

SCHEDULE 4

Technical and Administrative Requirements for Grant of National Small Series Type Approval

PART 2

Requirements for Vehicles of Category M₁

SECTION 1

1. Requirement	2 Definitions and supplementary provisions	3 Exemptions and modifications
1. Noise		
<p>The technical provisions of Annex I to Directive 70/157/EEC as amended by Directive 1999/101/EC;</p> <p>Or:</p> <p>Vehicles for which an approval or test report has been issued prior to modification of the exhaust system, a Stationary Noise Test is permitted.</p>	<p>“Stationary Noise Test” means:</p> <p>(a) in the case of a modified exhaust system, a stationary test as defined in paragraphs 5.2.3.4.2 and 5.2.3.4.3 of Annex I to Directive 70/157/EEC with a noise limit value measured on the dB(A) scale which must not exceed the equivalent stationary value recorded on the approval, certificate of conformity or test report for that vehicle by more than 2dB(A) at 0.5m; and</p> <p>(b) in the case of vehicles having a maximum permissible mass exceeding 2800kg fitted with a modified air brake system, a test report to paragraph 5.4 of Annex I to Directive 70/157/EC (except that this shall not apply if proprietary</p>	<ol style="list-style-type: none"> 1. Directive 70/157/EEC, Annex I, paragraphs 5.3.1.1, 5.3.1.2. and 5.3.1.3. 2. Modification of the exhaust system length after last silencer not exceeding 2m is permissible without further test. 3. The requirements according to the category of the base or incomplete vehicle based on maximum mass may apply.

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1. Requirement	2 Definitions and supplementary provisions	3 Exemptions and modifications
	air brake silencers are fitted).	
2. Emissions		
<p>1. The technical provisions of Annex I to Directive 70/220/EEC as amended by Directive 2003/76/EC, Row B limit values.</p> <p>2. Vehicles manufactured on or after 1st January 2012:</p> <p>The technical provisions of Regulation (EC) 715/2007 as amended by Regulation (EC) 692/2008, Annex I, Table 1.</p> <p>3. Vehicles manufactured on or after 1st September 2016: the technical provisions of Regulation (EC) 715/2007 as amended by Regulation (EC) 692/2008, Annex I, Table 2.</p>	<p>“OBD” means On-board Diagnostic Systems.</p>	<p>1. The tests in paragraph 5.2 of Directive 70/220/EEC are to be limited to the following:</p> <p>(a) Paragraph 5.2.1, Type I and Type II;</p> <p>(b) Paragraph 5.2.2, Type I and Type II;</p> <p>(c) Paragraph 5.2.3, Type I.</p> <p>2. Vehicles are exempt from the requirements of OBD.</p> <p>3. This item does not apply to vehicles approved to item 41.</p> <p>4. Modification of the exhaust system is permitted without any further test provided the emission control devices including particulate filters (if any) are not affected.</p> <p>5. The requirements according to the category of the base or incomplete vehicle based on maximum mass may apply.</p> <p>6. An Approval issued to the most representative base vehicle remains valid irrespective of change in the reference mass.</p> <p>7. In the case of armoured vehicles exemption from any requirement of this item is permitted if it can be demonstrated to the satisfaction of the approval authority that it is impossible for the vehicle to comply due to its special purpose.</p>
3. Fuel Tanks/ Rear Protective Devices		
<p>1. Fuel tanks:</p> <p>The technical provisions of Directive 70/221/EEC as last amended by directive 2006/20/EC;</p> <p>And</p> <p>For vehicles using gaseous fuels:</p>		<p>2. In the case of fuel tanks other than tanks for gaseous fuels:</p> <p>(a) tanks must comply with the requirements specified in column 1 except that the approval or test report need not be for the same vehicle type; and</p>

