



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de la Mobilité
et des Travaux publics

Département de la mobilité
et des transports

SOCIÉTÉ NATIONALE DE
CERTIFICATION ET D'HOMOLOGATION
s.à r.l.

Registre de Commerce: B 27180

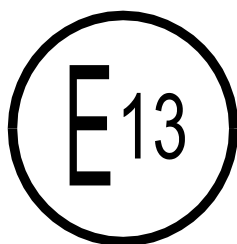
L-5201 Sandweiler



Référence: E13*43R01/07*9917*00

Annexes: - Rapport technique
- Fiche de renseignements du constructeur

Luxembourg, le 14 novembre 2019



Communication concernant ⁽¹⁾ / Communication concerning ⁽¹⁾:

- la délivrance d'une homologation / approval granted
- l'extension d'homologation / approval extended
- le refus d'homologation / approval refused
- le retrait d'homologation / approval withdrawn
- l'arrêt définitif de la production / production definitely discontinued

d'un type de vitrage de sécurité en application du Règlement N° 43
of a type of safety glazing material pursuant to Regulation N° 43

Numéro d'homologation:
Approval number:

E13*43R01/07*9917*00

Marque d'homologation:
Approval mark:

VIII/C

 43R-019917

1. **Classe attribuée au vitrage de sécurité:**
Class of safety glazing material:

Rigid plastic panes

2. **Description du type de vitrage:**
Description of the glass pane:

Please refer to Appendix ~~1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12~~ ⁽¹⁾ and in the case of windscreens, the list conforming to Appendix 13

3. **Marque de fabrique ou de commerce:**
Trade names or marks:

MAXXAIR, AIRXCEL

Type:
Type:

DELUXE MAXXFAN LID

4. **Nom et adresse du fabricant:**
Manufacturer's name and address:

AIRXCEL, INC.
3050 N.St. Francis Street,
Wichita KS 67219,
United States of America

5. **Nom et adresse du représentant du fabricant
(le cas échéant):**

If applicable, name and address of the manufacturer's representative: Not applicable

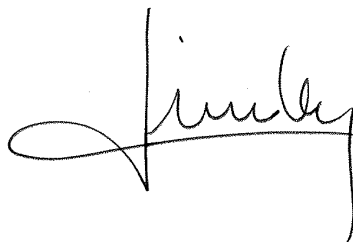
6. **Présenté à l'homologation le:**
Submitted for approval on: 06. - 30.09.2019
7. **Autorité déléguée:**
Assigned authority: *Société Nationale de Certification et d'Homologation L-5201 Sandweiler*
- Service technique chargé des essais d'homologation:**
Technical service responsible for conducting approval tests: ATE EL s.à r.l.
14, op Huefdreich
L-6871 Wecker
8. **Date du procès-verbal d'essai:**
Date of test report issued by that service: 11.10.2019
9. **Numéro du procès-verbal d'essai:**
Number of test report issued by that service: 66AXA0003A
10. **Homologation ⁽¹⁾:**
Approval is ⁽¹⁾: ~~Granted / extended / refused / withdrawn~~
11. **Motif(s) de l'extension d'homologation (le cas échéant):**
Reason(s) for extension of approval (if applicable): Not applicable
12. **Remarques:**
Remarks: None
13. **Lieu:**
Place: Luxembourg
14. **Date:**
Date: 14 novembre 2019
15. **Signature:**
Signature:

Pour le Ministre de la Mobilité
et des Travaux publics



Alain DISIVISCOUR
Conseiller

Pour la SNCH




Laurent LINDEN
Directeur opérationnel



16. **Est annexée la liste des pièces constituant le dossier d'homologation déposé au Service administratif ayant délivré l'homologation et pouvant être obtenue sur demande.**

The list of documents deposited with the Administrative Service which has granted approval is annexed to this communication and may be obtained on request.

See: INDEX to TYPE-APPROVAL REPORT

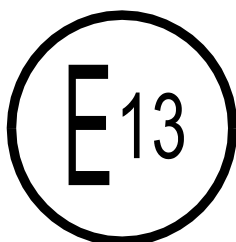
⁽¹⁾ **Biffer les mentions inutiles.**
Strike out what does not apply.



