



GARGIULO

PROFILE TECHNOLOGY WITH SYSTEM



INSULATION

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INTELLIGENT PROFILE TECHNOLOGY
FOR IMPROVED INSULATION VALUES





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We have helped to shape the development of thermal partitions for aluminium windows and façade systems from the very beginning. "INSULATON" is therefore very close to our hearts.

We use high-end extrusion technologies that we have developed ourselves, whereby we provide for all geometries and profiles with extremely tight tolerances so that our profiles work together reliably.

Our thermal partitions made from polyamide (PA) or low conductivity polyamide (LC-PA) with glass fibre reinforcement or from modified ABS are mainly responsible for reducing the heat transfer coefficient (U-value) so that higher insulation values can be achieved in thermally insulated aluminium systems.

	LC-PA	ABS	PA 6.6 GF 25
Lambda value [W/(mk)]	0.24	0.14	0.3
Paintability	++	-	++
Powder coating	++	-	++
Rigidity	+	+	++
Recyclability	++	++	++
Foam combination	++	++	++

- = not suitable

+ = well suited

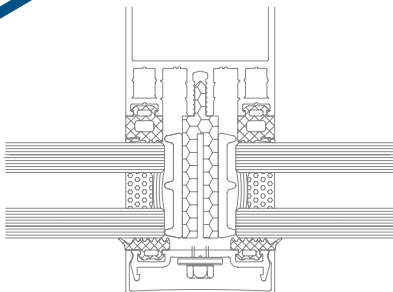
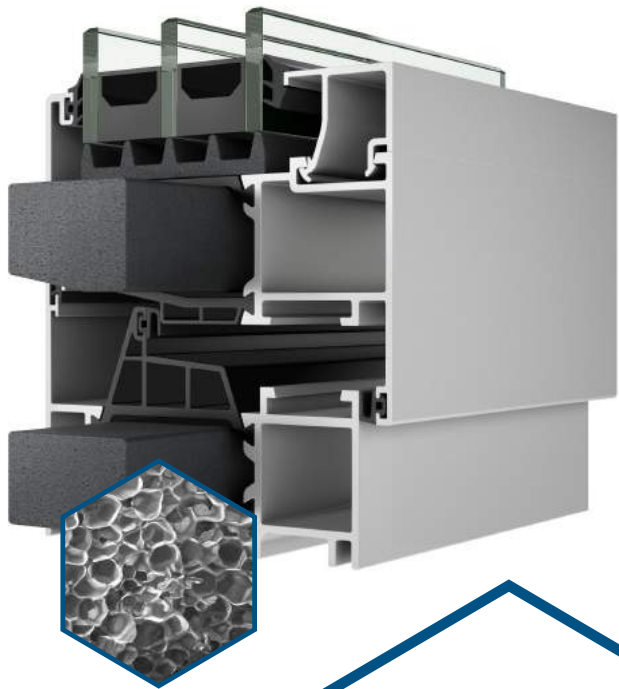
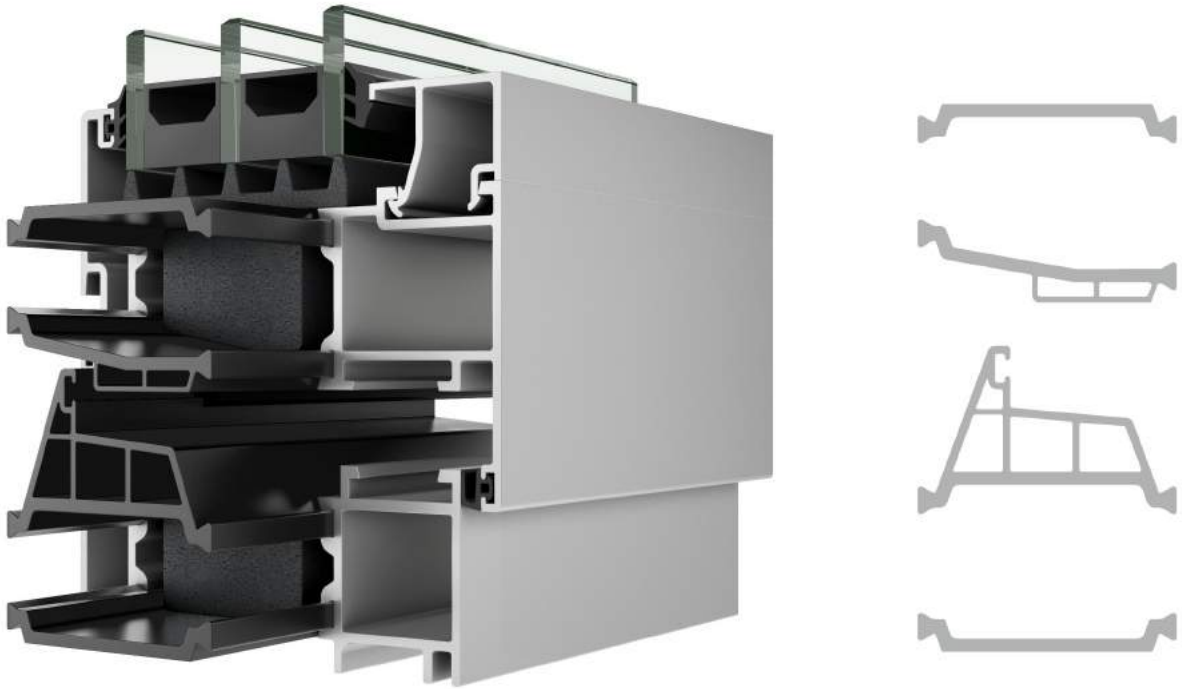
++ = very well suited