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<p>Regulations 67.01 and 115 for LPG. Regulation 110 and 115 for CNG.</p> <p>2. Rear Protective Device: The technical provisions of Directive 70/221/EEC as last amended by directive 2006/20/EC.</p>		<p>(b) modifications to the pipework or relocation of a tank excluding modification of the tank, the cap/filler device or the venting device, may be accepted by the approval authority.</p>
4. Rear Registration Plate Space		
<p>The technical provisions of Directive 70/222/EEC;</p> <p>Or:</p> <p>Space shall be provided for a registration plate meeting the requirements of the Display of Registration Marks Regulations 2001(1).</p>		
5. Steering Equipment		
<p>The essential technical provisions of Directive 70/311/EEC as amended by Directive 99/7/EC.</p>	<p>“Manual or Power Assisted System” means a system that will operate in the event of failure of any power supply or assistance.</p>	<p>1. In the case of a Manual or Power Assisted System, paragraph 5.2 of Annex I to Directive 70/311/EEC does not apply if a driving assessment conducted by the approval authority reveals no undue steering effort, instability, or other adverse characteristics.</p> <p>2. The requirements according to the category of the base or incomplete vehicle based on maximum mass may apply.</p> <p>3. Directive 70/311/EEC, Annex I, paragraphs 4.1.1.2 and 4.2.1.1.2. does not apply to a steering control system designed to meet the needs of a driver with a physical disability.</p>
6. Door latches and Hinges		
<p>The essential technical provisions of Directive</p>		<p>1. Does not apply to doors which do not give direct access to a seat designed for normal use</p>

(1) [S.I. 2001/561](#). Relevant amendments are by [S.I. 2001/1079](#) and [2002/2687](#).

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70/387/EEC as last amended by Directive 2001/31/EC.		<p>while a vehicle is travelling on a road. This includes any door, for which the longitudinal plane passing through the extreme inboard projecting point of such a door is more than 300mm distant from the longitudinal plane passing through the nearest edge of such a seat. For the purpose of this provision the seating position of a wheelchair is considered to be a seat.</p> <p>2. This item does not apply to doors meeting the technical requirements specified in paragraphs 7.6.4 to 7.6.6 or in paragraph 7.6.7 of Annex I to Directive 2001/85/EC.</p>
7. Audible Warning		
The technical provisions of paragraph 2 of Annex I to Directive 70/388/EEC as last amended by Directive 87/354/EC.	<p>“Sound Level Check” means a vehicle test as described in the technical provisions given in column 1 except that a voltage test is not required.</p>	<p>1. Inspection to confirm the presence and operation of a device including a Sound Level Check.</p> <p>2. In the case of armoured vehicles exemption from any requirement of this item is permitted if it can be demonstrated to the satisfaction of the approval authority that it is impossible for the vehicle to comply due to its special purpose.</p> <p>3. In the case of armoured vehicles additional panic alarm devices are permitted. For the technical provisions see item 13.</p>
8. Indirect Vision		
The technical provisions of Directive 2003/97/EC.		<p>1. Field of view requirements do not apply to optional mirrors.</p> <p>2. The requirements according to the category of the base or incomplete vehicle based on maximum mass may apply.</p> <p>3. In the case of a passenger car where the longitudinal plane of the exterior bodywork on either side of the vehicle adjacent to the driver’s position on</p>

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		<p>which an exterior rear view mirror may be mounted is more than 150mm inwards from a longitudinal plane passing through the outer edge of the rear tyre(s) on that side of the vehicle the following may apply: Directive 2003/97/EC, Annex III, paragraphs 5.3.1 and 5.3.2, in the second paragraph in each case, for 1m substitute 2.125m and for 4m substitute 10m.</p> <p>4. Vehicles built before 26 January 2010: the mirrors may as an alternative be installed in accordance with Directive 71/127/EEC as amended by 88/321/EEC.</p>
9. Braking		
<p>The technical provisions of paragraph 2 of Annex I to Directive 71/320/EEC as last amended by Directive 1998/12/EC and tests as defined in associated Annexes as may be applicable.</p>		<ol style="list-style-type: none"> 1. The requirements according to the category of the base or incomplete vehicle based on maximum mass may apply. 2. The requirements in column 1 for the driver to be able to operate the service braking system while keeping both hands on the steering control, and the secondary braking system while keeping at least one hand on the steering control, do not apply to a vehicle, so long as the vehicle is adapted for a disabled driver to enable him to control the steering at all times while operating either braking system.
10. Electro-magnetic Compatibility		
<p>The essential technical provisions of Directive 72/245/EEC as last amended by Directive 2006/28/EC, section 6 of Annex I taking into consideration the exemptions in section 8 and tests specified in Annexes IV to X.</p>		<p>In the case of a vehicle adapted as a wheelchair accessible vehicle or a disabled person's vehicle, wiring may be repositioned and/or additional wiring fitted without further test.</p>

