

PAZIŅOJUMS  
COMMUNICATIONissued by: **Road traffic safety directorate**

concerning: <sup>(1)</sup> APPROVAL GRANTED  
~~APPROVAL EXTENDED~~  
~~APPROVAL REFUSED~~  
~~APPROVAL WITHDRAWN~~  
~~PRODUCTION DEFINITELY DISCONTINUED~~

of a type of safety glazing material pursuant to Regulation No. 43.

Approval number: **43R-01 0022**Extension No.: **00**

- |   |  |
|---|--|
| 1. Class of safety glazing material:  | <b>Laminated-glass windscreens (4.96 mm)</b>   |
| 2. Description of the type of glazing:  | <b>Appendix 3 and Appendix 10</b>  |
| 3. Trade names or marks:  | <b>HGW, SAFEX</b>  |
| 4. Manufacturer's name and address:   | <b>Hindustan Glass Works Ltd.<br/>G.T. Road Bamrauli,<br/>Allahabad (UP) 211012, India</b> |
| 5. If applicable, name and address of manufacturer's representative:                                    | <b>Not applicable</b>  |
| 6. Submitted for approval on:   | <b>13.01.2016</b>  |
| 7. Technical Service responsible for conducting approval tests:   | <b>TÜV Rheinland-KTI Ltd.</b>  |
| 8. Date of report issued by that Service:   | <b>30.10.2015</b>  |
| 9. Number of report issued by that Service:   | <b>89-R43-07925/15</b>   |
| 10. Approval is granted/ <del>refused</del> / <del>extended</del> / <del>withdrawn</del> <sup>(2)</sup> |  |
| 11. Reason(s) for extension of approval:  | <b>Not applicable</b>  |
| 12. Remarks:  | <b>Not applicable</b>  |

13. Place: **25 Miera st., Rīga LV-1001, Latvia**
14. Date: **19.01.2016**
15. Signature: **Jānis Liepiņš**
16. The list of documents filed with the Type Approval Authority which has granted approval and available on request is annexed to this communication.



Attachments:	Information package.	HGW/FM/LGW/02	20.08.2015
	Test report.	89-R43-07925/15	30.10.2015

<sup>(1)</sup>Strike out what does not apply.

Annex 1 - Appendix 3

**Laminated-glass windscreens**

**Principal and secondary characteristics as defined in Annexes 6, 8 or 9 to Regulation No. 43**

Approval No.: **E32 43R-01 0022**      Extension No.: **00**

**Principal characteristics:**

Number of layers of glass:	<b>2</b>
Number of layers of interlayer:	<b>1</b>
Nominal thickness of the windscreen:	<b>4.96 mm</b>
Nominal thickness of interlayer(s):	<b>0.76 mm</b>
Special treatment of glass:	<b>Autoclave</b>
Nature and type of interlayer(s):	<b>PVB</b>
Nature and type of plastics coating(s):	<b>Not applicable</b>
Nominal thickness of plastic coating(s):	<b>Not applicable</b>
Colouring of interlayer (total/partial):	<b>Clear</b>

**Secondary characteristics:**

Nature of the material (plate, float, sheet glass):	<b>Float</b>
Colouring of glass (colourless/tinted):	<b>Green</b>
Colouring of plastics coating(s):	<b>Not applicable</b>
Conductors incorporated (yes/no):	<b>No</b>
Opaque obscuration incorporated (yes/no):	<b>No</b>
Remarks:	<b>Not applicable</b>

