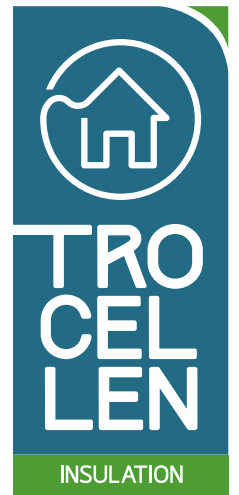


# TROCELLEN ROLLS

Insulation of technical installations



Thermal insulation



# ROLLS

**TROCELLEN** is a closed cell, chemically cross-linked polyolefin foam (a group which includes PE, PP, copolymers, EVA, etc.).

Available versions:

## TROCELLEN N

Dark grey, does not contain flame retardants. Over 7 mm thickness conforms to the USA -FMVSS 302 and German DIN 75200 standard of flame containment at less than 100mm/min

## TROCELLEN NP

N type, laminated with scratch resistant embossed metallic polyethylene film

## TROCELLEN AL

N type, laminated with scratch resistant embossed black polyethylene film

## TROCELLEN AL REF

N type, laminated with a metallic polyester film

## TROCELLEN CL1

Light grey in colour, produced with flame retardant additives to make it conform to the standards for the category, for example TROCELLEN CL 1 - Italy, M1 France, etc.

## TROCELLEN AL/CL1

CL1 type, with embossed, scratch resistant metallic PE film

## TROCELLEN AL/CL1 REF

CL1 type, with embossed, scratch resistant metallic PET film

## TROCELLEN CL1 ALU

CL1 type, with 50 µm smooth or embossed aluminium

## TROCELLEN CLASS OEM (not CE marked)

Euroclass B-s2,d0 for thickness 3-12 mm, adhesive, according to EN 13501-1, light green



## TROCELLEN ROLLS (height 1,50 m)

THICKNESS m	TYPES N, NP, AL, AL REF		TYPES CL1, AL/CL1, CL1 REF, CL1 ALU		TYPE CLASS OEM (NOT CE MARKED)	
	MULTIPLE OF m <sup>2</sup>	AVAILABLE SIZE m <sup>2</sup>	MULTIPLE OF m <sup>2</sup>	AVAILABLE SIZE m <sup>2</sup>	MULTIPLE OF m <sup>2</sup>	AVAILABLE SIZE m <sup>2</sup>
03	450	75	600	300/75	600	75
05	300	75	-	-	-	-
06	225	75	300	75	300	75
08	150	75	225	75	225	75
10	120	60	180	60	180	60
12	135	45	135	45	135	45
15	90	45	90	45	-	-
20	120	60/30	180	30	-	-
24	135	22,5	135	22,5	-	-
30	120	30	180	30/2,96	-	-

## APPLICATIONS

The following are used to fit the rolls:

### “AD” TYPE ROLLS (ADHESIVE)

- The rolls are available with self-adhesive for thicknesses of 3-6-8-10 and 12 mm.
- For thicknesses of 16-20-24-30 mm consult the technical office in the production plant.

For hot air heating systems where temperatures may reach 60 - 80 °C we advise to use **MATIBLOCK®** glue which should be spread on the sheet (object to be installed) and the duct.

## USES

The most common uses are:

- Insulation of airduct and hot and cold water storage tanks
- Insulation of large diameter pipes
- Adhesive seals

### TECHNICAL DATA

TECHNICAL CHARACTERISTICS	NORM	UNIT	TROCELLEN N	TROCELLEN CL1	TROCELLEN AL/CL1	TROCELLEN CL1/ALU	TROCELLEN CLASS OEM (NOT CE MARKED)
Reaction to fire	UNI 8457 UNI 9174 EN 13501-1	-	-	Classe 1	Classe 1	Classe 1	Euroclass B-s2,d0 BL-s1,d0 for thickness 3-12 mm
Thermal conductivity coefficient at 0 °C (λ-value)	EN 12667	W/mK kcal/mh°C	0,0345 0,0297	0,0345 0,0297	0,0345 0,0297	0,0345 0,0297	0,0360 0,0309
Thermal conductivity coefficient at 40 °C (λ-value)	EN 12667	W/mK kcal/mh°C	0,0400 0,0344	0,0400 0,0344	0,0400 0,0344	0,0400 0,0344	0,0450 0,0387
Water vapour diffusion factor (μ-value)	EN 12086 EN ISO 12572	-	≥ 2000	≥ 2000	≥ 12000	≥ 65000	≥ 1000 (1270)
Density	EN ISO 845	kg/m³	30	30	30	30	28
Thickness	EN ISO 1923	mm	from 3 to 30 (See base spec.)	from 3 to 30 (See base spec.)	from 3 to 30 (See base spec.)	from 3 to 30 (See base spec.)	from 3 to 12 (See base spec.)
Colour	BASE spec.	-	grey anthracite	light grey	light grey	light grey	light green / grey anthracite
Compression stress at 10%	EN ISO 3386/1	kPa	24	15	18,6	18,6	12
Water absorption after 28 days	ISO 2896	Vol.%	<3	<3	<3	<3	<3
Dimensional stability (< 5%)	ISO 2796	°C	100	100	100	100	90
Maximum operative temperature range		°C	-80÷ +100	-80÷ +100	-80÷ +100	-80÷ +100	-80÷ +90
Maximum operative temperature range with mechanical stress		°C	-40÷ +100	-40÷ +100	-40÷ +100	-40÷ +100	-40÷ +90