Référence: E13*43R01/07*9917*00

Annexes: - Rapport technique
- Fiche de renseignements du constructeur

Luxembourg, le 14 novembre 2019



Annexe 1 - Appendice 8

Annex 1 - Appendix 8

VITRAGES EN PLASTIQUE RIGIDE RIGID PLASTICS PANES

(Caractéristiques principales et secondaires conformément à l'annexe 14)

(Principal and secondary characteristics
in accordance with Annex 14)

N° d'homologation:

Approval N°:

E13*43R01/07*9917*00

Caractéristiques principales:

Principal characteristics:

- Nom chimique du vitrage:

Chemical designation of the material:

Polycarbonate

- Classe attribuée au vitrage par le fabricant:

The classification of the material by the manufacturer:

General PC material

- Procédé de fabrication:

Process of manufacture:

Injection molding process

- Forme et dimensions:

Shape and dimensions:

Greatest developed area (curved): 586.2 x 419.1 mm

Greatest height of segment: 111.4 mm

- Epaisseur nominale:

Nominal thickness:

3 mm

- Coloration du plastique rigide:

Colouring of the rigid plastic material:

Variant 1: Gray tinted

Variant 2: Light black (Smoke)

(light transmittance less than 70 per cent)

- Nature et type du revêtement de surface:

Nature and type of surface coating:

Not applicable

Caractéristiques secondaires:

Secondary characteristics:

- Conducteurs incorporés (oui / non):

Conductors incorporated (yes / no):

Yes / no

Remarques:

Remarks:

Only for sunroof



Référence: E13*43R01/07*9917*00

Annexes: - Rapport technique
- Fiche de renseignements du constructeur

Luxembourg, le 14 novembre 2019

INDEX DU DOSSIER D'HOMOLOGATION INDEX TO TYPE-APPROVAL REPORT

Numéro d'homologation:

Approval number:

E13*43R01/07*9917*00

Révision:

Revision:

00

Marque de fabrique:

Trade name or mark:

MAXXAIR, AIRXCEL

Type:

Type:

DELUXE MAXXFAN LID

1. Procès-verbal d'essai:

Test report:

N° 66AXA0003A

- Technical report:
- Index:
- General information:
- General test report:

Page(s) 1 & 2;
Annex I1 - Page(s) 1;
Annex GI1 - Page(s) 1 & 2.
Annex T - Page(s) 1 to 3.

2. Dossier du constructeur:

Report of the manufacturer:

N° 43.01-DELUXE MAXXFAN LID-00

- Manufacturer's information folder:

Page(s) 1 to 3.

3. Autres documents annexés:

Other documents annexed:

Not applicable

4. Date de délivrance de l'homologation initiale:

Date of issue of initial type approval:

14.11.2019

5. Date de la dernière délivrance de pages révisées:

Date of last issue of revised pages:

Not applicable

6. Date de la dernière délivrance d'une homologation révisée:

Date of last extension:

Not applicable



ATE · EL
ALLIED TECHNOLOGY EXPERTS
ENTERPRISE OF LUXEMBOURG

Technical Report No. 66AXA0003A
Type: DELUXE MAXXFAN LID

Tests and inspection concerning

SAFETY GLAZING MATERIALS

according to the ECE Regulation No. 43 including all amendments
up to Series 01, Supplement 7 of 16.10.2018

Manufacturer: AIRXCEL, INC.
3050 N.St. Francis Street,
Wichita KS 67219.
United States of America

Type	Type Approval No.:	Manufacturer:
DELUXE MAXXFAN LID	E13*43R01/07*....*00	AIRXCEL, INC.

Conclusion: The tests and checks carried out have shown the compliance of the type described in this report and the attached annexes with the Regulation mentioned above.