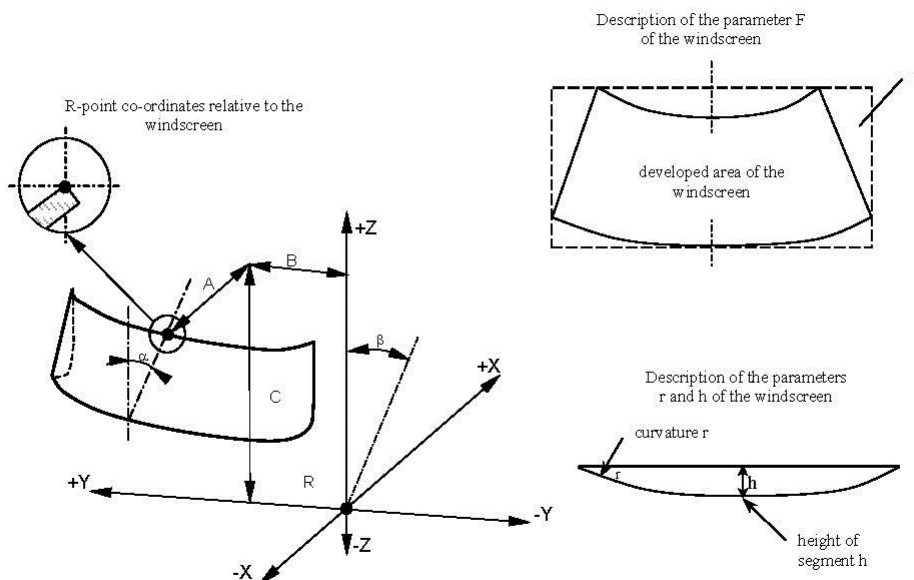


Annex 1 - Appendix 10

**Contents of the list of windscreens<sup>(1)</sup>**

**For each of the windscreens covered by this approval, at least the following particulars shall be provided:**

Vehicle manufacturer:	<b>Atul Auto Pvt. Ltd.</b>
Type of vehicle:	<b>Atul RE</b>
Vehicle category:	<b>L5</b>
Developed area (F):	<b>0.61 m<sup>2</sup></b>
Height of segment (h):	<b>201.57 mm</b>
Curvature (r):	<b>988.16 mm</b>
Installation angle ( $\alpha$ ):	<b>34°</b>
Seat-back angle ( $\beta$ ):	<b>10°</b>
R-point coordinates (A, B, C) relative to the centre of the upper edge of the windscreen:	<b>A: 484 mm; B: 0 mm; C: 70 mm</b>



<sup>(1)</sup> These particulars shall be attached to appendices 1, 2 (if applicable), 3 and 5 to this annex.

Approval No.: E-32-43R0xxxx

Extension No.:00

**Information as Per ECE R 43 Annexure 1- Appendix 3  
Laminated Glass Windscreens**

(Principal and secondary characteristics as defined in annexes 6,8 or annex 9 to Regulation number 43)

1.0	Name of the manufacturer	Hindustan Glass Works LTD
2.0	Address of the manufacturing plant	G.T. Road,Bamrauli,Allahabad-211012. INDIA
3.0	<b>Principal characteristics:</b>	
3.1	Number of layers of glass	: Two (2.1+2.1)
3.2	Number of layers of interlayer	: PVB 0.76 mm thickness
3.3	Nominal thickness of the windscreen	: 4.96 mm
3.4	Nominal thickness of interlayer (s)	: 0.76 mm
3.5	Special treatment of glass	: Autoclave
3.6	Nature and type of interlayer (s)	: PVB (poly Vinyl Butyl)
3.7	Nature and type of plastics coating (s)	: N.A.
3.8	Nominal thickness of plastics coating(s)	: N.A.
3.9	Colouring of interlayer	: Clear
4.0	<b>Secondary characteristic:</b>	
4.1	Nature of the material (plate,float,sheet glass)	: Float Glass
4.2	Colouring of glass (Colourless/tinted)	: Green
4.3	Colouring of plastics coating(s)	: NA
4.4	Conductors incorporated (yes/no)	: NA
4.5	Opaque obscuration incorporated (yes/no)	: NA
Remarks		



Document No :HGW/FM/LGW/02  
Date:- 20-08-2015

Approval No: E32-43R0xxxx

Extension No : 00

**Information As Per ECE R43- Annexure 1- Appendix- 3-A  
(according to Annex 1 –Appendix 8 of ECE-R43)  
Annex 3A(according to Annex 1 –Appendix 8 of ECE-R43)**

