

Council Directive of 21 December 1988 on the approximation of the laws of the Member States relating to certain components and characteristics of wheeled agricultural or forestry tractors (89/173/EEC) (repealed)

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Appendix

MODEL

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ANNEX III B

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Appendix 1

TOUGHENED-GLASS WINDSCREENS

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LAMINATED-GLASS PANES OTHER THAN WINDSCREENS

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 - 1.2. The secondary characteristics are as follows:
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 - 1.2.2.
 - 1.2.3.
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- 1. DEFINITION OF TYPE
 - 1.1. The principal characteristics are as follows:
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 - 1.1.2.
 - 1.1.3.
 - 1.1.3.1.
 - 1.1.3.2.
 - 1.1.4.
 - 1.2. The secondary characteristics are as follows:
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 - 2.2. Selection of samples
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 - 2.2.1.2.
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 - 2.2.1.2.3.
 - 2.2.2.
 - 2.2.3.
 - 2.2.4.
 - 2.3. Number of samples per set

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- 2.4. Test method
 - 2.4.1.
- 2.5. Points of impact (see Annex III N, Figure 3)
 - 2.5.1.
 - 2.5.2.
- 2.6. Interpretation of results
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 - 2.6.1.3.
 - 2.6.1.4.
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 - 2.6.3.
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 - 3.1. 227-g-ball test
 - 3.1.1. Indices of difficulty of the secondary characteristics.
 - 3.1.2. Number of test pieces
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 - 3.1.4.1.
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- 1. DEFINITION OF TYPE
 - 1.1. The principal characteristics are as follows:
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 - 1.1.2.
 - 1.1.3.
 - 1.1.4.
 - 1.1.5.
 - 1.1.6.
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 - 1.2.2.
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 - 1.2.4.
 - 1.2.5.

- 2. GENERAL
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 - 2.2.

- 3. HEADFORM TEST
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 - 3.2. Headform test on a complete windscreen
 - 3.2.1. Number of samples
 - 3.2.2. Test method
 - 3.2.2.1.
 - 3.2.2.2.
 - 3.2.3. Interpretation of results
 - 3.2.3.1.
 - 3.2.3.1.1.
 - 3.2.3.1.2.
 - 3.2.3.1.3.
 - 3.2.3.1.3.1.
 - 3.2.3.1.3.2.
 - 3.2.3.2.
 - 3.2.3.2.1.
 - 3.2.3.2.2.
 - 3.3. Head form test on flat test pieces
 - 3.3.1. Number of test pieces
 - 3.3.2. Test method
 - 3.3.2.1.
 - 3.3.2.2.
 - 3.3.3. Interpretation of results
 - 3.3.3.1.
 - 3.3.3.1.1.
 - 3.3.3.1.2.
 - 3.3.3.1.3.
 - 3.3.3.2.
 - 3.3.3.2.1.
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- 4. MECHANICAL STRENGTH TEST
 - 4.1. Indices of difficulty of the secondary characteristics
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 - 4.2.1. Number of test pieces
 - 4.2.2. Test method
 - 4.2.2.1.
 - 4.2.2.2.
 - 4.2.3. Interpretation of results
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 - 4.2.3.2.
 - 4.2.3.2.1.
 - 4.2.3.2.2.
 - 4.3. 227-g-ball test
 - 4.3.1. Indices of difficulty of the secondary characteristics
 - 4.3.2. Number of test pieces
 - 4.3.3. Test method
 - 4.3.3.1.
 - 4.3.3.2.

