



Référence: e13*95/28*95/28*0042*00

Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Sandweiler, le 02 juillet 2008

Fiche de réception CEE EEC type-approval certificate

Communication concernant ⁽¹⁾: - **la réception**
Communication concerning the ⁽¹⁾: type-approval
- **l'extension de la réception**
extension of type approval
- **le refus de la réception**
refusal of type approval
- **le retrait de la réception**
withdrawal of type approval
d'un type de véhicule / composant / entité technique ⁽¹⁾ en visé par la directive 95/28/CEE.
of a type of vehicle / component / separate technical unit ⁽¹⁾ with regard to Directive 95/28/EEC.

Numéro de la réception:
Type-approval number: e13*95/28*95/28*0042*00

Raison de l'extension:
Reason for extension: not applicable

SECTION I SECTION I

- 0.1. Marque (de fabrication ou de commerce):**
Make (trade name of manufacturer): L'Isolante K-Flex S.r.l.
- 0.2. Type:**
Type: K-Flex ST
- Dénomination(s) commerciale(s):**
Commercial description(s): not applicable
- 0.3. Moyen d'identification du type s'il est marqué sur le véhicule / le composant / l'entité technique ^{(1) (2)}:**
Means of identification of type if marked on the vehicle / component / separate technical unit ^{(1) (2)}: ink print
- 0.3.1. Emplacement de ce marquage:**
Location of that marking: on pipes and sheets

- 0.4. Catégorie du véhicule ⁽³⁾:**
Category of vehicle ⁽³⁾: not applicable
- 0.5. Nom et adresse du constructeur:**
Name and address of manufacturer: L'Isolante K-Flex S.r.l.
via Don Locatelli, 35
I-20040 Roncello (MI)
- 0.7. Dans le cas de composants et d'entités techniques, emplacement et mode de fixation du marquage de réception CEE:**
In the case of components and separate technical units, location and method of affixing of the EEC type-approval mark: ink print on pipes and sheets
- 0.8. Adresse(s) (des) de l'usine(s) de montage:**
Address(es) of assembly plant(s): L'Isolante K-Flex S.r.l.
via Don Locatelli, 35
I-20040 Roncello (MI)

SECTION II SECTION II

- 1. Renseignements complémentaires éventuels:**
Additional information (where applicable): see Addendum
- 2. Autorité déléguée:**
Assigned authority: *Société Nationale de Certification et d'Homologation
L-5201 Sandweiler*
- Service technique chargé de procéder aux essais:**
Technical service responsible for carrying out the tests: Luxcontrol SA
B.P. 349
L-4004 Esch-sur-Alzette
- 3. Date du rapport d'essai:**
Date of test report: 18.06.2008
- 4. Numéro du rapport d'essai:**
Number of test report: LCA 54 0687 002 08
- 5. Remarques éventuelles:**
Remarks (if any): see Addendum

6. **Lieu:**
Place: Sandweiler
7. **Date:**
Date: 02 juillet 2008
8. **Signature:**
Signature:

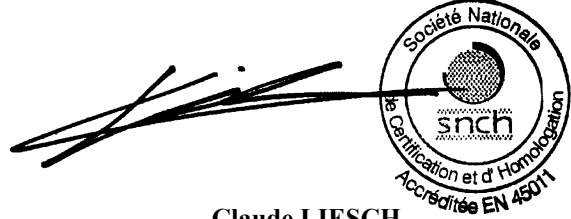
Pour le Ministre des Transports



Handwritten signature of Marco FELTES.

Marco FELTES
Inspecteur Principal

Pour la SNCH



Claude LIESCH
Conseiller de Direction

9. **Un index de l'ensemble des renseignements communiqués à l'autorité compétente ayant accordé la réception, et pouvant être obtenus sur demande, est joint en annexe:**

The index to the information package lodged with the approval authority, which may be obtained on request, is attached:

see index to type-approval report

Addendum

Addendum

à la fiche de réception CEE N° e13*95/28*95/28*0042*00 concernant la réception de matériaux intérieurs visés par la directive 95/28/CEE modifiée en dernier lieu par la directive 95/28/CEE
to EEC type-approval certificate N° e13*95/28*95/28*0042*00 concerning the type-approval of interior materials with regard to Directive 95/28/EEC as last amended by Directive 95/28/EEC

1. RENSEIGNEMENTS COMPLEMENTAIRES

ADDITIONAL INFORMATION:

1.1. Le matériau convient pour l'installation:

Material is suitable for installation:

- ~~en tant que garniture du toit~~ ⁽¹⁾
as roof lining ⁽¹⁾
- ~~en tant que revêtement des parois arrière ou latérales~~ ⁽¹⁾
as rear or side wall lining ⁽¹⁾
- ~~en tant que revêtement du plancher~~ ⁽¹⁾
as floor covering ⁽¹⁾
- ~~en tant que capitonnage~~ ⁽⁴⁾ ~~ou couverture~~ ⁽¹⁾
~~des sièges~~
as seat upholstery ⁽⁴⁾ or covering ⁽¹⁾
- ~~en tant que conduit de chauffage et de ventilation~~ ⁽¹⁾
as heating and ventilation pipe ⁽¹⁾
- ~~en tant que porte-bagages~~ ⁽¹⁾
as luggage rack ⁽¹⁾
- ~~pour un autre (d'autres usage(s))~~
(veuillez préciser):
for other purpose(s) (please specify):

tubular pipes or sheet of expanded foam

~~Les composants formant des dispositifs complets (sièges, cloisons, porte-bagages, etc. ⁽⁴⁾) peuvent être installés dans les véhicules des catégories M₂/M₃~~ ⁽¹⁾

Components as complete devices (seats, separation walls, luggage racks, etc. ⁽⁴⁾) are suitable for installation in M₂/M₃ vehicles ⁽¹⁾.

1.2. Le respect des exigences en matière de vitesse de combustion a été vérifié pour la direction horizontale (←→) / verticale (↑↓) / pour les directions horizontale et verticale (←↑↓→) ⁽¹⁾:

Compliance with the burning rate requirements has been checked in the horizontal direction (←→) / in the vertical direction (↑↓) / both horizontal and vertical direction(s) (←↑↓→) ⁽¹⁾

horizontal direction (←→)

La conformité des composants, eu égard à la vitesse de fusion, a été vérifiée conformément à l'annexe V (symbole V):

Compliance with the melting rate has been checked for components according Annex V (symbol v):

yes

La conformité des composants formant des dispositifs complets a été vérifiée (symbole CD):

Compliance has been checked for components approved as complete devices (symbol CD):

not applicable

- 1.3. Le cas échéant, restrictions d'utilisation et prescriptions pour l'installation:**
Any restrictions of use and installation requirements: see item 1.1.
- 5. Remarques:**
Remarks: not applicable

¹⁾ **Biffer les mentions inutiles**

Delete where not applicable

²⁾ **Si le moyen d'identification du type contient des caractères n'intéressant pas la description des types de véhicules, de composants ou d'entités techniques couverts par la présente fiche de réception, il convient de remplacer ici ces caractères par le symbole <?> (par exemple ABC??123??)**

If the means of identification of type contains characters not relevant to a description of the vehicle, component or separate technical unit types covered by this certificate, such characters are to be represented in the documentation by the symbol "?" (e.g. ABC ??123??)

³⁾ **Selon la définition donnée à l'annexe II section A de la directive 70/156/CEE**

As defined in Annex IIA to directive 70/156/EEC



Référence: e13*95/28*95/28*0042*00

Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Sandweiler, le 02 juillet 2008

Index du dossier de réception

Index to type-approval

	Numéro de réception: Approval number:	e13*95/28*95/28*0042*00
	Révision: Revision:	00
	Marque de fabrique ou de commerce: <i>Trade name or mark:</i>	<i>L'Isolante K-Flex S.r.l.</i>
	Type: <i>Type:</i>	<i>K-Flex ST</i>
1.	Procès-verbal d'essai: Test report:	N° LCA 54 0687 002 08
	- Technical report:	Pages 1 to 6;
	- Index to information package:	Annex A - Page 1.
2.	Dossier du constructeur: Report of the manufacturer:	Annex B
	- Information folder:	refer to Annex A, Page 1 of technical report.
3.	Autres documents annexés: Other documents annexed:	not applicable
4.	Date de délivrance de la réception initiale: Date of issue of initial type approval:	02.07.2008
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 fiche de réception révisée: Date of last extension:	not applicable

TECHNICAL REPORT

No.: LCA 54 0687 002 08

Inspection concerning the
**burning behaviour of materials used in the
interior construction of certain categories
of motor vehicles**

performed according to the Directive of the Council of the European Communities

No. 95/28/EC

Vehicle type: **K-Flex ST**
Manufacturer: **L'Isolante K-Flex S.r.l.**
via Don Locatelli, 35
I – 20040 Roncello (MI)

Extension -- to EC Type Approval no.: --

Index:

1.	GENERAL	2
2.	INSPECTIONS AND THEIR RESULTS	4
3.	EVALUATION OF TEST RESULTS	5
4.	STATEMENT OF COMPLIANCE	6
5.	ANNEX (BEGINNING WITH AN INDEX)	

...