# SEALS - TAPES - STRIPS - GLUE

## TROCELLEN SEALS, THICKNESS 3-6 mm

These seals should be used to join metal elements (duct flanges, the edges of refrigeration cell doors and ventilation vents) to guarantee hermetic sealing and vibration damping.  
Acrylic self-adhesive.

Range:

- thickness 3-6 mm, types N and CL1

## EPDM SEALS

The material used for this type of sealant is EPDM/other polyolefin resin foam, offering superior compressive strength and excellent spring.

Range:

- thickness 3-4-5 mm

## AL/CL1, AL/CL1 HR TAPES AND ALUMINIUM TAPES (adhesive)

To guarantee a good aesthetic finishing, the product range also contains a series of AL/CL1 and AL/CL1 HR tapes (50 mm wide, <1 mm thick, 25 mm long), protected by siliconized paper or siliconized PE film.

Aluminium tapes:

- thickness 50 µm, types embossed, smooth, self-adhesive (smooth or embossed), Duplex (with polyester film, improved tensile strength and adhesiveness).

## TROCELLEN CLASS STRIPS

Suitable for the technical and aesthetic finishing of the insulation, they can be used for sections of piping where it is difficult to apply insulating sleeves and for joints between insulation sleeves and sheets which must be first glued with **MATIBLOCK®** glue.

Range:

- thickness 3 mm, types Trocellen CLASS adhesive plain and TROCELLEN CLASS ALU adhesive

Other types available: AL, CL1, AL/CL1, AL/CL1 HR, CL1 ALU/L, rubber.

## MATIBLOCK® GLUE

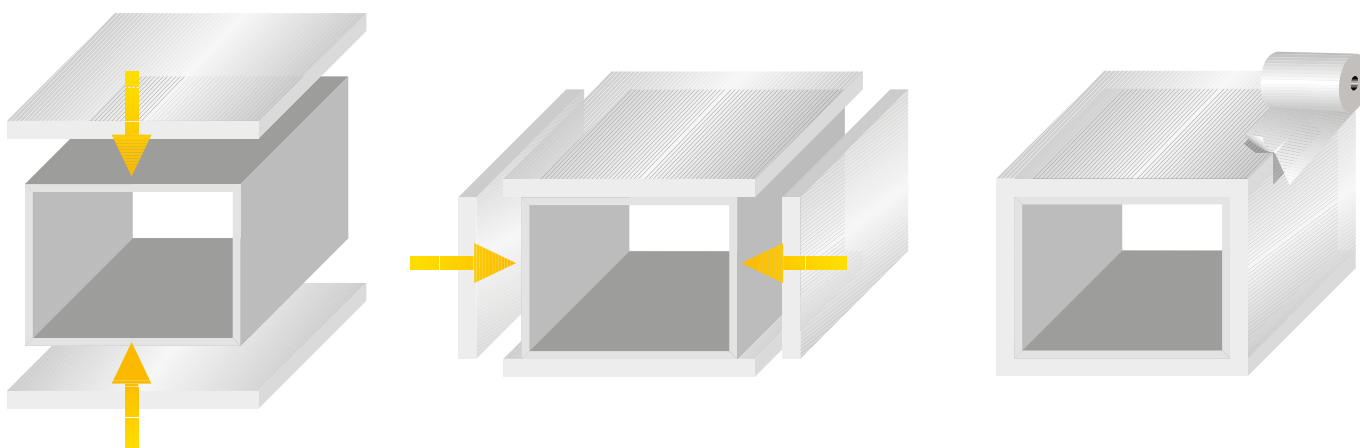
Special solvent-based glue used to ensure resistance up to 120 °C as an alternative to the self-adhesive range of products.



## STORING THE ADHESIVE ROLLS AND MATIBLOCK® GLUE

To guarantee correct storage of the adhesive rolls, you must follow the recommendations below:

- The ideal storage temperature should always be kept within 10 °C and - 25 °C. Adhesives are sensitive to jumps in temperature and may lose their adhesive properties (too hot) or become brittle (too cold), leading to the risk of peeling-off after installation
- For no reason whatsoever should the adhesive rolls be stored outdoors: humidity, water and sun will seriously alter the behaviour of the adhesion
- Avoid storing the rolls near windows and doors, where at all possible, for the above reasons
- The rolls should not be stored for more than a period of storage 60 days in warm weather (spring and summer) or 30 days in cold weather (autumn and winter) before use
- The rolls may, however, be exposed to higher or lower temperatures for brief periods (a few hours): this should not create problems, provided the exposure is proportional to the temperature limits and, in any case, the temperatures during actual installation must not fall outside of 2 °C - 35 °C
- MATIBLOCK® glue: Properly sealed in a warehouse it can last 12 months in the well-closed original packaging, in a ventilated environment, avoiding direct exposure to heat sources.