In addition, we further improve the U-values of aluminium composite systems by adding our own insulating foams to the thermal partitions. This results in intelligent material combinations.

Our closed-cell insulating foams offer you the opportunity to further improve your products as a result of the different qualities.

You are not limited in terms of design with the insulating foams because of our patented cutting process. We are also happy to take on your assembly work, such as cut-outs, blanks or self-adhesive finishes.

We can also produce halogen-free, organic-based and high temperature resistant insulating foams. As well as foams to your specific requirements.




INSULATING FOAMS

A VARIETY OF SHAPES

- Our patented process permits undercuts and complex geometries
- Solid, round and tubular material
- Metal foil lamination to provide reflection, thus improving the heat transfer coefficient
- Cut-outs or blanks
- Perforation to adapt or separate the PE foams
- Hot-melt adhesive tape as an additional fixing aid

QUALITIES

PE foam: for all common applications – a versatile product that you can rely on.

BIO-  -PE foam: PE foam made from renewable raw materials.

Isoflex foam: extremely high resilience specifically designed for winding applications.

HFPE foam: halogen-free PE foam developed for applications and construction projects that are subject to stringent environmental requirements.

HT foam: our HT foam can be inserted into the area between the thermal partitions before the powder coating or anodising because of its high temperature and chemical resistance. Our HT foam can also be inserted into thermally insulated aluminium systems that have already been rolled due to its rigidity.

PROPERTIES

- λ -rated values between 0.031 and 0.038 W/(mK)
- Density of 25 to 120 kg/m³ depending on the quality
- Flame retardant in accordance with DIN EN 13501 Class E
- CFC and HCFC-free
- Recyclable
- Exempt from labelling – not classified as dangerous goods
- Fine, regular and closed cell structure

FORMS OF DELIVERY

- Rolled in a cardboard box
- Wound continuously on large coils
- Cut to length by the metre
- Small parts as bulk goods
- Special designs on request

	PE	BIO PE	HFPE	Isoflex	HT foam
Lambda value [W/(mK)]	0.038	0.039	0.038	0.036	0.031
Fire class	E	E	E	E	E
Rebound elasticity	+	+	+	++	-
Elasticity	+	+	+	++	+
Compressive strength	+	+	+	-	++
Temperature resistance	- 40° to + 100°C*	- 40° to + 100°C*	- 40° to + 100°C*	- 40° to +70°C*	- 40° to + 220°C*
Low water absorption	++	++	++	++	++

