








EC Type Approval is a legal requirement for all EU countries to have a common process for the “approval of motor vehicles and their trailers and of systems, components and separate technical units intended for such vehicles”. This means European approval has been extended from cars to all commercial vehicles and trailers. The manufacturer can now apply for homologation in any member state.

The relevant directive for EC Type Approval is frame directive 2007/46/EC which was introduced on 29 October 2007 and provides a European-wide mechanism for ensuring that these vehicles meet appropriate environmental and safety standards.

To obtain above homologation, vehicles of categories N and O must be fitted with anti-spray devices according to Regulation (EC) No. 661/2009 amended by Regulation (EC) No. 407/2011. The former repeals ‘Spray Directive’ 91/226/EEC amended by Directive 2010/19/EU. The requirements set out in Directive 91/226/EEC are to be carried over to this Regulation. Regulation (EU) No 109/2011 implements Regulation (EC) No. 661/2009. The former ‘shall be binding in its entirety and directly applicable in all Member States’. Member states must not refuse to grant EC or national type approval to a vehicle complying with above requirements, but must refuse both EC and national type approval should a vehicle not comply with these requirements. When applying for EC type approval for completed vehicles under above Frame Directive, vehicle types which already were granted type approval covering spray suppression, EC or national, need not comply with the Regulation (EC) No. 661/2009.

**SCOPE**

Goods Vehicles				
Category		Description	Weight	Spray Directive
N		Motor vehicles with at least 4 wheels designed and constructed for the carriage of goods		<b>Mandatory</b> (exemptions see below)
N <sub>1</sub>		Goods vehicles	No more than 3.5 t	<b>Optional</b>
N <sub>2</sub>		Medium size vans and trucks	Over 3.5 t but no more than 12 t	<b>Optional up to 7.5 t</b> <b>Mandatory over 7.5 t</b>
N <sub>3</sub>		Heavy trucks and vans	Over 12 t	<b>Mandatory</b>
Trailers				
O		Trailers (including semi-trailers)		<b>Mandatory</b> (exemptions see below)
O <sub>1</sub>		Small trailers	No more than 0.75 t	<b>Optional</b>
O <sub>2</sub>		Trailers	Over 0.75 t but no more than 3.5 t	<b>Optional</b>
O <sub>3</sub>		Medium trailers	Over 3.5 t but no more than 10 t	<b>Mandatory</b>
O <sub>4</sub>		Heavy trailers	Over 10 t	<b>Mandatory</b>

Note: Off-road vehicles as defined in Annex II (Point 4) in Directive 2007/46/EC are exempted.

**IMPORTANT**

With effect from 01 November 2014 Regulation (EC) No. 661/2009 repeals 50 Directives in Annex IV of Frame Directive 2007/46/EC and replaces them with equivalent UNECE Regulations (United Nations Economic Commission of Europe) as detailed in Regulation (EC) No 407/2011.

All Measurements to be taken on an unladen vehicle, with bodywork, and in running order with coolant, lubricants, fuel, tools, spare wheel and driver.

Tractor units of articulated vehicles should have an unladen semi trailer hitched to the 5th wheel.

For semi trailers of articulated vehicles the load platform should be horizontal.

In all cases the wheels should face straight ahead with all tyres in nominal new condition.



**Flap & Mudguard Fitment**



V = 100 mm max  
- Distance between  
Mudguard valance  
and tyre wall -

**KEY**



Air suspension

Mechanical suspension



Steered



Non-steered



Vehicle



$R_v \leq 1.5 R$

$R_v \leq 1.25 R$



$R_v \leq 1.8 R$

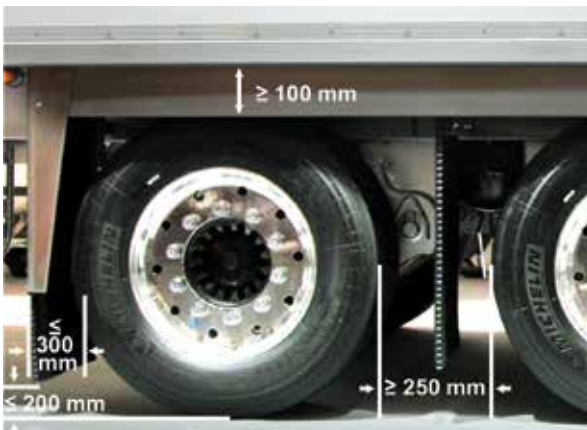
$> 7.5 t$

$R_v \leq 1.5 R$

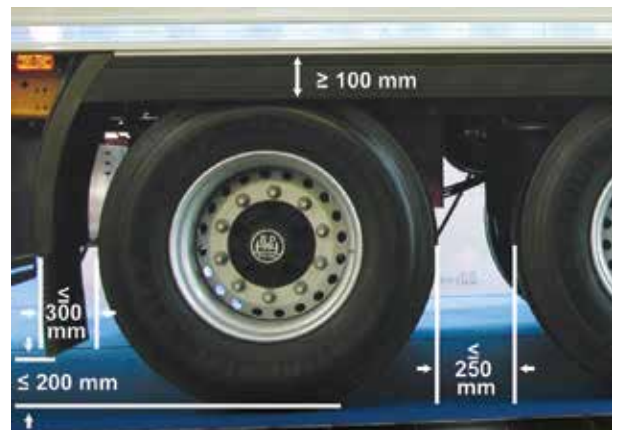
\*applies also to the first wheel of multiple axles



\*  $\leq 300$  mm on last axle if  $R_v \leq R$  or appropriate with suspension characteristics



**Flap & Valance Fitment**



**Multiple Axle Flap Requirements**



Flaps required

No Flaps required

Above information is to our best knowledge true and accurate, but all recommendations or suggestions are made without guarantee. The following Directives/Regulations were consulted: 2007/46/EC, 2010/19/EU, No 661/2009, No 109/2011, No 407/2011, No 678/2011, No 214/2014.

For updates please refer to: [http://eur-lex.europa.eu/homepage.html?ELX\\_SESSIONID=WTCITXncq1VNvh3598L1vQ4XT7z09VYJpY9QLKsn2JB3Jl?locale=en](http://eur-lex.europa.eu/homepage.html?ELX_SESSIONID=WTCITXncq1VNvh3598L1vQ4XT7z09VYJpY9QLKsn2JB3Jl?locale=en)