

Council Directive of 26 July 1971 on the approximation of the laws of the Member States relating to the braking devices of certain categories of motor vehicles and of their trailers (71/320/EEC) (repealed)

Article 1	.....
Article 2	.....
Article 2a	.....
Article 3	.....
Article 4	.....
Article 5	.....
Article 6	.....
Article 7	.....

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ANNEX I

Definitions, construction and fitting requirements, application for EC type-approval, granting of EC type-approval, modifications of type and amendments to approvals, conformity of production

1. DEFINITIONS

1.1.	.....
1.1.1.	.....
1.1.1.1.	.....
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  - 1.17.2. ....
  - 1.17.3. ....
- 1.18. ....
- 1.19. ....
- 1.20. ....
- 2. CONSTRUCTION AND FITTING REQUIREMENTS
  - 2.1. ....
    - 2.1.1. ....
      - 2.1.1.1. ....
      - 2.1.1.2. ....
      - 2.1.1.3. ....
    - 2.1.2. ....
      - 2.1.2.1. ....
      - 2.1.2.2. ....
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    - 2.1.3. ....
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- 2.3. Brake linings and brake lining assemblies
  - 2.3.1. ....
  - 2.3.2. ....
    - 2.3.2.1. Marking
    - 2.3.2.2. Packaging
  - 2.3.3. ....
  - 2.3.4. ....
- 3. APPLICATION FOR EC TYPE-APPROVAL
  - 3.1. ....
  - 3.2. ....
  - 3.3. ....
- 4. GRANTING OF EC TYPE-APPROVAL
  - 4.1. ....
  - 4.2. ....
  - 4.3. ....
- 5. MODIFICATIONS OF THE TYPE-AND AMENDMENTS TO APPROVALS
  - 5.1. ....
- 6. CONFORMITY OF PRODUCTION
  - 6.1. ....

ANNEX II

Braking Tests and performance of braking systems

- 1. BRAKING TESTS
  - 1.1. ....
    - 1.1.1. ....
    - 1.1.2. ....
    - 1.1.3. ....
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	1.6.2.	.....
2.	PERFORMANCE OF BRAKING SYSTEMS	
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	2.1.1.	.....
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2.2.1.4.3.	.....
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2.3.	.....
2.3.1.	.....
2.3.2.	.....
2.3.3.	.....

## Appendix

(See point 1.1.4.2)

1. GENERAL REQUIREMENTS
2. SYMBOLS
3. REQUIREMENTS FOR MOTOR VEHICLES
  - 3.1. ....
    - 3.1.1. ....
    - 3.1.2. ....

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	3.1.2.2. ....
	3.1.3. ....
	3.1.4. ....
	3.1.4.1. ....
	3.1.5. ....
	3.1.5.1. ....
	3.1.5.2. ....
	3.1.5.3. ....
3.2.	.....
4.	REQUIREMENTS FOR SEMI-TRAILERS
4.1.	.....
4.2.	.....
5.	REQUIREMENTS FOR FULL AND CENTRE-AXLE TRAILERS
5.1.	.....
	5.1.1. ....
	5.1.2. ....
	5.1.3. ....
5.2.	.....
	5.2.1. ....
	5.2.2. ....
6.	CONDITIONS TO BE FULFILLED IN THE CASE OF FAILURE OF...
7.	MARKINGS
7.1.	.....
	7.1.1. ....
7.2.	.....
	7.2.1. ....
	7.2.2. ....
	7.2.3. ....
	7.2.4. ....
7.3.	.....
7.4.	.....
8.	PRESSURE TEST CONNECTIONS
8.1.	.....
8.2.	.....
9.	VEHICLE INSPECTION
	Diagram 1A Vehicles of category M1 and certain vehicles of category N1...(see point 3.1.1) .....
	Diagram 1B Motor vehicles (other than those of categories M1 and N1...(see point 3.1.1) .....
	Diagram 1C Vehicles of category N1 (with certain exceptions from 1 October...(see point 3.1.1) .....

Diagram 2 Towing vehicles and trailers (see points 3.1.4 and 5) ....(see points 3.1.4 and 5) . . . . .

Diagram 3 Tractive units for semi-trailers (see point 3.1.5) . . ....(see point 3.1.5) . . . . .

Diagram 4A Semi-trailers (see point 4) . . . . .(see point 4) . . . . .

Diagram 4B (see point 4)

Diagram 5 Load sensing device (see point 7.4) . . . . .(see point 7.4) . . . . .