1. General

1.1. Test Provisions

The inspection was carried out according to the requirements of the Council Directive of the European Communities 95/28/EC of October 24th, 1995 including all amendments up to --- of ---.

1.2. Information concerning the vehicle type and the requested approval

The statements below apply to the previous EC type-approval as referred to on page 1.

1.2.1. () Numbering according to the EC type-approval certificate following 95/28/EC – Section I

(0.1.) Make (trade name of manufacturer):

l'isolante K-Flex S.r.l.

(0.2.) Type and commercial description(s):

Type: **K-Flex ST**

Commercial description: --

(0.3.) Means of identification of type (if marked on the vehicle / component / separate technical unit):

Ink print

(0.3.1.) Location of that marking:

on pipes and sheets

(0.4.) Category of vehicle:

not applicable

(0.5.) Name and address of the manufacturer:

l'isolante K-Flex S.r.l.

via Don Locatelli, 35

I – 20040 Roncello (MI)

...



- (0.7.) In the case of components and technical units, location and method of affixing of the EEC approval mark:
ink print on pipes and sheets
- (0.8.) Address(es) of assembly plant(s):
**l'isolante K-Flex S.r.l.
via Don Locatelli, 35
I – 20040 Roncello (MI)**
- 1.2.2. () Numbering according to the EC type-approval certificate following 95/28/EC – Section II
- (1.) Additional information (where applicable):
- (1.1.) Material is suitable for installation as:
~~— roof lining~~
- **rear or side wall lining**
~~— floor covering~~
~~— seat upholstery or covering~~
- **heating and ventilation pipe**
~~— luggage rack~~
- **other purposes: tubular pipes or sheet of expanded foam**
Components as complete devices (seats, separation wall, luggage rack, etc.) are suitable for installation in M2/M3 vehicles.
- (1.2.) Compliance with the burning rate requirements has been checked in the:
horizontal direction
~~vertical direction~~
~~both horizontal and vertical directions~~
Compliance with the melting rate has been checked for components:
according Annex V, symbol V – not applicable
Compliance has been checked for components approved as complete devices:
~~symbol CD – not applicable~~
- (1.3.) Any restrictions of use and installation requirements:
see item (1.1.)
- (5.) Remarks:
not applicable
- ...



2. Inspections and their results

2.1. Version of the tested vehicle/item

Following variant has been used for testing (if not stated in part 1.2.2. of this report):

area density: 50 kg/m³

thickness: 13 mm

2.2. Inspection items

	Inspector	Location of test:	Date of receipt of test item:	Date of test:
Main:	D. Durazzi	CSI I-20021 Bollate (MI)	27.02.2008	18.03.2008

2.2.1. Test to determine the horizontal burning rate of materials

The test were performed according to annex IV of the directive.

2.2.1.1. Test results:

Sampling:

Specimen supplied by the customer,

Conditioning:

24h, 23°C±2°C, 50%±5% relative humidity

per annex IV test method

Specimen #	Combustion length [mm]	Combustion time [s]	Combustion speed [mm/min]	Limit value [mm/min]
1	0	0	--	100
2	0	0	--	100
3	0	0	--	100
4	0	0	--	100
5	0	0	--	100

The material did not ignite.

2.2.2. Test to determine the melting behaviour of materials

Annex V

Specimen #	Flaming/ non flaming drops	Cotton ignition [yes / no (passed)]
1	Non flaming drops	no
2	Non flaming drops	no
3	Non flaming drops	no
4	Non flaming drops	no

...



2.2.3. Test to determine the vertical burning rate of materials

No tests according to annex VI of the directive was performed, as the material is not intended to be used as curtains, blinds and/or other hanging materials.

2.3. Remarks

- **Inspection items are only applicable to items which have been tested**

2.4. Test facilities

Calibration of measuring and test equipment used to carry out the inspections is in accordance with the EEC-Directive and/or ECE-Regulation stated in 1.1. of this report and with ISO 17025.

