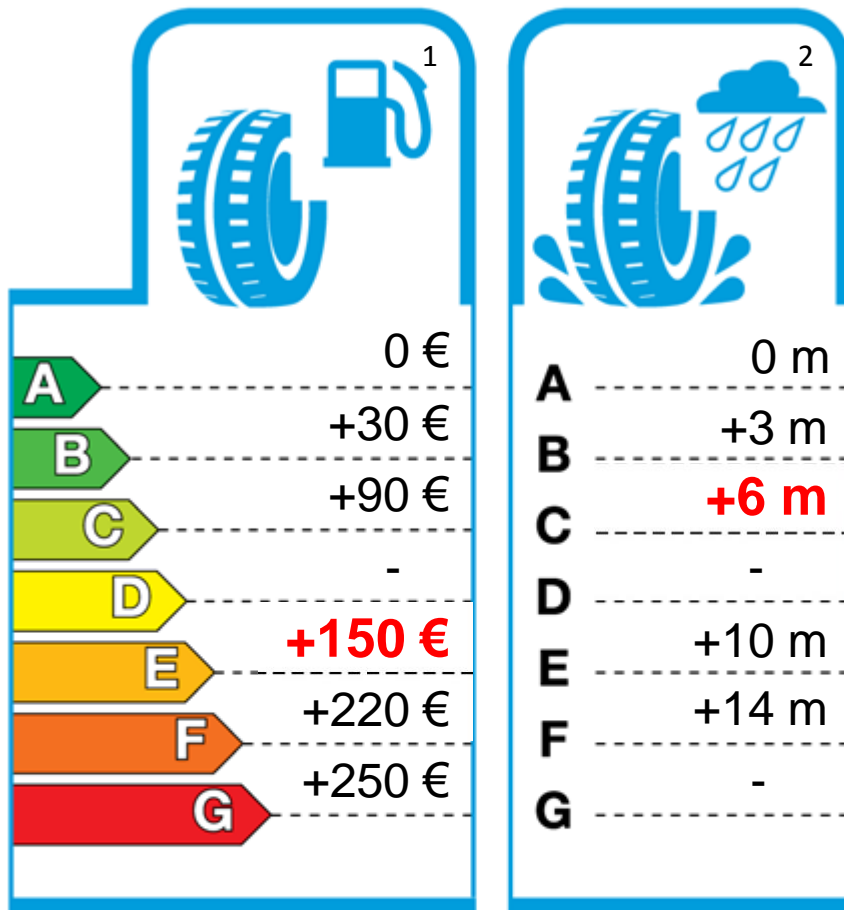
Ministry of Infrastructure and the Environment

The Netherlands

132nd MVWG, July 2016

The average tyre label in the NLs





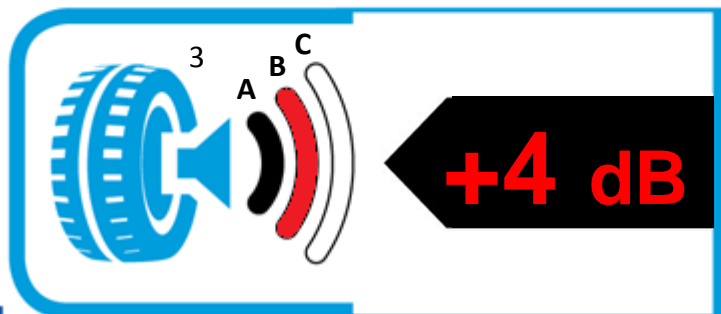
¹ Extra fuel costs per year (17000 km/yr)

² Extra braking distance wet road at 80 km/h (Braking distance A=27 m)

³ Noise*

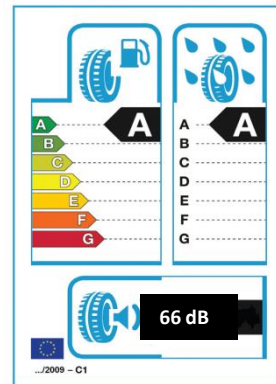
- A: 2 times as quiet
- B: average
- C: 2 times as loud