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- 4.3.4. Interpretation of results
 - 4.3.4.1.
 - 4.3.4.2.
 - 4.3.4.2.1.
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- 5. TEST OF RESISTANCE TO THE ENVIRONMENT
 - 5.1. Test of resistance to abrasion
 - 5.1.1. Indices of difficulty and test method
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 - 5.3.1. General requirement
 - 5.3.2.
 - 5.4. Resistance-to-humidity test
- 6. OPTICAL QUALITIES

ANNEX III G

LAMINATED-GLASS PANES OTHER THAN WINDSCREENS

- 1. DEFINITION OF TYPE
 - 1.1. The principal characteristics are as follows:
 - 1.1.1.
 - 1.1.2.
 - 1.1.3.
 - 1.1.4.
 - 1.1.5.
 - 1.2. The secondary characteristics are as follows:
 - 1.2.1.
 - 1.2.2.
 - 1.2.3.
- 2. GENERAL
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 - 2.2.
 - 2.3.
- 3. HEADFORM TEST
 - 3.1. Indices of difficulty of the secondary characteristics
 - 3.2. Number of test pieces
 - 3.3. Test method
 - 3.3.1.
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 - 3.4.1.2.
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- 4. MECHANICAL STRENGTH TEST — 227-g-BALL TEST
 - 4.1. Indices of difficulty of the secondary characteristics
 - 4.2. Number of test pieces
 - 4.3. Test method
 - 4.3.1.
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 - 4.4. Interpretation of results
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- 5. TEST OF RESISTANCE TO THE ENVIRONMENT
 - 5.1. Test of resistance to abrasion
 - 5.1.1. Indices of difficulty and test method
 - 5.1.2. Interpretation of results
 - 5.2. Test of resistance to high temperature
 - 5.3. Resistance-to-radiation test
 - 5.3.1. General requirement
 - 5.3.2.
 - 5.4. Resistance-to-humidity test
 - 5.4.1.
- 6. OPTICAL QUALITIES
 - 6.1. Light transmittance

ANNEX III H

TREATED LAMINATED-GLASS WINDSCREENS

- 1. DEFINITION OF TYPE
 - 1.1. The principal characteristics are as follows:
 - 1.1.1.
 - 1.1.2.
 - 1.1.3.
 - 1.1.4.
 - 1.1.5.
 - 1.1.6.
 - 1.1.7.
 - 1.2. The secondary characteristics are as follows:
 - 1.2.1.
 - 1.2.2.
 - 1.2.3.
 - 1.2.4.
 - 1.2.5.
- 2. GENERAL
 - 2.1.
 - 2.2.

3. TESTS PRESCRIBED
 - 3.1.
 - 3.2.

4. FRAGMENTATION TEST
 - 4.1. Indices of difficulty of the secondary characteristics
 - 4.2. Number of test pieces or samples
 - 4.3. Test method
 - 4.4. Impact point or points
 - 4.5. Interpretation of results
 - 4.5.1.
 - 4.5.1.1. In the case of a sample:
 - 4.5.1.1.1.
 - 4.5.1.1.2.
 - 4.5.1.1.3.
 - 4.5.1.2.
 - 4.5.2.
 - 4.5.2.1.
 - 4.5.2.2.

ANNEX III I

SAFETY-GLASS PANES FACED WITH PLASTIC MATERIAL ON THE INSIDE

1. DEFINITION OF TYPE

2. TEST OF RESISTANCE TO ABRASION
 - 2.1. Indices of difficulty and test method
 - 2.2. Interpretation of results

3. RESISTANCE-TO-HUMIDITY TEST
 - 3.1.
 - 3.2.

4. TEST OF RESISTANCE TO TEMPERATURE CHANGES

5. FIRE-RESISTANCE TEST

6. TEST OF RESISTANCE TO CHEMICALS

ANNEX III J

GLASS-PLASTIC WINDSCREENS

1. DEFINITION OF TYPE
 - 1.1. The principal characteristics are as follows:
 - 1.1.1.
 - 1.1.2.
 - 1.1.3.
 - 1.1.4.
 - 1.1.5.
 - 1.1.6.