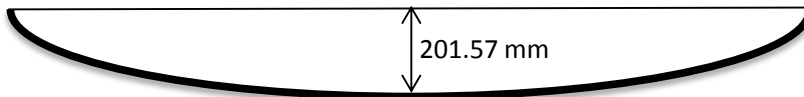
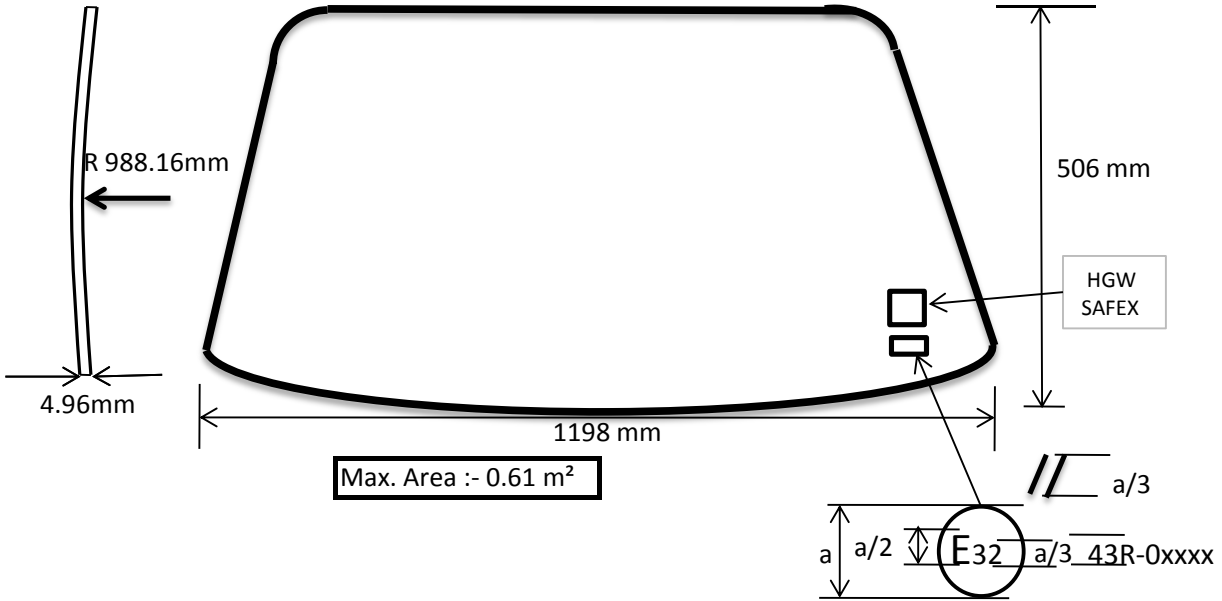
Contents of the list of windscreens

For each of the windscreens covered by this approval, at least the following particulars shall be provided:

1	Vehicle manufacturer	:	Atul Auto Pvt. Ltd.
2	Type of vehicle	:	Atul RE
3	Vehicle category	:	L5
4	Developed area (F)	:	0.61 m <sup>2</sup>
5	Height of segment (h)	:	201.57 mm
6	Curvature (r)	:	988.16 mm
7	Installation angle ( $\alpha$ )	:	34 <sup>0</sup>
8	Seat back angle ( $\beta$ )	:	10 <sup>0</sup>
9	R- point co-ordinates ( A, B, C) relative to the centre of the upper edge of the windscreen	:	A=484mm; B=0mm; C=708mm



DRAWING FOR LAMINATED WINDSCREEN




Max. height of segment

Info Doc.No. HGW/FM/LGW/02



Company name	Hindustan glass works ltd.
Type	Laminated curved windscreen
Model	3-Wheeler Atul
Thickness	4.96 mm
Drawing No.	2705054601

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<b>Test Report No. 89-R43-07925/15</b>		
<b>Vehicle type / Type</b>	<b>: Laminated Windscreen 4.96mm</b>	
<b>Manufacturer</b>	<b>: HINDUSTAN GLASS WORKS LTD.</b>	

## TEST REPORT

according to UNECE Regulation

### UNIFORM PROVISIONS CONCERNING THE APPROVAL OF SAFETY GLAZING MATERIALS AND THEIR INSTALLATION ON VEHICLES

**ECE R43**

**Including all amendments until**

**Series of amendment : 01**

**Supplement 4**

Approval Status:	
<input checked="" type="checkbox"/>	Application for granting of a type approval – E32-43R-01XXXX Ext 00
<input type="checkbox"/>	Application for an extension to type approval no.