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11. Diesel Smoke		
<p>Directive 72/306/EEC as last amended by Directive 2005/21/EC section 5 of Annex I and tests as defined in Annexes IV and V;</p> <p>Or:</p> <p>A free-acceleration test, such that the coefficient of absorption of the exhaust emissions from the engine immediately after leaving the exhaust does not exceed:</p> <p>(a) If the vehicle has an effective date on or after 1 July 2008, 1.5 per metre; or</p> <p>(b) in any other case:</p> <p>(i) 2.5 per metre; or</p> <p>(ii) if the engine of the vehicle is turbo-charged, 3.0 per metre.</p>	<p>For the purposes of this item:</p> <p>“co-efficient of absorption” is to be construed in accordance with paragraph 3.5 of Annex VII to Directive 72/306/EEC;</p> <p>“free acceleration” has the same meaning as in Annex II to Directive 77/143/EEC as last amended by Directive 92/55/EEC.</p>	<ol style="list-style-type: none"> 1. Directive 72/306/EEC as amended ceases to apply from 2nd January 2013. 2. Modification of exhaust system is permissible without any further test. 3. Does not apply to a vehicle which complies with Directive 2005/55/EC as amended by Directive 2008/74/EC.
12. Interior Fittings		
<p>The essential technical provisions of Directive 74/60/EEC as amended by 2000/4/EC.</p>		<ol style="list-style-type: none"> 1. The following do not apply: <ol style="list-style-type: none"> (a) Directive 74/60/EEC, Annex I, Paragraphs 5.1.2, 5.2.4, 5.3.4.1, 5.4.2.2, 5.7.1.2 and the second sentence of 5.2.3.1.; and (b) the requirements as they apply to hood or tonneau cover press studs fitted to a convertible vehicle so long as they are blunted. 2. The requirements in column 1 are limited to the area forward of rearmost seat designated for use while travelling and limited to head impact zone. 3. For the purpose of this requirement a wheelchair is considered to be a seating position. 4. In the case of a motor caravan, ambulance, or hearse with a maximum mass equal to

1. Requirement	2 Definitions and supplementary provisions	3 Exemptions and modifications
		<p>or exceeding 2500kg the requirements according to the category of the base or incomplete vehicle based on maximum mass may apply.</p> <p>5. In the case of armoured vehicles exemption from any requirement of this item is permitted if it can be demonstrated to the satisfaction of the approval authority that it is impossible for the vehicle to comply due to its special purpose.</p>
13. Anti-Theft and Immobiliser		
<p>1. The technical provisions of Directive 74/61/EEC as last amended by Directive 95/56/EC.</p> <p>2. In the case of an armoured vehicle fitted with an optional panic alarm not forming part of an alarm system under paragraph 1 must comply with the following:</p> <p>(a) The alarm signal must be audible and in addition may include optical alarm devices, or be a radio alarm, or any combination of the above.</p> <p>(b) The technical requirements of Directive 74/61/EEC as last amended by Directive 95/56/EC, Annex VI, Part II, paragraphs 8.2 to 8.8, 9.1.2 to 9.2.1, 9.2.3 to 9.4, 9.6, 9.9 to</p>	<p>Immobilisers must be approved as part of the base vehicle or as a separate technical unit.</p> <p>Alarms must be approved as part of the base vehicle or as a separate technical unit.</p> <p>An “Installation Check” means:</p> <p>An inspection of installed components as the approval authority deem necessary and in the case of an immobiliser or alarm system a completed installation certificate.</p>	<p>1. Directive 74/61/EEC, Annex IV, paragraphs 3.9, 4.1.3, 4.1.4, 4.2.4, 4.2.6, and 4.3.5. do not apply.</p> <p>2. The requirements according to the category of the base or incomplete vehicle based on maximum mass may apply.</p> <p>3. In the case of devices to prevent unauthorised use the manufacturer may as an alternative to an approval or test report issue a declaration of the device(s) fitted and that they comply with column 1, and in such case an Installation Check will be conducted.</p> <p>4. In the case of an immobiliser or alarm system an Installation Check will be conducted.</p>