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- 1.1.7.
- 1.1.8.
- 1.2. The secondary characteristics are as follows:
 - 1.2.1.
 - 1.2.2.
 - 1.2.3.
 - 1.2.4.
 - 1.2.5.
- 2. GENERAL
 - 2.1.
 - 2.2.
- 3. HEADFORM TEST
 - 3.1. Indices of difficulty of the secondary characteristics
 - 3.2. Headform test on a complete windscreen
 - 3.2.1. Number of samples
 - 3.2.2. Test method
 - 3.2.2.1.
 - 3.2.2.2.
 - 3.2.3. Interpretation of results
 - 3.2.3.1.
 - 3.2.3.1.1.
 - 3.2.3.1.2.
 - 3.2.3.1.3.
 - 3.2.3.2.
 - 3.2.3.2.1.
 - 3.2.3.2.2.
 - 3.3. Headform test on flat test pieces
 - 3.3.1. Number of test pieces
 - 3.3.2. Test method
 - 3.3.2.1.
 - 3.3.2.2.
 - 3.3.3. Interpretation of results
 - 3.3.3.1.
 - 3.3.3.1.1.
 - 3.3.3.1.2.
 - 3.3.3.1.3.
 - 3.3.3.2.
 - 3.3.3.2.1.
 - 3.3.3.2.2.
- 4. MECHANICAL STRENGTH TEST
 - 4.1. Indices of difficulty, test method and interpretation of results
 - 4.2.
- 5. TEST OF RESISTANCE TO THE ENVIRONMENT
 - 5.1. Test of resistance to abrasion
 - 5.1.1. Test of resistance to abrasion on the outer face
 - 5.1.1.1.
 - 5.1.2. Test of resistance to abrasion on the inner face
 - 5.1.2.1.
 - 5.2. Test of resistance to high temperature

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- 5.3. Resistance-to-radiation test
- 5.4. Resistance-to-humidity test
- 5.5. Test of resistance to temperature changes
- 6. OPTICAL QUALITIES
- 7. FIRE-RESISTANCE TEST
- 8. TEST OF RESISTANCE TO CHEMICALS

ANNEX III K

GLASS-PLASTIC PANES OTHER THAN WINDSCREENS

- 1. DEFINITION OF TYPE
 - 1.1. The principal characteristics are as follows:
 - 1.1.1.
 - 1.1.2.
 - 1.1.3.
 - 1.1.4.
 - 1.1.5.
 - 1.1.6.
 - 1.2. The secondary characteristics are as follows:
 - 1.2.1.
 - 1.2.2.
 - 1.2.3.
- 2. GENERAL
 - 2.1.
 - 2.2.
 - 2.3.
- 3. HEADFORM TEST
 - 3.1. Indices of difficulty of the secondary characteristics
 - 3.2. Number of test pieces
 - 3.3. Test method
 - 3.3.1.
 - 3.3.2.
 - 3.4. Interpretation of results
 - 3.4.1.
 - 3.4.1.1.
 - 3.4.1.2.
 - 3.4.1.3.
 - 3.4.2.
 - 3.4.2.1.
 - 3.4.2.2.
- 4. MECHANICAL STRENGTH TEST — 227-g-BALL TEST
 - 4.1.
 - 4.2.
- 5. TEST OF RESISTANCE TO THE ENVIRONMENT

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- 5.1. Test of resistance to abrasion
 - 5.1.1. Test of resistance to abrasion on the outer face
 - 5.1.2. Test of resistance to abrasion on the inner face
- 5.2. Test of resistance to high temperature
- 5.3. Resistance-to-radiation test
- 5.4. Resistance-to-humidity test
- 5.5. Test of resistance to temperature changes

- 6. OPTICAL QUALITIES

- 7. FIRE-RESISTANCE TEST

- 8. TEST RESISTANCE TO CHEMICALS

ANNEX III L
DOUBLE-GLAZED UNITS

- 1. DEFINITION OF TYPE
 - 1.1. The principal characteristics are as follows:
 - 1.1.1.
 - 1.1.2.
 - 1.1.3.
 - 1.1.4.
 - 1.1.5.
 - 1.2. The secondary characteristics are:
 - 1.2.1.

- 2. GENERAL
 - 2.1.
 - 2.2.
 - 2.3.