Shanghai, 11.10.2019

Mengting (Mtok) Xu
Ingénieur Inspecteur

Index: see Annex I1

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ATE · EL
ALLIED TECHNOLOGY EXPERTS
ENTERPRISE OF LUXEMBOURG

Technical Report No. 66AXA0003A
Type: DELUXE MAXXFAN LID

1 Tests and inspection results

Refer to Annex T

2 Type and variants

The tests and inspections carried out and described in this technical report have been selected in order to include the following variants and versions of the type and its equipments, as far as these are relevant for the topic of this report, into the judgement:

As stated in Annex MID (Manufacturer's Information Document):

None.

3 Remark

3.1 General

None.



ATE · EL
ALLIED TECHNOLOGY EXPERTS
ENTERPRISE OF LUXEMBOURG

Annex I1 Page 1

Technical Report No. 66AXA0003A
Type: DELUXE MAXXFAN LID

Compilation of Dossier No.: 66AXA0003

Extension 00

Technical Report no.: 66AXA0003A

page 1 and 2

Composition of Annex:

I1:	Index	page 1
GI1:	General Information	page 1 to 2
T:	General Test Report	page 1 to 3
MID:	Manufacturer's Information Document	page 1 to 3



General Information

Numbering according to annex 1 of the ECE Regulation No.43

- | | | |
|-----|---|--|
| 1. | Class of safety glazing material: | Rigid plastic panes |
| 2. | Description of the type of glazing: | Please refer to Annex 1 - Appendix 8 of ECE R43 |
| 3. | Trade names or marks: | MAXXAIR, AIRXCEL |
| 4. | Manufacturer's name and address: | AIRXCEL, INC.
3050 N.St. Francis Street,
Wichita KS 67219.
United States of America |
| 5. | If applicable, name and address of manufacturer's representative: | Not applicable |
| 6. | Submitted for approval on: | 06.09.2019 |
| 7. | Technical service responsible for conducting approval tests: | ATE EL s.à r.l.
14, op Huefdreich
L-6871 Wecker |
| 8. | Date of report issued by that service: | 11.10.2019 |
| 9. | Number of report issued by that service: | 66AXA0003A |
| 10. | | |
| 11. | Reason(s) for extension of approval: | Not applicable |
| 12. | Remarks: | None |
| 13. | | |
| 14. | | |
| 15. | | |
| 16. | | |



General Information

Annex 1 - Appendix 8

Rigid plastic panes

Principal and secondary characteristics in accordance with Annex 14 to Regulation No. 43

Principal characteristics

Chemical designation of the material:	Polycarbonate
The classification of the material by the manufacturer:	General PC material
Process of manufacture:	Injection molding process
Shape and dimensions:	Greatest developed area(curved): 586.2 mm*419.1 mm Greatest height of segment: 111.4 mm
Nominal thickness:	3 mm
Colouring of the rigid plastic material:	Variant 1: Gray tint, Variant 2: LightBlack(Smoke) (light transmittance less than 70 per cent)
Nature and type of surface coating:	Not applicable

Secondary characteristics

Conductors incorporated (yes/no):	Yes / No
Remark:	Only for sun roof



General Test Report

The data in this section refer only to the items submitted to testing or inspection.

0 Abstract

0.1 Type DELUXE MAXXFAN LID

1 Dates and resources

1.1 Date of receipt of test item 06.09.2019

1.2 Date of test 06.09.2019 - 30.09.2019

1.3 Place of test China Quality Certificate Center Huazhong Laboratory
No. 999, Gaoxin Avenue, East Lake Development Zone, Wuhan, Hubei, China

1.4 Testing site and testing equipment:

All measuring and test equipment used to carry out the inspections are in accordance with ISO 17025 and the regulatory act(s) applied.

2 Test object

The tests were conducted with a test sample which is representative of the component type to be approved.

The characteristics of the selected sample represent the worst case.

2.1 Description

Type:	DELUXE MAXXFAN LID
Class of safety-glass pane:	Rigid plastic panes
Nominal thickness:	3 mm
Vehicle category to be fitted:	M1, M2, M3

3 Tests and inspections

3.1 General requirements

The general requirements according to item 6.1. and 6.2. of the regulation are fulfilled.