### ANNEX III

#### Method of measuring the reaction time for vehicles with compressed-air braking systems

1. GENERAL REQUIREMENTS
  - 1.1. . . . . .
  - 1.2. . . . . .
  - 1.3. . . . . .
2. MOTOR VEHICLES
  - 2.1. . . . . .
  - 2.2. . . . . .
  - 2.3. . . . . .
  - 2.4. . . . . .
  - 2.5. . . . . .
  - 2.6. . . . . .
  - 2.7. . . . . .
3. TRAILERS (including semi-trailers)
  - 3.1. . . . . .
  - 3.2. . . . . .
  - 3.3. . . . . .
    - 3.3.1. . . . . .
    - 3.3.2. . . . . .
    - 3.3.3. . . . . .
    - 3.3.4. . . . . .
  - 3.4. . . . . .
4. PRESSURE TEST CONNECTIONS
  - 4.1. . . . . .
  - 4.2. . . . . .

### Appendix

#### EXAMPLE OF A SIMULATOR

1. Setting the simulator
2. Testing the trailer braking system via the simulator



## ANNEX IV

### Energy reservoirs and sources of energy

- A. Compressed-air braking systems
  - 1. CAPACITY OF RESERVOIRS
    - 1.1. ....
      - 1.1.1. ....
      - 1.1.2. ....
      - 1.1.3. ....
    - 1.2. ....
      - 1.2.1. ....
      - 1.2.2. ....
        - 1.2.2.1. ....
        - 1.2.2.2. ....
        - 1.2.2.3. ....
    - 1.3. ....
      - 1.3.1. ....
      - 1.3.2. ....
        - 1.3.2.1. ....
        - 1.3.2.2. ....
        - 1.3.2.3. ....
        - 1.3.2.4. ....
  - 2. CAPACITY OF ENERGY SOURCES
    - 2.1. ....
    - 2.2. ....
      - 2.2.1. ....
      - 2.2.2. ....
      - 2.2.3. ....
    - 2.3. ....
      - 2.3.1. ....
      - 2.3.2. ....
      - 2.3.3. ....
    - 2.4. ....
      - 2.4.1. ....
      - 2.4.2. ....
    - 2.5. ....
      - 2.5.1. ....
      - 2.5.2. ....
    - 2.6. ....
      - 2.6.1. ....
  - 3. PRESSURE TEST CONNECTIONS
    - 3.1. ....
    - 3.2. ....
- B. Vacuum braking systems
  - 1. CAPACITY OF RESERVOIRS
    - 1.1. ....
      - 1.1.1. ....
      - 1.1.2. ....
      - 1.1.3. ....
    - 1.2. ....
      - 1.2.1. ....

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		1.2.1.1. ....
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	1.2.2. ....	
		1.2.2.1. ....
		1.2.2.2. ....
		1.2.2.3. ....
	1.3. ....	
		1.3.1. ....
		1.3.2. ....
		1.3.2.1. ....
		1.3.2.2. ....
2.	<b>CAPACITY OF ENERGY SOURCES</b>	
	2.1. ....	
		2.1.1. ....
	2.2. ....	
		2.2.1. ....
		2.2.1.1. ....
		2.2.1.2. ....
		2.2.1.3. ....
		2.2.2. ....
C.	<b>Hydraulic braking systems with stored energy</b>	
	1. <b>CAPACITY OF STORAGE DEVICES (ENERGY ACCUMULATORS)</b>	
		1.1. ....
		1.1.1. ....
		1.1.2. ....
		1.1.3. ....
		1.2. ....
		1.2.1. ....
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		1.2.2.2.1. ....
		1.2.2.2.2. ....
2.	<b>CAPACITY OF HYDRAULIC FLUID ENERGY SOURCES</b>	
	2.1. ....	
		2.1.1. ....
		2.1.1.1. ....
		2.1.1.2. ....
		2.1.1.3. ....
		2.1.2. ....
		2.1.2.1. ....
		2.1.2.2. ....
		2.1.3. ....
		2.1.3.1. ....
		2.1.3.2. ....
3.	<b>CHARACTERISTICS OF ALARM DEVICES</b>	

## ANNEX V

### Spring brakes

1. DEFINITIONS
  - 1.1. ....
    - 1.1.1. ....
  - 1.2. ....
  - 1.3. ....
2. GENERAL REQUIREMENTS
  - 2.1. ....
  - 2.2. ....
  - 2.3. ....
  - 2.4. ....
  - 2.5. ....
  - 2.6. ....
  - 2.7. ....
3. RELEASE SYSTEM
  - 3.1. ....
    - 3.1.1. ....
  - 3.2. ....