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(c) 9.10, and 9.11.2 to 11. Inclusive; unsettling the panic alarm shall immediately cut the alarm signal.		
14. Protective Steering		
The essential technical provisions of Directive 74/297/EEC as last amended by Directive 91/662/EEC .		<ol style="list-style-type: none"> 1. The requirements according to the category of the base or incomplete vehicle based on maximum mass may apply. 2. This item does not apply to: <ol style="list-style-type: none"> (a) an armoured vehicle; or (b) a vehicle which complies with the technical requirements of Directive 96/79/EC. 3. The requirements of this item do not apply to a disabled person's vehicle insofar as the adaptation prevents the vehicle from complying with any of the requirements of this item except that this does not apply where such adaptations can easily be removed, if necessary with the use of tools, and in which case evidence of compliance before the vehicle was adapted is required.
15. Seat Strength		
1. The essential technical provisions of Directive 74/408/EEC as amended by Directive 2005/39/EC .		<ol style="list-style-type: none"> 1. In the case of a motor caravan, ambulance, or hearse, the requirements according to the category of the base or incomplete vehicle based on maximum mass may apply. 2. In the case of a motor caravan, ambulance, or hearse the requirements in column 1 do not apply to seats intended for use solely while the vehicle is stationary and any such seats must be clearly identified to users by means of a pictogram or a sign with appropriate text. 4. In the case of a wheelchair accessible vehicle:

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		<p>(a) a wheelchair location is to be considered a seating position but the requirements in column 1, paragraph 1, do not apply to the wheelchair; and</p> <p>(b) for each wheelchair, sufficient space must be provided. The longitudinal plane of the special area must be parallel to the longitudinal plane of the vehicle.</p> <p>5. The provisions of paragraph 2 of Article 1 to Directive 2005/39/EC shall not apply.</p> <p>6. The tests specified in Appendix 1 and Appendix 2 of Annex II to directive 74/408/EEC do not apply to a seat if designed to provide a comparable level of safety.</p>
16. Exterior Projections		
<p>The essential technical provisions of Directive 74/483/EEC as amended by 79/488/EEC.</p>		<p>1. The requirements according to the category of the base or incomplete vehicle based on maximum mass may apply to the cab.</p> <p>2. Those parts of a motor caravan, ambulance, or hearse, other than the driver's cabin are exempt from any requirement of this item if it can be demonstrated to the satisfaction of the approval authority that it is impossible for the vehicle to comply due to its special purpose.</p> <p>3. In the case of armoured vehicles exemption from any requirement of this item is permitted if it can be demonstrated to the satisfaction of the approval authority that it is impossible for the vehicle to comply due to its special purpose.</p> <p>4. Hood or tonneau cover press studs fitted to a convertible</p>