3.2 Particular specifications

The tests and inspections have been carried out according to the requirements of item 7.10 of the Regulation and fulfill the requirements of the Regulation.



General Test Report

3.3 Test results

3.3.1 Flexibility test

Test manner is described in Annex 3, item 12.2. and Annex 14 item 3.3. of the regulation.

Sample: one test piece

All the conditions given in Annex 14, item 3. of the regulation are fulfilled.

Sample is considered satisfactory.

3.3.2 Headform test

Not applicable, According to Item 4.3.4. in Annex 14.

3.3.3 Mechanical strength test - 227 g ball test

Test manner is described in Annex 3, item 2.1. and Annex 14 item 5.3. of the regulation.

Sample: ten test pieces

All the conditions given in Annex 3, item 2.1.2. and Annex 14, item 5.3.2. of the regulation are fulfilled.

All samples are considered satisfactory.

3.3.4 Mechanical strength test - 227 g ball test at -18 °C ± 2 °C

Test manner is described in Annex 3, item 2.1. and Annex 14 item 5.3. of the regulation.

Sample: ten test pieces

All the conditions given in Annex 14, item 5.3.2. and item 5.5.2. of the regulation are fulfilled.

All samples are considered satisfactory.

3.3.5 Test of resistance to the environment

3.3.5.1 Test of resistance to abrasion

Not applicable, for sun roofs, no abrasion test is required.

3.3.5.2 Test of resistance to simulated weathering

Test manner is described in Annex 3, item 6.4. and Annex 14 item 6.2.1. of the regulation.

Sample: three test pieces

The light transmittance does not fall below 95 per cent of the pre-weathering value.

Bubbles or other defects are not formed.

All samples are considered satisfactory.

3.3.5.3 Cross-cut test

Not applicable, applies only if the glazing is to be used in a location requisite for driving visibility.



General Test Report

3.3.5.4 Resistance-to-humidity test

Test manner is described in Annex 3, item 7. and Annex 14 item 6.4.1. of the regulation.

Sample: ten test pieces

The requirements in Annex 14, item 6.4.3. and item 6.4.4. are fulfilled.

All samples are considered satisfactory.

3.3.6 Optical qualities

Not applicable, the requirements shall apply for products which are requisite for driver visibility.

3.3.7 Fire resistance test

Test manner is described in Annex 3, item 10. of the regulation.

Sample: five test pieces

The burning rate is less than 110 mm/min.

All samples are considered satisfactory.

3.3.8 Resistance to chemicals

Test manner is described in Annex 3, item 11. of the regulation.

Sample: four test pieces

The sample does not exhibit any softening, tackiness, crazing or apparent loss of transparency.

All samples are considered satisfactory.

AIRXCEL, INC.

Information doc. No.: 43.01-DELUXE MAXXFAN LID-00

TYPE: DELUXE MAXXFAN LID Application date: 11 October, 2019

Principal and secondary characteristics as defined in Annex 14 to Regulation No. 43

TECHNICAL DESCRIPTION		
1. Class of safety-glass pane	:	Rigid plastic panes
2. Description of glass pane	:	Maxxfan rigid plastic panes
3. Trade name	:	MAXXAIR, AIRXCEL
4. Name and address of manufacturer	:	AIRXCEL, INC. 3050 N.St. Francis Street, Wichita KS 67219, United States of America
4.1 Name and address of assembly plant	:	TAIZHOU PUAN LIGHTING TECHNOLOGY CO.,LTD. Build 1,2,4,5, No.#1111, East Section of Tiyuchang Road, Taizhou City, Zhejiang Province, China
5. Principal characteristics		
Shape category	:	Not applicable
Thickness category	:	I
Nominal thickness	:	3 mm
Nature and type of plastics coating(s)	:	Not applicable
Nominal thickness of plastics coating(s)	:	Not applicable
Category of vehicle for which the device is intended	:	M1, M2, M3
6. Secondary characteristics		
Nature of the material (plate, float, sheet glass)	:	Polycarbonate
Colouring of glass	:	Variant 1: Gray tint; Variant 2: LightBlack(Smoke)
Colouring of plastics coating(s)	:	Not applicable
Conductors incorporated (yes/no)	:	No
Opaque obscuration incorporated (yes/no)	:	Yes
Remark	:	None

Annex 1 - Appendix 8**Rigid plastic panes**

(Principal and secondary characteristics in accordance with Annex 14 to Regulation No. 43)

Approval No. Extension No.....