### Structure of the Test Report


#### Item No.

- 0. General information
- 1. Tested vehicle(s) / object(s)
- 2. Test record
- 3. Appendices
- 4. Statement of conformity
- Attachment 1. Communication concerning the type approval

The Test Report shall be reproduced and published in full by the client only. It shall however be reproduced and published partially with the written permission of the Testing Laboratory only.





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<b>Test Report No. 89-R43-07925/15</b>		
<b>Vehicle type / Type</b>	<b>: Laminated Windscreen 4.96mm</b>	
<b>Manufacturer</b>	<b>: HINDUSTAN GLASS WORKS LTD.</b>	


## 0. General Information

- 0.1. Make (trade name of the manufacturer) : HGW, SAFEX
- 0.2. Type : Laminated Windscreen 4.96 mm
- 0.3. Category of vehicle : L5
- 0.4. Name and address of the manufacturer : HINDUSTAN GLASS WORKS LTD  
G.T. ROAD BAMRAULI ,  
ALLAHABAD (UP) 211012, INDIA
- 0.5. No. of the information document : HGW/FM/LGW/02  
-Date of issue : 20/08/2015  
-Date of last change :

## 1. Tested vehicle(s) / object(s)

- 1.1 Description
- 1.1.1 Vehicle / object : ORDINARY LAMINATED-GLASS WINDSCREENS
- Commercial description(s) : --
- Type(s) /variant(s) /version(s) : Laminated Windscreen 4.96 mm / -- / --
- Identification number : --
- 1.1.2 Condition of vehicle(s)/Object(s) : New component
- 1.2 Worst case selection : Not applicable
- 1.3. Remarks : --



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<b>Vehicle type / Type</b>	<b>: Laminated Windscreen 4.96mm</b>	
<b>Manufacturer</b>	<b>: HINDUSTAN GLASS WORKS LTD.</b>	

## 2. Test record

- 2.1. Equipment for measuring and testing : The test facilities / measurement equipments used were in compliance with the test requirements
- 2.1.1. Specifications for the test site : In compliance with the requirement(s) of the regulation.
- 2.1.2. Subcontracting : Not applicable
- 2.2. Test results
- 2.2.1. Test results referring to measurements : Refer appendix 2
- 2.2.2. Test results of not measurable Attributes : Refer appendix 1
- 2.2.3. Alternative test methods : Not applicable

Numbering according to ECE Regulation No. 43

Remarks concerning extension : ~~The vehicle type has been tested according to the modification(s) mentioned in appendix 0.~~

~~The new parts meet the requirements of the regulation / directive.~~

~~An actual practical test of the vehicle was not necessary. The results of the previous test(s) are still valid.~~


- 2.3. Additional information : The results of the test refer exclusively to the object(s) mentioned under point 1.1 of this report.

Test site : 1. HINDUSTAN GLASS WORKS LTD  
G.T. ROAD BAMRAULI ,  
ALLAHABAD (UP) 211012, INDIA  
2. The Automotive Research Association of India,  
Vetal hill, S no. 102, Off Paud road, Kothrud,  
Pune 411 038 (INDIA)

Test date : October 11-14, 2015, May 04-05, 2015

Remarks : --



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<b>Manufacturer</b>	<b>: HINDUSTAN GLASS WORKS LTD.</b>	

### 3. Appendices

- Appendix 0 : List of modifications
- Appendix 1 : Test results of not measurable attributes
- Appendix 2 : Test results

### 4. Statement of conformity

In the section 0.5. mentioned information document and the type described in that comply with the requirements mentioned on page 1.

With regard to the required level of performance to be achieved, the tested samples were representative for the type to be approved (see section 1.2).

The mentioned test results refer to the ~~vehicle(s)~~ /object(s) described under section 1.1 of this report.