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		vehicle so long as they are blunted.
17. Speedometer and Reverse Gear		
The technical provisions of Directive 75/443/EEC as amended by Directive 97/39/EC .		
18. Plates (statutory)		
<ol style="list-style-type: none"> 1. The technical provisions of Directive 76/114/EEC as last amended by Directive 78/507/EEC. 2. Where the vehicle is the subject of a multi stage build a plate is required on completion of each stage as appropriate. 		
19. Seat Belt Anchorages		
<p>The technical provisions of Directive 76/115/EEC as last amended by Directive 2005/41/EC;</p> <p>And</p> <p>In the case of a wheelchair accessible vehicle the requirements in Section 2 of this Part.</p>		<ol style="list-style-type: none"> 1. In the case of a motor caravan, ambulance, or hearse, with a maximum mass equal to or exceeding 2500kg the requirements according to the category of the base or incomplete vehicle based on maximum mass may apply. 2. In the case of a motor caravan, ambulance, or hearse, the requirements in column 1 do not apply to seats intended for use solely while the vehicle is stationary and any such seats must be clearly identified to users by means of a pictogram or a sign with appropriate text. 3. In the case of a motor caravan, ambulance, or hearse, at least anchorages for lap belts are required for all rear seating positions. 4. In the case of armoured vehicles exemption from any requirement of this item is permitted if it can be demonstrated to the satisfaction of the approval authority that

<i>1. Requirement</i>	<i>2 Definitions and supplementary provisions</i>	<i>3 Exemptions and modifications</i>
		<p>it is impossible for the vehicle to comply due to its special purpose.</p> <p>5. Where a seat belt anchorage has been approved in accordance with the requirements in column 1 and the structure of the vehicle is subsequently modified, no new tests are required provided the structure on which the anchorage is mounted is unlikely to be affected.</p>
20. Installation of Lighting and Light Signalling Devices		
<p>The technical provisions of UNECE Regulation 48.03;</p> <p>And</p> <p>Dipped beam headlamps must be suitable for left hand rule of the road traffic.</p>		<p>1. Exemption from one or more of the technical requirements is permitted for a special purpose vehicle where the special purpose makes it impossible to fully comply provided that all mandatory devices are installed and geometric visibility is unaffected.</p> <p>2. For vehicles with a maximum mass equal to or exceeding 2500kg the requirements according to the category of the base or incomplete vehicle based on maximum mass may apply to the cab.</p> <p>3. In the case of armoured vehicles exemption from any requirement of this item is permitted if it can be demonstrated to the satisfaction of the approval authority that it is impossible for the vehicle to comply due to its special purpose and provided that all mandatory lighting devices are installed and that the geometric visibility is not affected.</p>
21. Retro Reflectors		
<p>The technical provisions of Directive 76/757/EEC as last amended by Directive 97/29/EC.</p>		
22. End-outline, Front-Position (side), Rear-Position (side), Stop, Side Marker, Daytime Running Lamps		

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<i>1. Requirement</i>	<i>2 Definitions and supplementary provisions</i>	<i>3 Exemptions and modifications</i>
The technical provisions of Directive 76/758/EEC as last amended by Directive 97/30/EC .		
23. Direction Indicators		
The technical provisions of Directive 76/759/EEC as last amended by Directive 99/15/EC .		
24. Rear registration Plate Lamps		
The technical provisions of Directive 76/760/EEC as last amended by Directive 97/31/EC .		
25. Headlamps (including bulbs)		
The technical provisions of Directive 76/761/EEC as last amended by Directive 99/17/EC .		
25A. Cornering Lamps (where fitted)		
The technical provisions of UNECE Regulation 119.		
26. Front Fog Lamps (where fitted)		
The technical provisions of Directive 76/762/EEC as last amended by Directive 99/18/EC .		
28. Rear Fog Lamps		
The technical provisions of Directive 77/538/EEC as last amended by Directive 99/14/EC .		
29. Reversing Lamps		
The technical provisions of Directive 77/539/EEC as last amended by Directive 97/32/EC .		
30. Parking Lamps (where fitted)		
The technical provisions of Directive 77/540/EEC as last amended by Directive 99/16/EC .		
31. Seat Belts		

