

SEMPERIT 
in partnership with



EPDM Sealing Profiles: for aluminium applications

DURABLE TAILORED SOLUTIONS



The Schlegel
Promise!

EPDM Sealing Profiles: endless possibilities

Schlegel manufacture different sealing systems for various industries and applications: brush pile seals, foam seals and extruded seals. Standard in-house manufactured (co)extruded profiles are available in various compounds: polypropylene (PP), polyvinyl chloride (PVC) and (foamed) thermoplastic elastomers (TPE). Each individual compound or combination in a well thought out shape and hardness allows the creation of a good working gasket for a particular application. Schlegel and Semperit now join forces to offer seals for aluminium window and façade applications based on ethylene propylene diene monomers (EPDM).

Cost-Effective Full Rubber Sealing Profiles

The importance of cost-efficiency and sustainability in building construction is growing. However, energy conservation and building insulation are achieved at the expense of air circulation, increasing the risk of condensation and mould growth in the window rebates. Synthetic rubber is unaffected by the climatic conditions. The durability and long-term sealing properties of EPDM rubber gaskets provide a highly effective counter-weight and add value to your window construction.

In the global marketplace manufacturing companies find themselves faced with increasingly complex challenges. As your high-performance partners, Schlegel and Semperit support you in your day-to-day business operations by providing you with tailor-made EPDM gaskets.

Together we develop customer specific solutions for a wide range of aluminium door and window applications suited to your individual requirements. We turn our own R&D expertise and extensive knowledge of materials, products and processes into high-quality sealing products that are perfectly matched to your production processes. Our integrated position in international corporate groups gives us the reach, flexibility and strength to help you on-site.

Our strengths:

- Development and design skills delivered by highly qualified employees with extensive experience in façade and window construction
- Rapid prototyping with waterjet technology
- Development partner of choice for many well-known system providers
- Full in-house test facility as well as finite element simulation available
- Short delivery times and reliable delivery performance

Cellular Rubber Gaskets

Sponge rubber has a cellular texture with many air pockets and therefore is an excellent insulator. Aluminium façades and windows are common in commercial construction and require high-quality insulation solutions with outstanding heat retention. Flexible sponge rubber with an unrivalled surface quality is optimal for such applications.



Co-extruded Seals

An innovative production process co-extrudes and vulcanises a non-cellular and a cellular compound. The non-cellular compound lends the gasket stability and heavy-duty properties. The cellular constituent provides for thermal insulation, mechanical resistance and elasticity. Together, they form a gasket that minimises heat transfer, withstands the highest loads and complies with the latest energy efficiency legislation.

Optional Product Finishes

- Full range of surface treatments: siliconisation, polymerisation, lubricating lacquer;
- Adhesive tape or butyl coating to support easy installation;
- Stretch protection: integrated textile thread;
- Notched, cut-to-size, punch holes, etc. for efficient assembly, and more.

The standard colour is black. For further colour coordination more colours are available. Depending on the total configuration special conditions may apply.



Standard Colour

Graphite Black



≈ RAL 9011

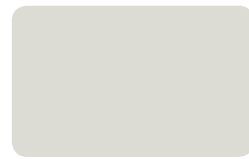
Alternative Colour Range

Fawn Brown



≈ RAL 8007

Light Grey



≈ RAL 7035

Grey White



≈ RAL 9002

Graphite Grey



≈ RAL 7024

Silver Grey



≈ RAL 7001

Papyrus White



≈ RAL 9018

Semperit EPDM sealing profiles offer the following advantages:

- Long-lasting high insulation value of 0.05 up to 0.25 W/m·K depending on composition
- Different compounds with outstanding mechanical properties
- First-rate compression set, minimal residual deformation
- Fast installation, durable, maintenance-free
- UV-resistant, ozone-resistant, weatherproof
- No contact discolouration on coatings and aluminium
- Elastic and impermeable at temperature ranges from -35 °C to +100 °C
- Certified to ISO 9001 (Quality), ISO 14001 (Environment) and OHSAS 18001 (Health & Safety)
- Further tested in accordance with DIN 7863 and DIN EN 12365

Highly insulating EPDM gaskets are developed and optimised as custom solutions for your needs, with various geometries and as notched or cut versions for ease of installation. Their weatherproof properties and resistance to environmental influences means seals deliver top performance in the harshest of climates. Thanks to their long-lasting, elastic recovery properties, EPDM gaskets are chosen for application in top-of-the-range doors, windows and façades.



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ENGINEERED COMPONENTS FOR THE FENESTRATION INDUSTRY



Schlegel Sealing Systems



Giese Hardware Systems

Schlegel International



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