## ANNEX VI

### Parking braking by mechanical locking of the brake cylinders (lock actuators)

1. DEFINITION
2. SPECIAL PROVISIONS
  - 2.1. ....
  - 2.2. ....
  - 2.3. ....
  - 2.4. ....
  - 2.5. ....

## ANNEX VII

### Cases in which Type I and/or II (or IIA) or III tests do not have to be carried out on a vehicle submitted for type-approval

1. ....
  - 1.1. ....
    - 1.1.1. ....
    - 1.1.2. ....
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  - 1.3. ....
    - 1.3.1. ....
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  - 1.4. ....

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- 2. ....
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  - 3.3. ....
  - 3.4. ....
- 4. ....

### Appendix 1

#### Alternative procedures for Type I and Type III tests for trailer brakes

- 1. GENERAL
  - 1.1. ....
  - 1.2. ....
- 2. SYMBOLS AND DEFINITIONS (the reference brake symbols shall have the...
- 3. TEST METHODS
  - 3.1. ....
    - 3.1.1. ....
    - 3.1.2. ....
      - 3.1.2.1. ....
      - 3.1.2.2. ....
    - 3.1.3. ....
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- 3.5.2.3 .....
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- 3.5.3.1.1. ....
- 3.5.3.1.2. ....
- 3.5.3.1.3. ....
- 3.5.3.2. ....
- 3.6. ....
- 3.6.1. ....
- 3.6.2. ....
- 4. VERIFICATION
- 4.1. ....
- 4.2. ....
- 4.2.1. ....
- 4.3. ....
- 4.3.1. ....
- 4.3.1.1. ....
- 4.3.1.2. ....
- 4.3.1.3. ....
- 4.3.1.4. ....
- 4.3.2. ....
- 4.3.3. ....

## Appendix 2

Model reference axle test report form as prescribed in Appendix 1, point 3.6

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## ANNEX VIII

Conditions governing the testing of vehicles with inertia (overrun) braking systems

- 1. GENERAL PROVISIONS
- 1.1. ....
- 1.2. ....
- 1.3. ....
- 1.4. ....
- 1.5. ....
- 1.6. ....
- 1.6.1. ....
- 1.6.2. ....
- 1.6.3. ....
- 2. SYMBOLS AND DEFINITIONS
- 2.1. ....
- 2.1.1. ....
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- 2.1.3. ....

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- 3. GENERAL REQUIREMENTS
- 3.1. ....
- 3.2. ....
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4.	REQUIREMENTS FOR CONTROL DEVICES
4.1.	.....
4.2.	.....
4.3.	.....
4.4.	.....
4.5.	.....
5.	TESTS AND MEASUREMENTS TO BE CARRIED OUT ON THE CONTROL...
5.1.	.....
5.2.	.....
5.2.1.	.....
5.2.2.	.....
5.2.3.	.....
5.2.4.	.....
5.2.5.	.....
5.3.	.....
5.3.1.	.....
5.3.2.	.....
5.4.	.....
5.4.1.	.....
5.4.2.	.....
5.4.3.	.....
5.5.	.....
6.	REQUIREMENTS FOR BRAKES
6.1.	.....
6.2.	.....
6.2.1.	.....
6.2.2.	.....
7.	TESTS AND MEASUREMENTS TO BE CARRIED OUT ON THE BRAKES...
7.1.	.....
7.2.	.....
7.2.1.	.....
7.2.2.	.....
7.2.3.	.....
7.2.3.1.	.....
7.2.3.2.	.....
8.	TEST REPORTS
9.	COMPATIBILITY OF THE CONTROL DEVICE AND THE BRAKES OF A...
9.1.	.....
9.2.	.....
9.2.1.	.....
9.2.2.	.....
9.2.2.1.	.....
9.2.2.2.	.....
9.2.3.	.....

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	9.2.3.1. ....
	9.2.3.2. ....
	9.2.3.3. ....
9.3.	.....
	9.3.1. ....
	9.3.1.1. ....
	9.3.1.2. ....
9.4.	.....
	9.4.1. ....
	9.4.2. ....
	9.4.2.1. ....
	9.4.2.2. ....
	9.4.2.3. ....
	9.4.3. ....
	9.4.3.1. ....
	9.4.3.2. ....
9.5.	.....
	9.5.1. ....
	9.5.2. ....
	9.5.3. ....
10.	GENERAL COMMENTS

## Appendix 1

### Explanatory diagrams

Diagram 1 Symbols valid for all types of braking systems (see point...(see point 2.2)  
Diagram 2 Mechanical transmission (see points 2.2.10...