* Doubling noise is 3 dB



***Triple-A* tyres – benefits for environment, noise, safety and economy**

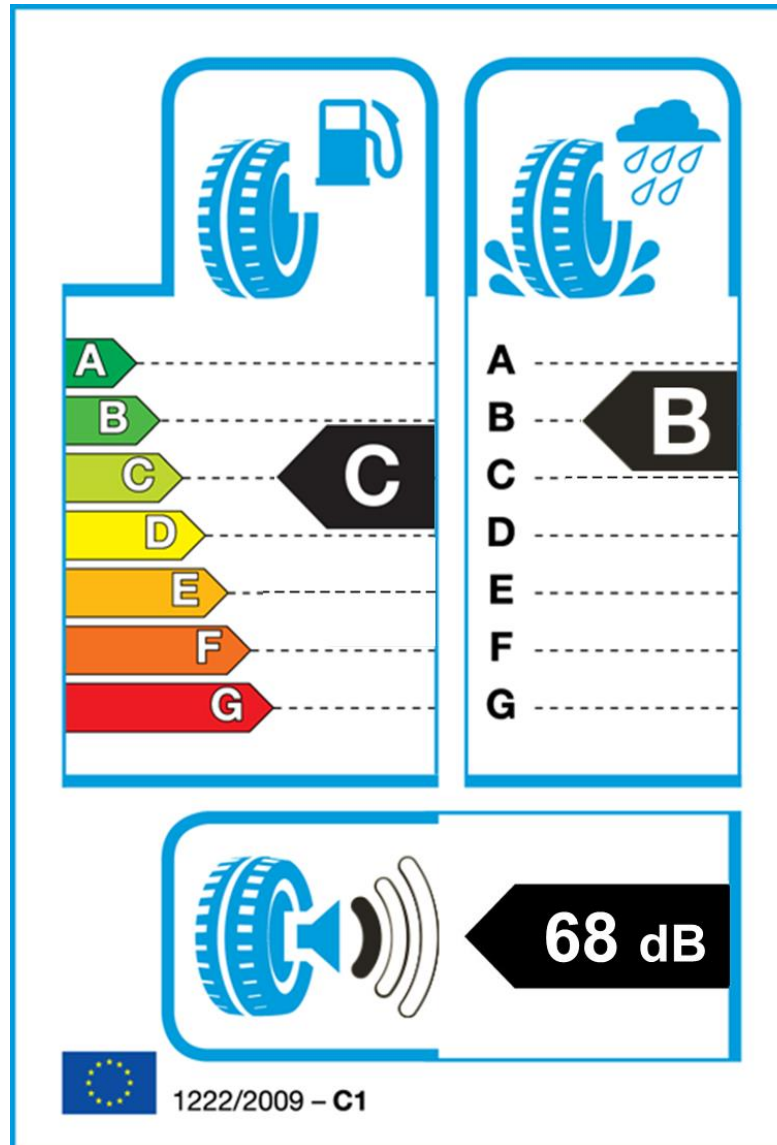
Results of 'Potential benefits of Triple-A tyres in the Netherlands' and the EU, a study performed by order of the Dutch Ministry of Infrastructure & Environment



Potential Benefits Best Tyres in EU

| Potential benefits | Energy | Safety | Noise | TOTAL |
|--|-----------|-------------------------|-----------|-----------|
| Annual fuel savings [billion l] | 17 | - | - | |
| Annual CO ₂ reduction [MtCO ₂] | 42 | - | - | |
| Reduced number of fatalities | - | 2567 | - | |
| Reduced number of slight/serious injuries | - | 19631/ 12353 | - | |
| Reduced number of annoyed people [millions] | - | - | 13 | |
| Reduced number of sleep disturbed people [millions] | - | - | 6 | |
| Annual cost savings [billion €] | 13 | 10 | 11 | 34 |

Tyre label (Reg. 1222/2009)



Rolling resistance (Reg. 661/2009)

| Tyre type | Current value (kg/ton) | Suggestion NLs |
|-----------|------------------------|----------------|
| C1 | ≤ 10.5 | -1.5 |
| C2 | ≤ 9.0 | -1.0 |
| C3 | ≤ 6.5 | -0.5 |