- = not suitable

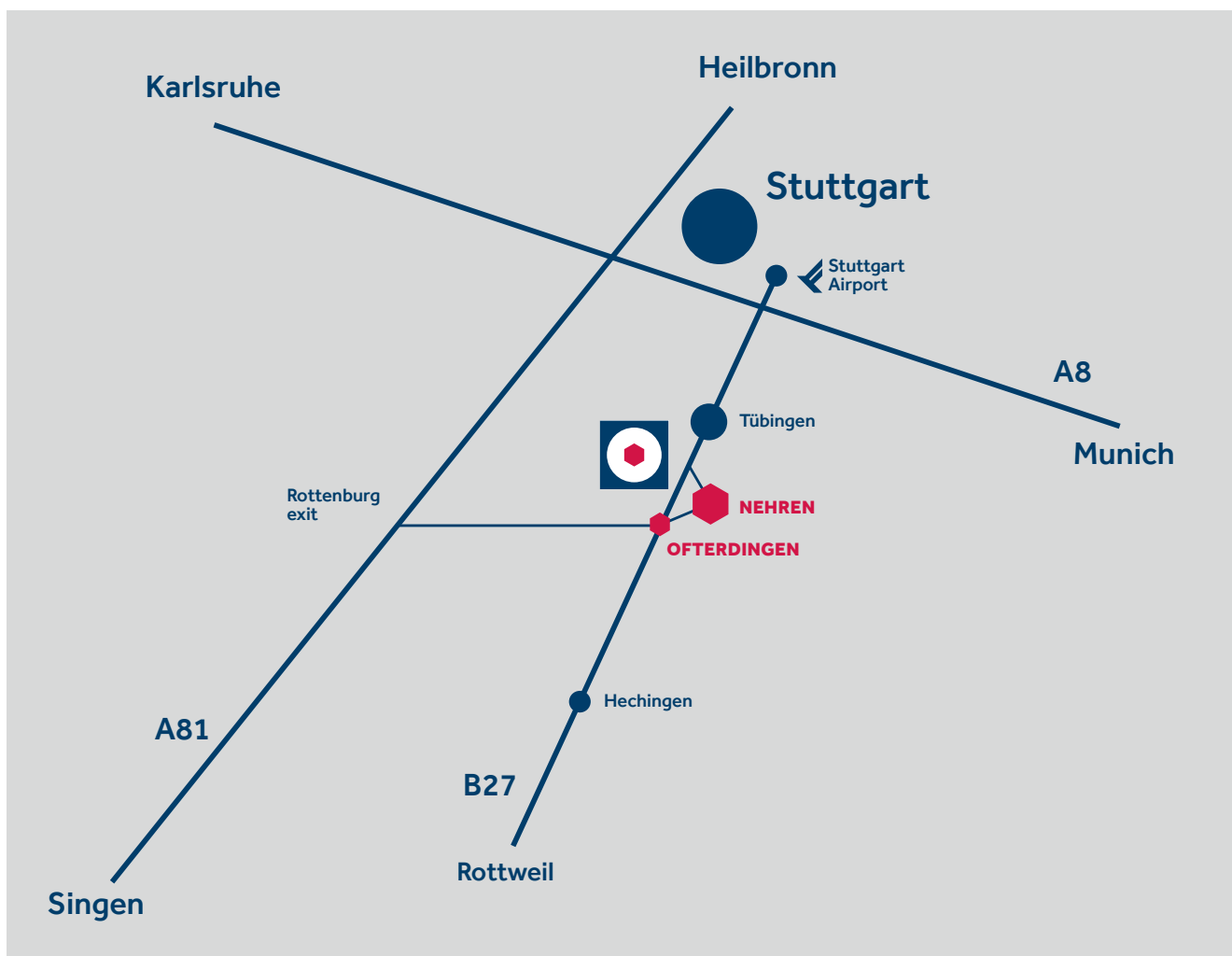
+ = well suited

++ = very well suited

* = short-term usage

Data sheets and samples of the different qualities are available on request.

Please refer to our separate profile overview for a detailed overview of the versions that we have available.



GARGIULO GmbH

Daimlerstr. 21
72147 Nehren
Germany

Tel.: +49 7473 - 9438-0
Fax: +49 7473 - 9438-250
E-mail: info@gargiulo.de
www.gargiulo.de

Version: 01.2018



PROFILÉS DE FENÊTRES EN PVC
1917 – 576