- 3. HEADFORM TEST
 - 3.1. Index of difficulty of the secondary characteristics
 - 3.2. Number of test pieces
 - 3.3. Test method
 - 3.3.1.
 - 3.3.2.
 - 3.3.3.
 - 3.4. Interpretation of results
 - 3.4.1.
 - 3.4.2.
 - 3.4.2.1.
 - 3.4.2.2.
 - 3.4.2.3.
 - 3.4.3.
 - 3.4.3.1.
 - 3.4.3.2.
 - 3.4.3.3.
 - 3.4.3.4.
 - 3.4.4.

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- 3.4.4.1.
- 3.4.4.2.

4. OPTICAL QUALITIES

ANNEX III M

GROUPING OF WINDSCREENS FOR COMPONENT TYPE-APPROVAL TESTING

- 1.
 - 1.1.
 - 1.2.
 - 1.3.
- 2.
- 3.
- 4.
- 5.
- 6.
 - 6.1.
 - 6.2.
- 7.
- 8.
- 9.
 - 9.1.
 - 9.2.
 - 9.3.
 - 9.3.1.
 - 9.3.1.1.
 - 9.3.1.1.1.
 - 9.3.1.1.2.
 - 9.3.1.1.3.
 - 9.3.1.1.4.
 - 9.3.1.1.5.
 - 9.3.1.2.
 - 9.3.1.2.1.
 - 9.3.1.2.2.
 - 9.3.1.2.3.
 - 9.3.1.2.4.
 - 9.3.1.3.
 - 9.3.1.4.
 - 9.3.2.

ANNEX III N

MEASUREMENT OF THE HEIGHTS OF SEGMENT AND POSITION OF THE POINTS OF IMPACT

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ANNEX III O

CHECKS ON CONFORMITY OF PRODUCTION

1. DEFINITIONS

- 1.1.
- 1.2.
- 1.3.
- 1.4.
- 1.5.
- 1.6.
- 1.7.

2. TESTS

- 2.1. Toughened-glass windscreens
 - 2.1.1.
 - 2.1.2.
 - 2.1.3.
 - 2.1.4.
- 2.2. Uniformly toughened glass panes
 - 2.2.1.
 - 2.2.2.
 - 2.2.3.
 - 2.2.3.1.
 - 2.2.3.2.
- 2.3. Ordinary laminated-glass windscreens and glass-plastic windscreens
 - 2.3.1.
 - 2.3.2.
 - 2.3.3.
 - 2.3.4.
 - 2.3.5.
 - 2.3.6.
 - 2.3.7.
 - 2.3.7.1.
 - 2.3.7.2.
 - 2.3.7.3.
- 2.4. Ordinary lamirated-glass and glass-plastic panes other than windscreens
 - 2.4.1.
 - 2.4.2.
 - 2.4.3.
 - 2.4.4.
 - 2.4.4.1.

	2.4.4.2.
	2.4.4.3.
	2.4.5.
2.5.	Treated laminated-glass windscreens	
	2.5.1.
2.6.	Glass panes faced with plastic material	
	2.6.1.
	2.6.2.
	2.6.3.
2.7.	Double-glazed units	
3.	FREQUENCY OF TESTS AND RESULTS	
3.1.	Fragmentation	
	3.1.1. Tests	
		3.1.1.1.
		3.1.1.2.
		3.1.1.3.
		3.1.1.4.
		3.1.1.5.
		3.1.1.6.
	3.1.2. Results	
3.2.	Headform impact test	
	3.2.1. Tests	
	3.2.2. Results	
3.3.	2 260-g-ball impact test	
	3.3.1. Tests	
	3.3.2. Results	
3.4.	227-g-ball impact test	
	3.4.1. Tests	
	3.4.2. Results	
3.5.	High temperature	
	3.5.1. Tests	
	3.5.2. Results	
3.6.	Light transmission	
	3.6.1. Tests	
	3.6.2. Results	
3.7.	Optical distortion and secondary-image separation	
	3.7.1. Tests	
	3.7.2. Results	
3.8.	Resistance to abrasion	
	3.8.1. Tests	
	3.8.2. Results	
3.9.	Resistance to humidity	
	3.9.1. Tests	
	3.9.2. Results	
3.10.	Resistance to chemicals	
	3.10.1. Tests	
	3.10.2. Results	