The test report consists of total 13 pages.

Place / Date  
Hungary / 2015-10-30



Rajendra K Bandal  
Expert Technical Service



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<b>Test Report No. 89-R43-07925/15</b>		
<b>Vehicle type / Type</b>	<b>: Laminated Windscreen 4.96mm</b>	
<b>Manufacturer</b>	<b>: HINDUSTAN GLASS WORKS LTD.</b>	

**List of modifications**

**Appendix 0**


Correction of : ---

Modification of : ---

Addition of : ---

Deletion of : ---




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<b>Vehicle type / Type</b>	<b>: Laminated Windscreen 4.96mm</b>	
<b>Manufacturer</b>	<b>: HINDUSTAN GLASS WORKS LTD.</b>	

**Test Results of not measurable attributes**

**Appendix 1**

<b>Clauses in regulation</b>	<b>Parameter</b>	<b>Remark</b>
6.0	General requirements	
6.1	All glazing materials, including glazing material for the manufacture of windscreens, shall be such that, in the event of shattering, the danger of bodily injury is reduced as far as possible. The glazing material shall be sufficiently resistant to the incidents likely to occur in normal traffic, and to atmospheric and temperature conditions, chemical action, combustion and abrasion.	: Complies the requirement.
6.2	Safety glazing materials shall in addition be sufficiently transparent, shall not cause any noticeable distortions of objects as seen through the windscreen, and shall not give rise to any confusion between the colours used in roadtraffic signs and signals. In the event of the windscreen's shattering, the driver shall still be able to see the road clearly enough to be able to brake and stop his vehicle safely.	: Complies the requirement.




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<b>Vehicle type / Type</b>	<b>: Laminated Windscreen 4.96mm</b>	
<b>Manufacturer</b>	<b>: HINDUSTAN GLASS WORKS LTD.</b>	

**Test Results of measurable attributes**
**Appendix 2**

<b>Annexure 6</b>	<b>HEADFORM TEST</b>				
<b>3.</b>		<b>Sample No</b>			
<b>3.2.</b>	Headform test on a complete windscreen				
<b>3.2.3.1.</b>	This test shall be deemed to have given a satisfactory result if the following conditions are fulfilled:	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>3.2.3.1.1.</b>	The sample breaks displaying numerous circular cracks centred approximately on the point of impact, the cracks nearest to the point of impact being not more than 80 mm from it;	43 mm	41 mm	46 mm	42 mm
<b>3.2.3.1.2.</b>	The layers of glass shall remain adhering to the plastics-material interlayer. One or more partial separation from the interlayer with a distance of less than 4 mm	0.98 mm	1.0 mm	0.96 mm	0.98 mm
<b>3.2.3.1.3.</b>	On the impact side:				
<b>3.2.3.1.3.1</b>	The interlayer must not be laid bare over an area of more than 20 cm <sup>2</sup> ,	2cm <sup>2</sup>	3cm <sup>2</sup>	3cm <sup>2</sup>	2cm <sup>2</sup>
<b>3.2.3.1.3.2</b>	A tear in the interlayer up to a length of 35 mm is allowed.	4mm	2mm	5mm	3mm
<b>3.2.3.2.</b>	A set of test pieces submitted for approval shall be considered satisfactory from the point of view of the headform test if all the tests give a satisfactory result.	Complies the requirement.			
<b>4.</b>	<b>Mechanical strength test</b>				
<b>4.2.</b>	2,260 g ball test	Ball not passed within 5 sec in all 12 samples tested.			
<b>4.2.3.1.</b>	The test shall be deemed to have given a satisfactory result if the ball does not pass through the glazing within five seconds after the moment of impact.	Complies the requirement.			
<b>4.2.3.2.</b>	A set of test pieces submitted for approval shall be considered satisfactory from the point of view of the 2,260 g ball test if at least eleven of the twelve tests have given a satisfactory result.				