1. Requirement	2 Definitions and supplementary provisions	3 Exemptions and modifications
<p>The technical provisions of Directive 77/541/EEC EEC as last amended by Directive 2005/40/EC.</p>		<ol style="list-style-type: none"> 1. In the case of a motor caravan, ambulance, or hearse, with a maximum mass equal to or exceeding 2500kg the requirements according to the category of the base or incomplete vehicle based on maximum mass may apply. 2. In the case of a motor caravan, ambulance, hearse, or other special purpose vehicle the requirements in column 1 do not apply to seats intended for use solely while the vehicle is stationary and any such seats must be clearly identified to users by means of a pictogram or a sign with appropriate text. 2. In the case of a motor caravan, ambulance, or hearse, at least lap belts are required for all rear seating positions. 3. In the case of armoured vehicles exemption from any requirement of this item is permitted if it can be demonstrated to the satisfaction of the approval authority that it is impossible for the vehicle to comply due to its special purpose. 4. Seat belts which have been specially designed or adapted for use by an adult or young person suffering from some physical or mental impairment and intended for use solely by such person are exempt. (Note: Seat belt anchorages for such belts must satisfy the requirements of item 19.) 5. In the case of a wheelchair accessible vehicle when, due to the conversion, anchorage points for the safety belts need to be moved outside the tolerance provided for in point 2.7.8.1 of Annex I to Directive 77/541/EEC, the technical service must

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<i>1. Requirement</i>	<i>2 Definitions and supplementary provisions</i>	<i>3 Exemptions and modifications</i>
		<p>check whether the alteration constitutes a worst case or not. If that is the case, the test provided for in Annex VII to Directive 77/541/EEC will be performed. Extension to the Approval does not need to be issued. This does not apply to a seat that is a wheelchair.</p> <p>6. A seat belt bearing an approval mark in accordance with column 1 may be fitted, whether or not the seat belt has been type approved for the anchorages to which it is fitted, provided that the seat belt complies with the installation requirements of column 1.</p>
32. Forward Vision		
<p>Directive 77/649/EEC as amended by 90/630/EEC;</p> <p>Or</p> <p>The driver shall have a clear and un-obscured view of the road ahead and to the side (180° forward).</p>		
33. Identification of Controls, Tell-tales and Indicators		
<p>The technical provisions of Directive 78/316/EEC as amended by Directive 94/53/EC.</p>		
34. Defrost/Demist		
<p>Directive 78/317/EEC;</p> <p>Or</p> <p>Vehicles shall be fitted with an adequate defrosting and demisting devices.</p>	<p>“Adequate” means sufficiently effective to ensure adequate visibility through the windscreen under all conditions.</p>	<p>In the case of armoured vehicles exemption from any requirement of this item is permitted if it can be demonstrated to the satisfaction of the approval authority that it is impossible for the vehicle to comply due to its special purpose.</p>
35. Wash/Wipe		
<p>Directive 78/318/EEC as amended by 94/68/EC;</p> <p>Or</p>	<p>“Adequate” means sufficiently effective to ensure adequate visibility through the windscreen under all conditions.</p>	<p>In the case of armoured vehicles exemption from any requirement of this item is permitted if it can be demonstrated to the satisfaction of the approval authority that it is impossible</p>

<i>1. Requirement</i>	<i>2 Definitions and supplementary provisions</i>	<i>3 Exemptions and modifications</i>
Vehicles must be fitted with adequate washing and wiping devices.		for the vehicle to comply due to its special purpose.
36. Heating Systems (where fitted)		
The essential technical provisions of: Directive 2001/56/EC as amended by 2006/119/EC , paragraph 3 of Annex II, and Annexes III, VII and VIII.		
37. Wheel guards		
The technical provisions of Directive 78/549/EEC as amended by 94/78/EC .		<ol style="list-style-type: none"> 1. Paragraph 3 of Annex I to Directive 78/549/EEC does not apply. 2. For vehicles with a maximum mass equal to or exceeding 2500kg the requirements according to the category of the base or incomplete vehicle based on maximum mass may apply.
38. Head restraints		
The technical provisions of Directive 78/932/EEC .		<ol style="list-style-type: none"> 1. In the case of a motor caravan, ambulance, or hearse with a maximum mass equal to or exceeding 2500kg the requirements according to the category of the base or incomplete vehicle based on maximum mass may apply. 2. In the case of a motor caravan, ambulance, or hearse: <ol style="list-style-type: none"> (a) the requirements in column 1 do not apply to seats intended for use solely while the vehicle is stationary; and (b) any seats which are not for use when travelling on a road must be clearly identified to users by means of a pictogram or a sign with appropriate text. 3. Does not apply to head restraints which comply with the requirements of item 15. 4. Does not apply to a seat which is a wheelchair.