ANNEX III P

MODEL

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ANNEX IV

MECHANICAL COUPLINGS BETWEEN TRACTOR AND TOWED VEHICLE AND VERTICAL LOAD ON THE COUPLING POINT

- 1. Definitions
 - 1.1.
 - 1.2.
 - 1.2.1.
 - 1.2.2.
 - 1.2.3.
 - 1.2.4.
 - 1.2.5.
 - 1.3.
 - 1.4.
 - 1.5.
 - 1.6.
 - 1.7.
 - 1.8.
 - 1.9.

- 2. General requirements
 - 2.1.
 - 2.2.
 - 2.3.
 - 2.4.
 - 2.5.
 - 2.6.
 - 2.7.
 - 2.8.
 - 2.9.

- 3. Special requirements
 - 3.1. Dimensions
 - 3.2. Strength
 - 3.2.1.
 - 3.2.2.
 - 3.3. Vertical load on the coupling point (S)
 - 3.3.1.
 - 3.3.2.
 - 3.3.2.1.
 - 3.3.2.2.
 - 3.4. Height above the ground of the coupling device (h)
 - 3.4.1.

- 4. Application for EEC component type-approval
 - 4.1.

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- 4.2.
- 5. Inscriptions
 - 5.1.
 - 5.1.1.
 - 5.1.2.
 - 5.1.3.
 - 5.1.4.
 - 5.2.
- 6. Instructions for use

Appendix 1

DRAWINGS OF MECHANICAL COUPLING COMPONENTS

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.....
.....
.....
.....

Appendix 2

DYNAMIC TEST METHOD

- 1. TEST PROCEDURE
- 2. TEST CRITERIA
- 3. TEST PROCEDURE
 - 3.1. General requirements
 - 3.2. Test forces

Appendix 3

COUPLING DEVICE

- 1. TEST SPECIFICATIONS
 - 1.1. General
 - 1.1.1.
 - 1.2. Test preparation
 - 1.3. Test instruments
 - 1.4. Test procedure
 - 1.4.1.
 - 1.4.1.1.
 - 1.4.2.
 - 1.4.2.1.
 - 1.4.2.2.

1.5.

Appendix 4

COMPONENT TYPE-APPROVAL MARK

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.....
.....

Appendix 5

MODEL EEC COMPONENT TYPE-APPROVAL CERTIFICATE

Appendix 6

CONDITIONS FOR GRANTING EEC TYPE-APPROVAL

- 1.
- 2.
- 3.
- 4.
- 5.
 - 5.1.
 - 5.2.
 - 5.3.
- 6.
- 7.

Appendix 7

MODEL

ANNEX V

LOCATION AND METHOD OF AFFIXING STATUTORY PLATES
AND INSCRIPTIONS ON THE BODY OF THE TRACTOR

- 1. GENERAL
 - 1.1.
- 2. MANUFACTURER'S PLATE
 - 2.1.

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- 2.1.1.
- 2.1.2.
- 2.1.3.
- 2.1.4.
- 2.1.5.
- 2.1.6.
- 2.1.7.
- 2.1.8.
- 2.2.
- 3. TRACTOR IDENTIFICATION NUMBER
 - 3.1.
 - 3.1.1.
 - 3.1.2.
 - 3.1.3.
- 4. CHARACTERS
 - 4.1.
 - 4.2.
 - 4.2.1.
 - 4.2.2.
 - 4.2.2.1.
 - 4.2.2.2.

Example of manufacturer's plate

Appendix

MODEL

ANNEX VI

BRAKE CONTROL OF TOWED VEHICLES AND BRAKE COUPLING BETWEEN THE TRACTOR AND TOWED VEHICLES

- 1.
- 2.
- 3.
 - 3.1. Hydraulic coupling:
 - 3.2. Pneumatic coupling:

Appendix

MODEL