Diagram 2 Mechanical transmission (see points 2.2.10 and 5.3.2) Diagram 3 Hydraulic...(see points 2.2.10 and 5.3.2) Diagram 3 Hydraulic transmission (see...

Diagram 3 Hydraulic transmission (see points 2.2.10 and 5.4.2) Diagram 4 Brake...(see points 2.2.10 and 5.4.2) Diagram 4 Brake checks (see...

Diagram 4 Brake checks (see points 2.2.22 and 2.3.4) . . . . .(see points 2.2.22 and 2.3.4) . . . . .

Diagram 5 Brakes with mechanical transmission (see point 2.3) Diagram 6 Mechanical...(see point 2.3) Diagram 6 Mechanical brake (see points 2.3.6...

Diagram 6 Mechanical brake (see points 2.3.6 and 7.2.3.1) Diagram 7 Hydraulic...(see points 2.3.6 and 7.2.3.1) Diagram 7 Hydraulic brake (see...

Diagram 7 Hydraulic brake (see points 2.4.6 and 7.2.3.2) Diagram 8 Hydraulic...(see points 2.4.6 and 7.2.3.2) Diagram 8 Hydraulic transmission braking...

Diagram 8 Hydraulic transmission braking system (see point 2.4) Appendix 2 Test...(see point 2.4) Appendix 2 Test report on the control...



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## Appendix 2

Test report on the control device

## Appendix 3

Test report on the brake

## Appendix 4

Test report on the compatibility of the control device, the transmission and the brakes

## ANNEX IX

Type-approval documentation

### Appendix 1

MODEL(maximum format: A4 (210 × 297 mm))

Annex to EC type-approval certificate No ... concerning the type-approval of...

### Appendix 2

### Appendix 3

1. ....
  - 1.1. ....
  - 1.2. ....
  - 1.3. ....
  - 1.4. ....
  - 1.5. ....
2. ....
  - 2.1. ....
  - 2.2. ....
3. ....
  - 3.1. ....
4. ....
  - 4.1. ....
5. ....
6. ....
7. ....
8. ....
9. ....
  - 9.1. ....
  - 9.2. ....
10. ....
11. ....
  - 11.1. ....
  - 11.2. ....
  - 11.3. ....
12. ....
13. ....

ANNEX X

Test requirements for vehicles with anti-lock braking systems

- 1. GENERAL
  - 1.1. ....
  - 1.2. ....
  
- 2. DEFINITIONS
  - 2.1. ....
  - 2.2. ....
  - 2.3. ....
  - 2.4. ....
  - 2.5. ....
  - 2.6. ....
  
- 3. TYPES OF ANTI-LOCK BRAKING SYSTEMS
  - 3.1. ....
    - 3.1.1. ....
    - 3.1.2. ....
    - 3.1.3. ....
  - 3.2. ....
    - 3.2.1. ....
    - 3.2.2. ....
  
- 4. GENERAL REQUIREMENTS
  - 4.1. ....
    - 4.1.1. ....
    - 4.1.2. ....
  - 4.2. ....
    - 4.2.1. ....
  - 4.3. ....
  - 4.4. ....
  - 4.5. ....
  - 4.6. ....
  - 4.7. ....
    - 4.7.1. ....
    - 4.7.2. ....
    - 4.7.3. ....
    - 4.7.4. ....
    - 4.7.5. ....
  
- 5. SPECIAL PROVISIONS CONCERNING MOTOR VEHICLES
  - 5.1. ....
    - 5.1.1. ....
      - 5.1.1.1. ....
      - 5.1.1.2. ....
      - 5.1.1.3. ....
      - 5.1.1.4. ....
      - 5.1.1.5. ....
      - 5.1.1.6. ....
    - 5.1.2. ....
      - 5.1.2.1. ....