3. Evaluation of test results

3.1. Variants and equipment covered

The tests carried out cover the following vehicle variations and equipment as far as these are relevant for burning behaviour of materials:

- **shape and dimension ranges as stated in the information document**

3.2. Remarks

3.2.1. Main report:

not applicable.



4. Statement of compliance

The inspections and measurements carried out have shown the compliance of the vehicle type described in this report and the attached Annex with the requirements according to the Council Directive of the European Communities 95/28/EC of October 24th, 1995 including all amendments up to --- of ---

Esch-sur-Alzette, June 18, 2008

Luxcontrol s.a.
Service Homologation-automobile

David Durazzi
Ingénieur-Inspecteur

Angelo Tomasini
Ingénieur-Inspecteur

Annex



Index to the information package, including a summary in chronological order, concerning extensions and/or amendments

EC type-approval No.: --

Main Report

Technical Report No.: LCA 54 0687 002 08 Page 1 to 6

Composition of the Annex:

A: Index Page 1
B: Information folder Page 1 to 4

Index to the information folder:

- manufacturer's information document (page 1)
 - technical datasheet (page 2)
 - pictures of the lining and of its markings (page 3 and 4)
-



K-FLEX

INFORMATION DOCUMENT No. ST/1

Refuting to EEC component type-approval of interior automotive and relevant reaction to fire (Directive 95/28/CE All. IV)

Information stated as per Appendix 2 of the Directive 95/28/CE.

0. GENERAL

0.1	Make:	K-Flex
0.2	Type and general commercial description:	K-Flex ST
0.5	Name and address of manufacturer:	L'Isolante K-Flex Srl Via Don Locatelli, 35 20040 Roncello (Mi) Italy
0.7	Location and method of affixing:	label over carton box Ink print on pipes and sheets
0.8	Address plant:	Via Don Locatelli, 35 20040 Roncello (Mi) Italy

1. INTERIOR MATERIALS

1.1	Material(s) used for the interior lining of the roof:	N.A.
1.2	Material(s) used for the rear and side walls:	sheets of expanded foam
1.2.1	Elastomeric foam	
1.2.2	1 single material:	1 layer
1.2.3	Type of coating:	none
1.2.4	Maximum / minimum thickness: mm	60 – 6
1.2.5	Type approval Number:	e13 0042 (V)
1.3	Material(s) used for the floor:	N.A.
1.4	Material(s) used for the upholstery of the seats:	N.A.
1.5	Material(s) used for heating and ventilation pipes:	tabular pipe of expanded foam
1.5.1	1 single materiale:	1 layer
1.5.2	Type of coating:	none
1.5.3	Maximum / minimum thickness: mm	60 – 6
1.5.4	Type approval Number:	e13 0042 (V)
1.6	Material(s) used for luggage racks:	N.A.
1.7	Material(s) used for other pur pose(s):	sheets of expanded foam
1.7.1	Intended purpose:	thermal and sound insulation of automotive interiors
1.7.3	1 single material:	1 layer
1.7.4	Type of coating:	none
1.7.5	Maximum / minimum thickness: mm	60 – 6
1.7.6	Type approval number:	e13 0042 (V)

L'ISOLANTE K-FLEX srl - via Don Locatelli, 35 - 20040 Roncello MI - Italy
tel.: +39.039.6824.1 (r.a.) - fax: -39.039.6824560
www.kflex.com - e-mail: italsales@isolante.com - international@isolante.com

Cap. Soc. € 15.000.000 L.t.
Codice fiscale 09470180150 - Part. IVA 02423640966 - Part. IVA Intercomunitaria: IT 02423640966
Reg. Imp. di Milano n. MI 09470180150 - Cod. Meccanografico n. M1029377 - R.E.A. 1298276