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<b>Manufacturer</b>	<b>: HINDUSTAN GLASS WORKS LTD.</b>	

<b>4.3.</b>	<b>227 g ball test</b>																																											
4.3.4.1.	The test shall be considered to have given a satisfactory result if the following conditions are met: <ul style="list-style-type: none"> <li>- The ball does not pass through the test piece,</li> <li>- The test piece does not break into several pieces,</li> <li>- If the interlayer is not torn, the weight of fragments detached from the side of the glass opposite to the point of impact shall not exceed the appropriate values specified in paragraph 4.3.3.2. above.</li> </ul>			: See Table 2 For 4.96 mm thickness																																								
	Temperature +40 °C ± 2 °C ( Sample no. 1 to10)	Height of fall (m) 9	Maximum permitted mass of the fragments (gm) 15	Sample No. <table border="1"> <thead> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>7.3 gm</td> <td>8.2 gm</td> <td>7.8 gm</td> <td>7.5 gm</td> </tr> <tr> <td>5</td> <td>6</td> <td>7</td> <td>8</td> </tr> <tr> <td>9.2 gm</td> <td>8.7 gm</td> <td>8.3 gm</td> <td>7.6 gm</td> </tr> <tr> <td>9</td> <td>10</td> <td>11</td> <td>12</td> </tr> <tr> <td>6.8 gm</td> <td>7.3 gm</td> <td>7.8 gm</td> <td>8.6 gm</td> </tr> <tr> <td>13</td> <td>14</td> <td>13</td> <td>14</td> </tr> <tr> <td>8.4 gm</td> <td>8.8 gm</td> <td>7.2 gm</td> <td>8.1 gm</td> </tr> <tr> <td>17</td> <td>18</td> <td>17</td> <td>18</td> </tr> <tr> <td>7.5 gm</td> <td>6.7 gm</td> <td>8.5 gm</td> <td>7.7 gm</td> </tr> </tbody> </table>	1	2	3	4	7.3 gm	8.2 gm	7.8 gm	7.5 gm	5	6	7	8	9.2 gm	8.7 gm	8.3 gm	7.6 gm	9	10	11	12	6.8 gm	7.3 gm	7.8 gm	8.6 gm	13	14	13	14	8.4 gm	8.8 gm	7.2 gm	8.1 gm	17	18	17	18	7.5 gm	6.7 gm	8.5 gm	7.7 gm
1	2	3	4																																									
7.3 gm	8.2 gm	7.8 gm	7.5 gm																																									
5	6	7	8																																									
9.2 gm	8.7 gm	8.3 gm	7.6 gm																																									
9	10	11	12																																									
6.8 gm	7.3 gm	7.8 gm	8.6 gm																																									
13	14	13	14																																									
8.4 gm	8.8 gm	7.2 gm	8.1 gm																																									
17	18	17	18																																									
7.5 gm	6.7 gm	8.5 gm	7.7 gm																																									
	-20 °C ± 2 °C ( Sample no. 11 to 20)	8.5	15																																									
4.3.4.2.	A set of test pieces submitted for approval shall be considered satisfactory from the point of view of the 227 g ball test if at least eight of the ten tests carried out at each temperature, have given a satisfactory result.			: Complies the requirement.																																								
<b>5.</b>	<b>Test of resistance to the environment</b>																																											
5.1.	Test of resistance to abrasion																																											
5.1.2.	The safety-glass pane shall be considered satisfactory with respect to abrasion resistance if the light scatter as a result of abrasion of the test piece does not exceed 2 per cent.			: Sample 1 – 1.09% Sample 2 – 1.47% Complies the requirement.																																								
<b>5.2.</b>	<b>Test of resistance to high temperature</b>																																											
Annexure 3 5.3.1	The requirements of Annex 3, paragraph 5., shall apply, The test for resistance to high temperature shall be considered to give a positive result if bubbles or other defects are not formed more than 15 mm from an uncut edge or 25 mm from a cut edge of the test piece or sample or more than 10 mm away of any cracks which may occur during the test. A set of test pieces or samples submitted for approval shall be considered satisfactory from the point of view of the test for resistance to high temperature if all the tests have given a satisfactory result.			: No, Bubble & No Cracks																																								
5.3.2																																												