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	5.1.2.2.	.....
	5.1.2.3.	.....
	5.1.2.4.	.....
	5.1.2.5.	.....
	5.1.2.6.	.....
5.2.	.....	
	5.2.1.	.....
	5.2.2.	.....
	5.2.3.	.....
	5.2.4.	.....
	5.2.5.	.....
5.3.	.....	
	5.3.1.	.....
	5.3.2.	.....
	5.3.3.	.....
	5.3.4.	.....
	5.3.5.	.....
	5.3.6.	.....
	5.3.7.	.....
6.	<b>SPECIAL PROVISIONS CONCERNING TRAILERS</b>	
6.1.	.....	
	6.1.1.	.....
	6.1.2.	.....
	6.1.3.	.....
	6.1.4.	.....
6.2.	.....	
	6.2.1.	.....
	6.2.2.	.....
6.3.	.....	
	6.3.1.	.....
	6.3.2.	.....
	6.3.3.	.....

## Appendix 1

### Symbols and definitions

## Appendix 2

### Utilisation of adhesion

1.	<b>METHOD OF MEASUREMENT FOR MOTOR VEHICLES</b>	
1.1.	.....	
	1.1.1.	.....
	1.1.2.	.....
	1.1.3.	.....
		1.1.3.1. ....
		1.1.3.2. ....
	1.1.4.	.....
	1.1.5.	.....
	1.1.6.	.....

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- 1.1.7. ....
- 1.1.8. ....
- 1.1.9. ....
- 1.2. ....
  - 1.2.1. ....
  - 1.2.2. ....
  - 1.2.3. ....
  - 1.2.4. ....
  - 1.2.5. ....
  - 1.2.6. ....
- 1.3. ....
- 1.4. ....
- 1.5. ....
  - 1.5.1. ....
- 2. METHOD OF MEASUREMENT FOR TRAILERS
  - 2.1. ....
    - 2.1.1. ....
    - 2.1.2. ....
    - 2.1.3. ....
      - 2.1.3.1. ....
      - 2.1.3.2. ....
    - 2.1.4. ....
    - 2.1.5. ....
    - 2.1.6. ....
  - 2.2. ....
    - 2.2.1. ....
    - 2.2.2. ....
    - 2.2.3. ....
    - 2.2.4. ....
  - 2.3. ....
    - 2.3.1. ....
    - 2.3.2. ....

Appendix 3

Performance on differing adhesion surfaces

- 1. MOTOR VEHICLES
  - 1.1. ....
  - 1.2. ....
  - 1.3. ....
- 2. TRAILERS
  - 2.1. ....
  - 2.2. ....

Appendix 4

Method of selection of the low-adhesion surface

- 1. ....

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IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.*

---

- 1.1. ....
- 1.1.1. ....
- 1.1.2. ....
- 1.1.3. ....
- 1.1.4. ....
- 2. ....
- 2.1. ....

## ANNEX XI

### Test conditions for trailers with electrical braking systems

- 1. GENERAL
  - 1.1. ....
  - 1.2. ....
  - 1.3. ....
  - 1.4. ....
  - 1.5. ....
  - 1.6. ....
- 2. CONDITIONS CONCERNING THE TRAILER
  - 2.1. ....
  - 2.2. ....
  - 2.3. ....
  - 2.4. ....
  - 2.5. ....
  - 2.6. ....
  - 2.7. ....
- 3. PERFORMANCE
  - 3.1. ....
  - 3.2. ....
  - 3.3. ....
  - 3.4. ....
  - 3.5. ....
  - 3.6. ....

## Appendix

Compatibility of the braking rate of the trailer and the mean  
fully developed deceleration of the tractor/trailer combination

## ANNEX XII

### Inertia dynamometer test method for brake linings

- 1. GENERAL
  - 1.1. ....
  - 1.2. ....
  - 1.3. ....

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---

1.4.	.....
1.5.	.....
2.	TEST EQUIPMENT
2.1.	.....
2.1.1.	.....
2.1.2.	.....
2.1.3.	.....
2.1.4.	.....
2.1.4.1.	.....
2.1.4.2.	.....
2.1.4.3.	.....
2.1.4.4.	.....
2.1.4.5.	.....
2.1.4.6.	.....
3.	TEST CONDITIONS
3.1.	.....
3.2.	.....
3.3.	.....
3.4.	.....
4.	TEST PROCEDURE
4.1.	.....
4.2.	.....
4.3.	.....
4.3.1.	.....
4.3.2.	.....
4.3.3.	.....
4.3.4.	.....
4.4.	.....
4.4.1.	.....
4.4.1.1.	.....
4.4.2.	.....
4.4.2.1.	.....
4.4.3.	.....
4.4.3.1.	.....
4.4.3.2.	.....
4.5.	.....
4.5.1.	.....
4.5.2.	.....
4.5.3.	.....
4.5.3.1.	.....
4.5.3.2.	.....
4.6.	.....
4.6.1.	.....
4.6.1.1.	.....
4.6.3.	.....
4.6.3.1.	.....
4.6.3.2.	.....
5.	INSPECTION OF BRAKE LININGS
5.1.	.....