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39. CO₂ emissions/Fuel consumption		
The technical provisions of Directive 80/1268/EEC as amended by Directive 2004/3/EC .		<ol style="list-style-type: none"> Does not apply to vehicles fitted with an engine approved to item 41. Annex V of Directive 89/491/EEC amending Directive 80/1268/EEC does not apply with effect from 2nd January 2013.
40. Engine power		
The essential technical provisions of Directive 80/1269/EEC as amended by Directive 99/99/EC .		
41. Diesel Emissions		
<ol style="list-style-type: none"> Directive 2005/55/EC as amended by 2006/51/EC, Annex I, and Row B1 limit values. Complete or incomplete vehicles manufactured on or after 1st October 2010: Directive 2005/55/EC as amended by 2006/51/EC, Annex I, and Row B2 limit values. 		<ol style="list-style-type: none"> Does not apply to vehicles approved under item 2. Modification of exhaust system length after the last silencer is permissible without any further test. For vehicles with a maximum mass equal to or exceeding 2500kg the requirements according to the category of the base or incomplete vehicle based on maximum mass may apply. In the case of armoured vehicles exemption from any requirement of this item is permitted if it can be demonstrated to the satisfaction of the approval authority that it is impossible for the vehicle to comply due to its special purpose.
44. Masses and Dimensions (cars)		
The essential technical provisions of Directive 92/21/EEC as amended by 95/48/EC .		<ol style="list-style-type: none"> In the case of motor caravans, for paragraph 3.1.1.2 of Annex II to Directive 92/21, for “2500mm” substitute “2600mm”. Paragraphs 3.1.1.3 and 3.3.3 of Annex II to Directive 92/21/EEC do not apply.

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		3. In the case of wheelchair accessible vehicles, for the purpose of calculations, the mass of the wheelchair including the user is assumed to be 100 kg. The mass shall be concentrated at the H point of the three dimensional machine.
45. Safety glass		
The technical provisions of Directive 92/22/EEC as amended by Directive 2001/92/EC .		1. Does not apply to armoured vehicles. 2. Exclusions defined in paragraph 1 of Annex II to Directive 92/22/EEC as amended. 3. In the case of a wheelchair accessible vehicle, motor caravan, ambulance, or hearse, all window glazing, other than driver's cab glazing, the material may be safety glass or rigid plastic glazing. 4. For vehicles with a maximum mass equal to or exceeding 2500kg the requirements according to the category of the base or incomplete vehicle based on maximum mass may apply. 5. Directive 92/22/EEC , Annex III, paragraph 2.1.1 and 2.1.2 do not apply provided that driver's forward vision is not distorted and that light transmission of at least 70% is maintained.
46. Tyres		
Directive 92/23/EEC as last amended by Directive 2005/11/EC ; And UNECE Regulation 64.01 for temporary spare use spare tyre (if fitted).		1. For vehicles with a maximum mass equal to or exceeding 2500kg the requirements according to the category of the base or incomplete vehicle based on maximum mass may apply. 2. In the case of armoured vehicles exemption from any requirement of this item is permitted if it can be demonstrated to the satisfaction of the approval authority that

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<i>1. Requirement</i>	<i>2 Definitions and supplementary provisions</i>	<i>3 Exemptions and modifications</i>
		it is impossible for the vehicle to comply due to its special purpose.
50. Couplings (where fitted)		
The technical provisions of Annex VII to Directive 94/20/EC .		In the case of a wheelchair accessible vehicle, irrespective of mass, or a motor caravan, ambulance or hearse with a maximum mass equal to or exceeding 2500kg the requirements according to the category of the base or incomplete vehicle based on maximum mass may apply.
60. Frontal Protection Systems (“Bull-bars”) (where fitted)		
The technical provisions of paragraphs 2 and 3 of Annex I to Directive 2005/66/EC and Council Decision 2006/368/EC .		