SCHEMA TECNICA



L'ISOLANTE K-FLEX

SISTEMA DI GESTIONE
QUALITÀ
UNI EN ISO 9001:2000
CERTIFICATO DA CERTIQUALITY

K-FLEX ST

CLIMATIZZAZIONE - REFRIGERAZIONE - PROCESSI INDUSTRIALI

Caratteristiche

Descrizione del materiale	Elastomero estruso espanso senza impiego di CFC ed a struttura cellulare chiusa.
Aspetto	Colore nero e superficie a vista liscia.
Tipologie di produzione	Tubi di lunghezza standard 2 m negli spessori 6, 9, 13, 19, 25, 32, 40, 50, 60 mm nei diametri da 6 a 160 mm, disponibili anche nelle versioni di spessori conformi alle categorie A,B,C della legge 10/91 fino a Ø 114. Tubi pretagliati lunghezza 2 m a chiusura con nastro autoadesivo anticondensa spessore 2 mm, negli spessori 9, 13, 19 mm nei diametri da 12 a 89 mm. Nelle versioni COLOR e COLOR UV tubi di lunghezza 1 m, anche pretagliati. Lastre negli spessori 6, 10, 13, 16, 19, 25, 32, 40, 50, 60 mm. Altezza dei rotoli 1 / 1,5 m con o senza adesivizzazione. Lastre nelle misure standard anche in versione ALU / ALU UV e COLOR / COLOR UV.
Campi applicativi	Isolamento termico degli impianti di refrigerazione, climatizzazione, processi industriali.

Dati tecnici

Limiti d'impiego	-200 °C max +105 °C**	Resistenza a funghi e parassiti	Eccellente
Conducibilità termica λ W/(m·k) EN 12667 (DIN 52612) EN ISO 8497 (DIN 52613)	-20 °C = 0,034	Resistenza agli agenti atmosferici	Eccellente
	0 °C = 0,036*		
Conducibilità termica λ W/(m·k) EN 12667 (DIN 52612) EN ISO 8497 (DIN 52613)	+20 °C = 0,038	Riduzione del rumore	Max 35dB (A)
	+40 °C = 0,040	Odore	Neutro
Permeabilità (μ) EN 12086 (DIN 52615)	> 7000	Schallabsorption nach EN ISO 11654	Absorberklasse D
Coefficiente della resistenza alla diffusione del vapore (23 °C) EN 12086 (DIN 52615, BS 4370) EN ISO 12572	δ $1 \cdot 10^{-10} \frac{\text{Kg}}{\text{m} \cdot \text{h} \cdot \text{Pa}}$; $0,09 \frac{\mu\text{g} \cdot \text{m}}{\text{N} \cdot \text{h}}$	Fuoco	CL.1 (I)* Brandkennziffer 5-2 (CH) B1 DIN 4102 (D)* (ABP-P3346-1021-MPA BS) DIN 4102 Teil 11 (Wand- und Dechendurchführung) MI-NF (F)* PII NIT 036 (SK)* B1 ÖNORM B38000 (A) BS 476 Part 6 1989 CL.0 (UK)
Problematiche di corrosione	DIN 1988/7*; pH neutro		
Dati ecologici	No difenilossido No HFCKW - FCKW No formaldeide - Cd		
Celle chiuse	>95%		
Resistenza all'ozono	Eccellente		
Resistenza all'olio	Eccellente		

* Supervisione da Istituto esterno.

** Per applicazioni inferiori a -150 °C contattare
il nostro Ufficio tecnico.

L'ISOLANTE K-FLEX si riserva la possibilità di variare dati e requisiti tecnici senza alcun preavviso.



L'ISOLANTE K-FLEX

via Don Locatelli, 35 - 20040 Roncello (MI) Italy

tel.: +39 039 68241 - fax: +39 039 6824560

www.kflex.com

e-mail: international@isolante.com - italsales@isolante.com

APPENDIX 1

. Type approval number printed on production pipe



. Type approval number printed on product label

K-FLEX ST 		μ Certificato Valori come da nostra documentazione tecnica	
<small>Spessore nom. / Epaisseur nom. Nom. Thickness / Espesor nom.</small>	<small>Diam. tubo / Diam. ext. Diam. pipe / Diam tube</small>	<small>M.cartone / M.carton M.box / m. caja</small>	<small>MC</small>
9	22	136	
		<small>Thickness</small>	<small>Internal ID</small>
		3/8"	7/8"
F 		Made in E.C. 	U.K. cl. Ø 
<small>8 0 2 7 4 0 9 1 3 1 8 2 3</small>		<small>0062 08</small>	Classe 1 DM 26/06/84
		E M1 	NF 01 
09022005508 13612345611		<small>T0008 autcm.lib1</small>	

APPENDIX 2

1. How the product is sold: tubular pipe

Tubi lunghezza 2 m



2. How the product is sold: sheet