## ANNEX XIII

### Braking and deviation test for vehicles with temporary-use spare wheels/tyres

1. GENERAL CONDITIONS
  - 1.1. ....
  - 1.2. ....
  - 1.3. ....
  - 1.4. ....
  - 1.5. ....
2. BRAKING AND DEVIATION TEST
  - 2.1. ....
  - 2.2. ....
  - 2.3. ....
  - 2.4. ....
  - 2.5. ....

## ANNEX XIV

### Alternative procedure for testing trailer anti-lock braking system (ABS)

1. GENERAL
  - 1.1. ....
2. INFORMATION DOCUMENT
  - 2.1. ....
    - 2.1.1. ....
      - 2.1.1.1. ....
      - 2.1.1.2. ....
      - 2.1.1.3. ....
      - 2.1.1.4. ....
      - 2.1.1.5. ....
    - 2.1.2. ....
      - 2.1.2.1. ....
      - 2.1.2.2. ....
      - 2.1.2.3. ....
      - 2.1.2.4. ....
      - 2.1.2.5. ....
      - 2.1.2.6. ....
      - 2.1.2.7. ....
      - 2.1.2.8. ....
    - 2.1.3. ....
      - 2.1.3.1. ....
      - 2.1.3.2. ....
      - 2.1.3.3. ....
      - 2.1.3.4. ....
      - 2.1.3.5. ....
    - 2.1.4. ....
      - 2.1.4.1. ....
3. DEFINITION OF TEST VEHICLE(S)
  - 3.1. ....

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- 3.1.1. ....
- 3.1.2. ....
- 3.1.3. ....
- 3.1.4. ....
- 3.1.5. ....
- 3.1.6. ....
- 3.2. ....
- 3.3. ....
- 4. TEST SCHEDULE
  - 4.1. ....
    - 4.1.1. ....
    - 4.1.2. ....
      - 4.1.2.1. ....
      - 4.1.2.2. ....
      - 4.1.2.3. ....
        - 4.1.2.3.1. ....
        - 4.1.2.3.2. ....
    - 4.1.3. ....
    - 4.1.4. ....
      - 4.1.4.1. ....
      - 4.1.4.2. ....
    - 4.1.5. ....
      - 4.1.5.1. ....
      - 4.1.5.2. ....
    - 4.1.6. ....
- 5. APPROVAL REPORT
  - 5.1. ....
- 6. VERIFICATION
  - 6.1. ....
  - 6.2. ....
    - 6.2.1. ....
      - 6.2.1.1. ....
      - 6.2.1.2. ....
  - 6.3. ....
    - 6.3.1. ....

Appendix 1

Trailer anti-lock braking system approval report

Approval Report No: ...

- 1. Identification
  - 1.1. ....
  - 1.2. ....
- 2. System(s) and installation(s) approved
  - 2.1. ....
  - 2.2. ....
  - 2.3. ....
  - 2.4. ....



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	2.5.	.....
	2.6.	.....
3.	Test data and results	
	3.1.	.....
	3.2.	.....
	3.3.	.....
	3.3.1.	.....
	3.3.2.	.....
	3.3.3.	.....
	3.3.4.	.....
	3.3.5.	.....
	3.3.6.	.....
	3.3.6.1.	.....
	3.3.6.2.	.....
	3.3.7.	.....
	3.3.8.	.....
	3.3.9.	.....
4.	Limitations of installation	
	4.1.	.....
	4.2.	.....
	4.3.	.....
	4.4.	.....
	4.5.	.....
	4.6.	.....
	4.7.	.....
	4.8.	.....
	4.9.	.....
	4.10.	.....
5.	Date of test	
	.....	
	.....	

## Appendix 2

### Symbols and definitions

## ANNEX XV

### EC type-approval of replacement brake lining assemblies as separate technical units

1.	SCOPE	
	1.1	.....
	1.2	.....
2.	DEFINITIONS	
	2.1.	.....
	2.2.	.....
	2.3.	.....
	2.3.1.	.....
	2.3.1.1.	.....
	2.3.2.	.....
	2.3.2.1.	.....