SECTION 2

Part A

1. Wheelchair spaces

1. A wheelchair space must be fitted with—
 - (a) a wheelchair and wheelchair user restraint system complying with item 19 of Directive [2007/46/EC](#), Annex XI, Appendix 3; or
 - (b) a restraint system comprising—
 - (i) a four point wheelchair tie-down system suitable for general wheelchair application; and
 - (ii) a wheelchair user restraint system comprising a minimum of three anchorage points to provide a pelvic and upper torso restraint system.

2. Wheelchair tie-down devices

2. A wheelchair tie-down device must comply with ISO 10542 and be marked accordingly.

3. Location and geometry of anchorages

3. The geometry of the wheelchair tie-down and occupant restraint system anchorages and webbing must comply with ISO 10542. A surrogate wheelchair as defined in ISO 10542 or equivalent must be used for this purpose.

4. Testing of restraint system anchorages

4. A static test must be conducted on the anchorage points for both the wheelchair tie-downs and occupant restraints in accordance with the following requirements—

- (c) The tests must be conducted on a vehicle or a representative section of a vehicle structure including any vehicle fittings that are likely to contribute to the strength or rigidity of the structure;
- (d) The forces specified in 5 below must be applied by means of a surrogate wheelchair of adequate strength as defined in ISO 10542, or equivalent, with attachment points for the front and rear tie-downs and reproducing the geometry of the wheelchair tie-down system;
- (e) The forces specified in 6 below must be applied by means of a traction device specified in paragraph 5.3.4 of Annex I to Directive [76/115/EEC](#) as last amended by Directive [96/38/EC](#) and supported on the surrogate wheelchair defined in (b) above;
- (f) The forces in (b) and (c) above must be applied simultaneously in the forward direction at an angle of $10^\circ \pm 5^\circ$ above the horizontal plane. The force in (b) shall be applied at a height of not less than 200 mm and not more than 300 mm measured vertically above the floor of the wheelchair space;
- (g) The force in 5(b) must be applied in the rearward direction at an angle of $10^\circ \pm 5^\circ$ above the horizontal plane at a height of not less than 200 mm and not more than 300 mm measured vertically above the floor of the wheelchair space;
- (h) All forces must be applied as rapidly as possible through the central vertical axis of the wheelchair and wheelchair space; and
- (i) All forces must be maintained for a period of not less than 0.2 seconds.

For test purposes the components comprising the wheelchair tie-down and occupant restraint devices may be replaced with components suitable for test purposes having a similar function.

5. Forces applied to a wheelchair tie-down system

- 5. The force applied to the surrogate wheelchair:
 - (j) in the forward direction to be 24.50 kN;
 - (k) in the rearward direction to be 12.25 kN.

6. Forces applied to an occupant restraint system

6. The forces to be those specified in paragraph 5.4 of Annex I to Directive [76/115/EEC](#) as amended by Directive [96/38/EC](#).

7. Anchorage system performance

- 7. The anchorages will meet the test performance requirements if—
 - (l) no part of the system has failed, or become detached during the test;
 - (m) no part of the anchorage system has deformed to such an extent that sharp edges or protrusion may cause injury.

Part B

Instead of complying with Part A an alternative wheelchair tie-down system, docking system or occupant restraint system may be fitted. This may include a rearward facing wheelchair arrangement with appropriate safety features. Evidence must be provided to the approval authority that the system offers an equivalent level of occupant protection for the wheelchair user.