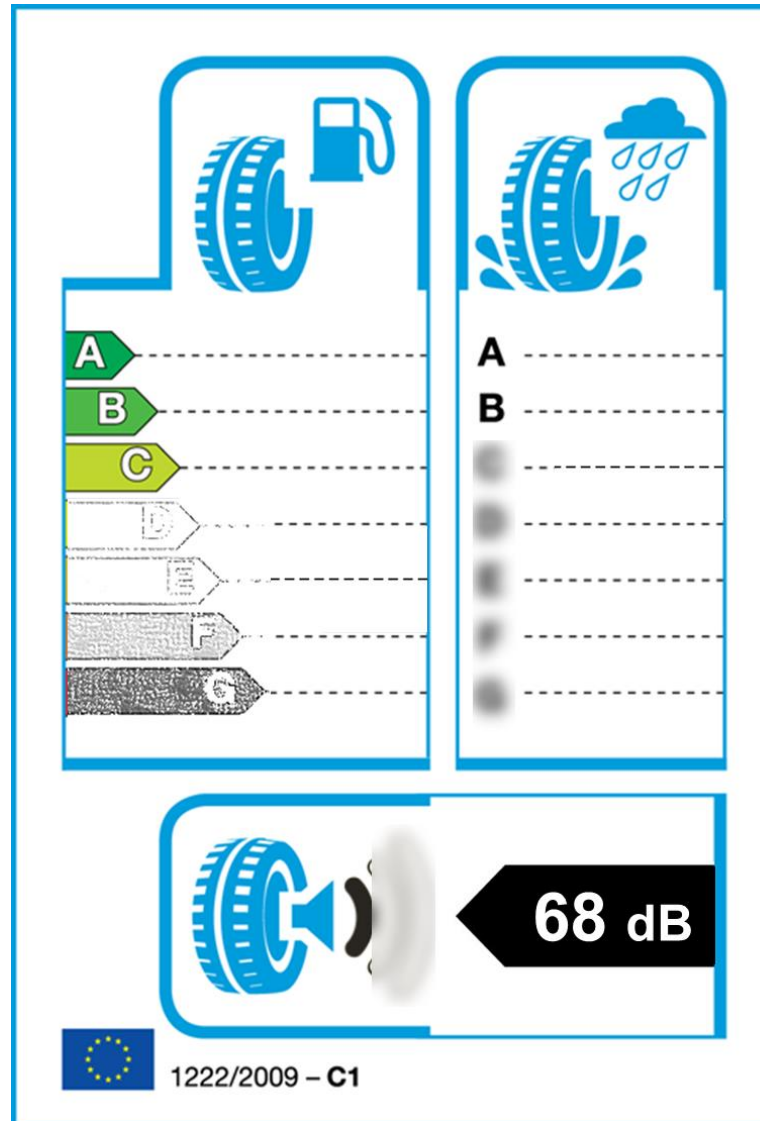
Wet grip indexes (Reg. 661/2009)

| Tyre type | Current value (G) | Suggestion NLs |
|-----------|-----------------------|----------------|
| C1 | ≥ 1.1 (1.0; 0.9) | +0.3 |
| C2 | ≥ 0.95 (0.85) | +0.3 |
| C3 | ≥ 0.80 (0.65) | +0.3 |

External Noise (Reg. 661/2009)

| Tyre type | Current limit value (dB(A)) | Suggestion NLs |
|------------------|------------------------------------|-----------------------|
| C1A-E | 70-74 | -3dB |
| C2 | 72-73 | -2dB |
| C3 | 73-75 | -4dB |

Tyre label (Reg. 1222/2009)



Potential Benefits EU of NLs suggestion

| Potential benefits | Energy | Safety | Noise | TOTAL |
|--|-----------|-------------------------|----------|-----------|
| Annual fuel savings [billion l] | 13.5 | - | - | |
| Annual CO ₂ reduction [MtCO ₂] | 35 | - | - | |
| Reduced number of fatalities | - | 2000 | - | |
| Reduced number of slight/serious injuries | - | 15000/ 10000 | - | |
| Reduced number of annoyed people [millions] | - | - | 9 | |
| Reduced number of sleep disturbed people [millions] | - | - | 4 | |
| Annual cost savings [billion €] | 10 | 8 | 8 | 26 |

Question to the European Commission

-Please start with the evaluation and subsequent strengthening of the limit values for tyres on wet grip, rolling resistance and noise (Regulation 661/2009).

-Adjust Regulation on Tyre Labelling accordingly (Regulation 1222/2009)