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	2.3.3.	.....
	2.3.4.	.....
2.4.		.....
2.5.		.....
2.6.		.....
2.7.		.....
2.8.		.....
2.9.		.....
3.	<b>APPLICATION FOR EC TYPE-APPROVAL</b>	
3.1.		.....
3.2.		.....
3.3.		.....
3.4.		.....
	3.4.1	.....
	3.4.2	.....
4.	<b>GRANTING OF EC TYPE-APPROVAL</b>	
4.1.		.....
4.2.		.....
4.3.		.....
4.4.		.....
	4.4.1.	.....
	4.4.2.	.....
	4.4.3.	.....
	4.4.4.	.....
5.	<b>SPECIFICATIONS AND TESTS</b>	
5.1.		.....
5.2.		.....
5.3.		.....
	5.3.1.	.....
	5.3.2.	.....
5.4.		.....
	5.4.1.	.....
	5.4.2.	.....
6.	<b>PACKAGING AND MARKING</b>	
6.1.		.....
6.2.		.....
6.3.		.....
	6.3.1.	.....
	6.3.2.	.....
	6.3.3.	.....
	6.3.4.	.....
	6.3.5.	.....
6.4.		.....
	6.4.1.	.....
	6.4.2.	.....
6.5.		.....
	6.5.1.	.....
	6.5.2.	.....
	6.5.3.	.....

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- 7. MODIFICATIONS OF THE TYPE AND AMENDMENTS TO APPROVALS
  - 7.1. ....
- 8. CONFORMITY OF PRODUCTION
  - 8.1. ....
  - 8.2. ....
  - 8.3. ....
  - 8.4. ....

### Appendix 1

#### Arrangements of the approval mark and approval data

.....  
.....

Example of pad assembly marking

Example of the shoe assembly marking

### Appendix 2

#### Requirements for replacement brake lining assemblies for vehicles of categories M1, M2 and N1

- 1. CONFORMANCE WITH THIS DIRECTIVE
  - 1.1. ....
  - 1.2. ....
    - 1.2.1. ....
      - 1.2.1.1. ....
      - 1.2.1.2. ....
      - 1.2.1.3. ....
    - 1.2.2. ....
      - 1.2.2.1. ....
    - 1.2.3. ....
      - 1.2.3.1. ....
  - 1.3. ....
- 2. ADDITIONAL REQUIREMENTS
  - 2.1. ....
    - 2.1.1. ....
      - 2.1.1.1. ....
      - 2.1.1.2. ....
      - 2.1.1.3. ....
    - 2.1.2. ....
      - 2.1.2.1. ....
      - 2.1.2.2. ....
      - 2.1.2.3. ....
  - 2.2. ....
    - 2.2.1. ....
    - 2.2.2. ....
      - 2.2.2.1. ....

	2.2.2.2. ....
	2.2.2.3. ....
	2.2.2.4. ....
2.2.3.	.....
	2.2.3.1. ....
	2.2.3.2. ....
	2.2.3.3. ....
2.2.4.	.....
	2.2.4.1. ....
	2.2.4.2. ....
	2.2.4.3. ....

### Appendix 3

#### Requirements for replacement brake lining assemblies for vehicles of categories O1 and O2

1.	GENERAL
2.	TEST EQUIPMENT
2.1.	.....
	2.1.1. ....
	2.1.2. ....
	2.1.3. ....
	2.1.4. ....
	2.1.5. ....
3.	TESTS AND REQUIREMENTS
3.1.	.....
3.2.	.....
	3.2.1. ....
	3.2.2. ....
3.3.	.....
	3.3.1. ....
	3.3.2. ....

### Appendix 4

#### Determination of friction behaviour by machine testing

1.	INTRODUCTION
	1.1. ....
	1.2. ....
	1.3. ....
2.	EQUIPMENT
	2.1. ....
	2.2. ....
	2.3. ....
	2.4. ....
	2.5. ....
3.	TEST PROCEDURE

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- 3.1. ....
- 3.2. ....
  - 3.2.1. ....
    - 3.2.1.1. ....
    - 3.2.1.2. ....
  - 3.2.2. ....
- 3.3. ....
  - 3.3.1. ....
    - 3.3.1.1. ....
    - 3.3.1.2. ....
    - 3.3.1.3. ....
  - 3.3.2. ....
    - 3.3.2.1. ....
    - 3.3.2.2. ....
- 3.4. ....
  - 3.4.1. ....
    - 3.4.1.1. ....
    - 3.4.1.2. ....
  - 3.4.2. ....
    - 3.4.2.1. ....
    - 3.4.2.2. ....