**Installation diagram:** seal edges and joints with suitable adhesive tape.

# ITEM SPECIFICATIONS

## TROCELLEN CL1 ROLLS

Chemically cross-linked, closed cell polyethylene rolls, density 30 kg/m<sup>3</sup>, anthracite grey, Class 1.

- Thermal conductivity coefficient at 40 °C ( $\lambda$ -value)= 0,040 W/mK (0,034 kcal/mh°C)
- Water vapour diffusion factor ( $\mu$ -value)  $\geq$  2000
- CFC free.

## TROCELLEN AL/CL1 ROLLS

Chemically cross-linked, closed cell polyethylene rolls, density 30 kg/m<sup>3</sup>, light grey, Class 1, laminated with protective embossed metallic film.

- Thermal conductivity coefficient at 40 °C ( $\lambda$ -value)= 0,040 W/mK (0,034 kcal/mh°C)
- Water vapour diffusion factor ( $\mu$ -value)  $\geq$  12000
- CFC free.

## TROCELLEN CL1/ALU ROLLS

Chemically cross-linked, closed cell polyethylene rolls, density 30 kg/m<sup>3</sup>, light grey, Class 1, with protective 50  $\mu$ m smooth or embossed aluminium laminate.

- Thermal conductivity coefficient at 40 °C ( $\lambda$ -value)= 0,040 W/mK (0,034 kcal/mh°C)
- Water vapour diffusion factor ( $\mu$ -value)  $\geq$  65000
- CFC free.

## TROCELLEN CLASS OEM ROLLS

Chemically cross-linked, closed cell polyethylene rolls, density 28 kg/m<sup>3</sup>, light green, adhesive.

- Euroclass B-s2,d0 – BL-s1,d0 for thickness 3-12 mm
- Classified F1, toxicity and opacity of fumes in case of fire, according to NF F 16-101
- Thermal conductivity coefficient at 10 °C ( $\lambda$ -value)= 0,038 W/mK (0,033 kcal/mh°C)
- Water vapour diffusion factor ( $\mu$ -value)  $\geq$  1000

TROCELLEN CL1  
ALU SMOOTH



TROCELLEN CL1  
ALU SMOOTH





# INTERNATIONAL LOCATIONS

Lead Plant

## TROCELLEN Italia S.p.A.

Sales office  
Via Dante, 3  
20867 Caponago (MB), Italy  
Ph. +39 02 959 621  
Fax +39 02 959 62 235

## Polifoam Plastic Processing Co. Ltd

Táblás u. 32  
1097 Budapest, Hungary  
Ph. +36 1 347 98 00  
Fax +36 1 280 67 08

## TROCELLEN GmbH

Mülheimer Straße 26  
53840 Troisdorf, Germany  
Ph. +49 2241 2549000  
Fax +49 2241 2549099

## TROCELLEN S.E.A. Sdn Bhd

Lot 2213, Kg. Batu 9 Kebun Baru, Jalan Kasawari  
42500 Telok Panglima Garang Selangor Darul Ehsan, Malaysia  
Ph. +60 3 3122 1213  
Fax +60 3 3122 1211

## TROCELLEN Ibérica S.A.

C/Avila, s/n  
28804 Alcalá de Henares, Spain  
Ph. +34 91 885 55 00  
Fax +34 91 885 55 01

## TROCELLEN France

Bureau de vente  
2 rue de Commères,  
Immeuble les Peupliers  
F-78310 Coignères, France  
Ph. +33 (0) 130 85 93 40

[insulation@trocellen.com](mailto:insulation@trocellen.com)

## TROCELLEN\*

Trocellen is a multinational company owned by Furukawa Electric Co. Ltd, internationally renowned for the design and manufacture of cross-linked polyolefin foam.

Through its different Business Units, the company is able to meet the specific needs of the market with a wide range of products and solutions.

It manufactures both semi-finished and finished products. The Trocellen products stand out for their manufacturing processes and the many industrial sectors in which they can be used: Insulation, automotive, footwear, sport and leisure, adhesive tapes and packaging. Trocellen makes safety a lifestyle and turns safety into a lifestyle.

### Insulation Business Unit

The Insulation Business Unit mainly specialises in Sound and Thermal insulation for the building industry. The goal is to create comfortable environments for people or rather to "help people live better!".

\*Trocellen is the member of Furukawa Group.



FOLLOW US  
ON TWITTER



CONTACT US  
ON LINKEDIN



[www.trocellen.com](http://www.trocellen.com)

Download Trocellen App  
from the Official Website