Principal characteristics:

Chemical designation of the material: Polycarbonate

The classification of the material by the manufacturer: General PC material

Process of manufacture:..... Injection molding process.....

Shape and dimensions: Greatest developed area(curved): 586.2 mm*419.1 mm
Greatest height of segment: 111.4mm

Nominal thickness:3mm.....

Colouring of the rigid plastic material:Variant 1: Gray tint;
Variant 2: LightBlack(Smoke)
(light transmittance less than 70 per cent)

Nature and type of surface coating:no.....

Secondary characteristics:

Conductors incorporated (yes/no):.....no.....

Remarks: Only for sun roof

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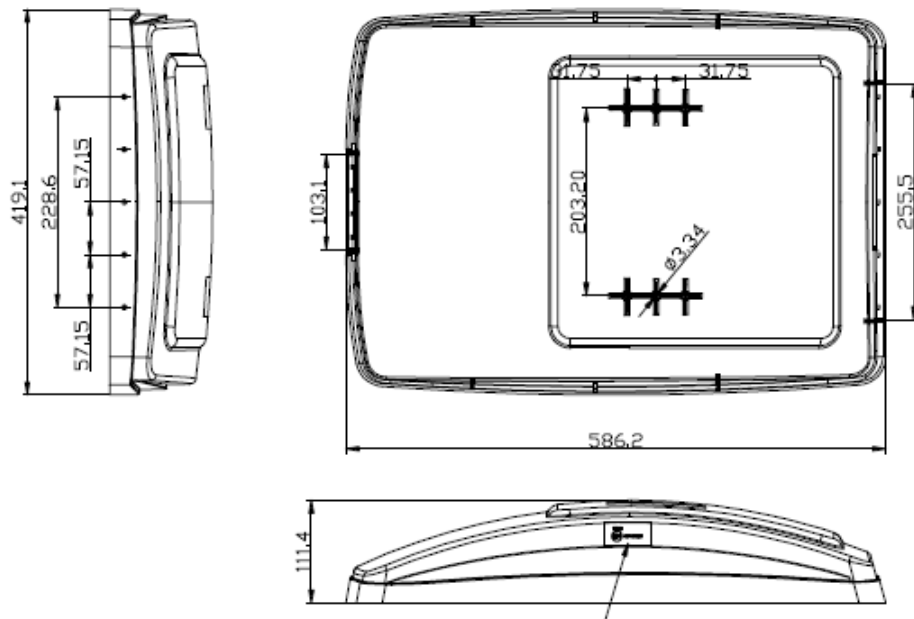
.....

Dimensional Drawing of the Rigid Plastic Panes

Dimensional Drawing of the Rigid Plastic Panes (VIII/C 3.0mm), diagrams as following:

Greatest developed area (curved): 586.2mm*419.1mm

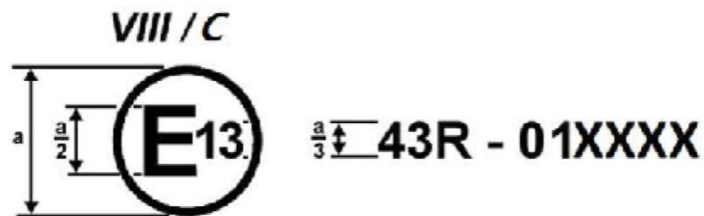
Greatest height of segment: 111.4mm



Approval Mark & Trade Name

Trade Name: MAXXAIR, AIRXCEL

Approval Mark:



a = 8mm min.

Approval mark