## ANNEX XVI

MODEI(maximum format: A4 (210 × 297 mm))

Addendum

## ANNEX XVII

.....

## ANNEX XVIII

INFORMATION DOCUMENT No ...

.....  
.....

- 0. GENERAL
  - 0.1. ....
  - 0.2. ....
  - 0.3. ....
    - 0.3.1. ....
  - 0.4. ....
  - 0.5. ....
  - 0.8. ....
- 1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE.

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---

- 1.1. ....
- 1.3. ....
  - 1.3.1. ....
  - 1.3.3. ....
- 1.8. ....
- 2. **MASSES AND DIMENSIONS (e) (in kg and mm) (Refer to...**
  - 2.1. ....
  - 2.3.1. ....
  - 2.6. ....
    - 2.6.1. ....
  - 2.7. ....
    - 2.7.1. ....
  - 2.8. ....
    - 2.8.1. ....
  - 2.9. ....
  - 2.10. ....
  - 2.11. ....
    - 2.11.1. ....
    - 2.11.2. ....
    - 2.11.3. ....
      - 2.11.3.1. ....
    - 2.11.4. ....
    - 2.11.6. ....
  - 2.12. ....
    - 2.12.1. ....
- 3. **POWER PLANT (q)**
  - 3.1. ....
    - 3.1.1. ....
  - 3.2. ....
    - 3.2.1.1. ....
    - 3.2.1.9. ....
    - 3.2.5. ....
      - 3.2.5.1. ....
      - 3.2.5.2. ....
        - 3.2.5.2.1. ....
        - 3.2.5.2.2. ....
  - 3.3. ....
    - 3.3.1. ....
      - 3.3.1.1. ....
      - 3.3.1.2. ....
    - 3.3.2. ....
      - 3.3.2.2. ....
  - 3.4. ....
- 4. **TRANSMISSION**
  - 4.1. ....
  - 4.2. ....
  - 4.6. ....
  - 4.7. ....
- 5. **AXLES**

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5.4.	.....
6.	SUSPENSION
6.1.	.....
6.2.	.....
6.6.	.....
6.6.1.	.....
6.6.1.1.	AXLES
6.6.1.1.1.	.....
6.6.1.1.2.	.....
6.6.1.1.3.	.....
6.6.1.1.4.	.....
6.6.2.	.....
6.6.2.1.	.....
6.6.2.2.	.....
6.6.2.3.	.....
6.6.2.4.	.....
6.6.3.	.....
6.6.5.	.....
8.	BRAKES
8.1.	.....
8.2.	.....
8.2.1.	.....
8.2.2.	.....
8.2.3.	.....
8.2.4.	.....
8.3.	.....
8.4.	.....
8.5.	.....
8.5.1.	.....
8.6.	.....
8.7.	.....
8.7.1.	.....
8.7.2.	.....
8.8.	.....
8.9.	.....
8.10.	.....

ANNEX XIX

INFORMATION DOCUMENT No ...

.....  
.....

0.	GENERAL
0.1.	.....
0.2.	.....
0.3.	.....
0.3.1.	.....
0.4.	.....

*Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.*

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0.5.	.....
0.8	.....
1.	<b>GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE</b>
1.1.	.....
1.3.	.....
1.3.1.	.....
2.	<b>MASSES AND DIMENSIONS (e) (in kg and mm) (Refer to...</b>
2.1.	.....
2.3.1.	.....
2.6	.....
2.6.1	.....
2.7.	.....
2.7.1.	.....
2.8.	.....
2.8.1.	.....
2.9.	.....
2.10.	.....
2.12.	.....
2.12.2	.....
5.	<b>AXLES</b>
5.4.	.....
6.	<b>SUSPENSION</b>
6.1.	.....
6.2.	.....
6.6.	.....
6.6.1.	.....
6.6.1.1.	<b>AXLES</b>
6.6.1.1.1.	.....
6.6.1.1.2.	.....
6.6.1.1.3.	.....
6.6.1.1.4.	.....
6.6.2.	.....
6.6.2.1.	.....
6.6.2.2.	.....
6.6.2.3.	.....
6.6.2.4.	.....
6.6.3.	.....
8.	<b>BRAKES</b>
8.1.	.....
8.2.	.....
8.2.1.	.....
8.2.3.	.....
8.2.4.	.....
8.2.5.	.....
8.5	.....
8.5.1	.....
8.6.	.....
8.7.	.....



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	8.7.1.	.....
	8.7.2.	.....
8.8.		.....
8.9.		.....
8.10.		.....