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<b>Vehicle type / Type</b>	: <b>Laminated Windscreen 4.96mm</b>	
<b>Manufacturer</b>	: <b>HINDUSTAN GLASS WORKS LTD.</b>	

<b>5.3.</b>	<b>Resistance-to-radiation test</b>							
5.3.2 Annexure 3	The requirements of Annex 3, paragraph 6.3. shall apply.	: Test Sample no						
6.3.1.1	The test for resistance to radiation shall be deemed to have given a positive result if the following conditions are fulfilled. The total light transmittance when measured pursuant to paragraphs 9.1.1. and 9.1.2. of this annex does not fall below 95 per cent of the original value before irradiation and in any event does not fall:	<table border="1"> <tr> <th>1</th> <th>2</th> <th>3</th> </tr> <tr> <td>97%</td> <td>98%</td> <td>97%</td> </tr> </table>	1	2	3	97%	98%	97%
1	2	3						
97%	98%	97%						
6.3.1.1.1.	Below 70 per cent in the case of windscreens and other glazing located in a position requisite for driving visibility.	Complies the requirement.						
6.3.2.	A set of test pieces or samples submitted for approval shall be considered satisfactory from the point of view of the resistance to radiation test if all the tests have given a satisfactory result.							
<b>5.4.</b>	<b>Resistance-to-humidity test</b>							
Annexure 3 7.3.1	The requirements of Annex 3, paragraph 7., shall apply	: Test Sample no						
7.3.2	Safety glazing shall be deemed to be satisfactory from the point of view of resistance to humidity if no significant change is observed more than 10 mm from the uncut edges and more than 15 mm from the cut edges after ordinary and treated laminated glass glazing have been maintained for two hours in the ambient atmosphere, and plastics-faced and glass-plastics glazing have been maintained for 48 hours in the ambient atmosphere.	<table border="1"> <tr> <th>1</th> <th>2</th> <th>3</th> </tr> <tr> <td>3.0 mm</td> <td>5.0 mm</td> <td>2.0 mm</td> </tr> </table>	1	2	3	3.0 mm	5.0 mm	2.0 mm
1	2	3						
3.0 mm	5.0 mm	2.0 mm						
	A set of test pieces or samples submitted for approval shall be considered satisfactory from the point of view of the test for resistance to humidity if all the tests have given a satisfactory result.	Complies the requirement.						
<b>6.</b>	<b>Optical qualities</b>							
	The requirements concerning optical qualities set out in Annex 3, paragraph 9., shall apply to every type of windscreen. This shall not apply to flat windscreens which fall within an already approved group if the rake angle is less than 40° to the vertical.	:						
<b>Annexure 3</b>	<b>Light transmission test</b>							
9.1								
9.1.4	The regular light transmittance shall be measured according to paragraph 9.1.2. of this annex and the result shall be recorded. In the case of a windscreen, it shall not be less than 70 per cent	: 82% Complies the requirement.						





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<b>9.2.</b>	<b>Optical distortion test</b>					
9.2.6	A windscreen type shall be considered satisfactory with respect to optical distortion if, in the four windscreens submitted for testing, optical distortion does not exceed the values given below for each zone or test area.		Test Sample No			
	A - extended according to para. 9.2.2.1.	2' of arc	1	2	3	4
	B - reduced according to para. 2.4. of Annex 18	6' of arc	2'	1'	2'	2'
	Zone I	2' of arc	4'	3.6'	3.2'	3.4'
			0.3'	0.7'	0.4'	0.5'
			Complies the requirement.			
<b>9.3.</b>	<b>Secondary-image-separation test</b>					
9.3.5	A windscreen type shall be considered satisfactory with respect to secondary image separation if, in the four windscreens submitted for testing, separation of the primary and secondary – images does not exceed the values given below for each zone or test area.		Test Sample No			
	Zone A - extended according to para. 9.2.2.1	15' of arc	1	2	3	4
	Zone B - reduced according to para. 2.4. of Annex 18	25' of arc	5.6'	5.2'	6.1'	5.4'
	Zone I	15' of arc	7.0'	7.5'	8.1'	7.8'
			3.2'	2.6'	3.4'	2.5'
			Complies the requirement.			

