



Corporate and Product Portfolio - aluplast India

GERMAN SPECIALIST

www.aluplast.net

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COMPANY PORTRAIT

Over the past 35 years, technology has advanced at an incredible rate. However, customers are no longer happy with run-of-the-mill solutions. aluplast has happily accepted this challenge. Spotting trends and developments early and a willingness to innovate all the time enable the company to respond with flexibility and a great deal of success. It is therefore no surprise to learn that we are known as a leading innovator in our industry. And we want to live up to this reputation in the future, too.

That is why aluplast is building up an outstanding position – both in Europe and beyond. On an international scale, we are one of the leading providers of uPVC profile systems. In the space of just 35 years, aluplast has transformed into a global player – with 10 production sites worldwide and customers in more than 80 countries.

Founded by Manfred J. Seitz 35 years ago, aluplast has since been taken over by his sons Patrick and Dirk Seitz: This makes aluplast the only owner-run company in its sector with a



Mr. Manfred J. Seitz, aluplast Founder (middle), his two sons Mr. Dirk Seitz (right) and Mr. Patrick Seitz (left)

commitment to retain this status for the long term.

The entrepreneurial Seitz family, a team of dedicated and motivated people, over 35 years of certified expertise and ground-breaking ideas have conjured up something special at the aluplast group. In the words of the Chairman of the Board Dirk Seitz "aluplast is perfectly equipped to tackle the challenges of the future and we are looking forward to working with you to beat them in future."

aluplast Group - An international high-profile system provider

An award-winning company: With the TOP100 Award 2016 and 2017, we have been recognised as an innovative medium-sized enterprise!

From the very beginning till the present day, aluplast has continuously introduced innovations to the market and brought new momentum to the industry, which over the years turned the company into the leading innovator. What makes us innovative? We create innovations the way a system provider should: systematically! Through a careful multilayered process, we ensure the success of these innovations.

For window fabricators, this means that we look ahead and analyse market and customer needs so



that we have solutions to meet them. Our concept for the future not only includes innovative products, but also efficient processes and support in all areas key to success, such as sales and marketing.

Construction companies benefit from factors such as high energy efficiency, burglary protection, user-friendly designs and the wide range of solutions options available for our window systems.

Our philosophy. Our formula for success.

Innovative, yet down-to-earth. Open-minded, but regionally rooted. Extremely versatile and steady at the same time – this is aluplast.

Despite its international success, aluplast still is a family-run business. The company, which now in its second generation, is characterised by flat hierarchies and short decision-making processes.

Company founder Manfred J. Seitz and his sons Dirk Seitz and Patrick Seitz managed to transform aluplast into one of the most successful companies in its industry in only a few years. As growth continued, the aluplast management team was further strengthened by Eric Bobay (CEO), Arne Przybilla (CFO) and Frank Spies (COO). Four key factors played a major role in this success:



INNOVATION

Constant product development and innovation are important to the success of both the aluplast group and its partners. We analyse current market requirements to create new products that satisfy the demand and meet our customers' highest expectations. So it is no surprise to hear that our innovative power has been recognised, with aluplast being named one of the TOP100 most innovative SMEs in Germany.

PARTNERSHIP

Our customers and partners are at the heart of everything we do. The company headquarters also maintain close partnership and cooperation with multiple production plants and sales offices all over the world. Through this, succesful synergies are formed.

FLEXIBILITY

Although aluplast has gone on to become a key global player, it has managed to retain key ingredients that are often attributed to SMEs. Flexibility remains one of our greatest strengths. Short communication channels and lean structures allow us to respond quickly to customer demands and market requirements.

COMPATIBILITY

"Compatibility" is the secret ingredient in aluplast's recipe for success. But what does it actually mean? In short, all product ranges can be mixed and matched, making life a lot easier for window fabricators. The company's owners, the Seitz family, have cultivated this philosophy right from the outset, making sure that each new product lives up to this vision.



Milestones in aluplast's history

A leading innovator within a few decades



1982

The birth of the innovation leader

aluplast GmbH was founded in October of 1982 by Manfred J. Seitz. With 27 employees and a clear vision, he started writing a remarkable success story.

1989

Launch of rebate gasket system

1996 Launch of centre gasket system Prevents the sash from being forced open – the ideal solution for





more safety.

1995 System compatibility

Revolutionary at the time; today it is the standard of the entire window sector: The idea to make all product series compatible with each other was a groundbreaking success for aluplast.

2005 New forum: The Innovation Days

aluplast presents innovations and concepts to their customers during the Innovation Days.

2008 energeto®

aluplast has set new standards in window technology with the steel-free, bonded system.





Bonding and glazing robot

New technologies for efficient production processes through fully-automated bonding and glazing.



2015 energeto® 5000 view As the system with the concealed sash can be mass-produced, it holds an exceptional position in the market.



2016 Launch of Multifalz

One sash that meets many requirements: Multifalz profiles can be glazed both conventionally or with the bonding inside technology.



2011

Start of

2014 aluplast Marketing Services

2015 Effective sales ma-

nagement: aluplast Sales-Cockpit

The EDP tool allows for assessing the economic attractiveness of customers. Focus on "good" customers.

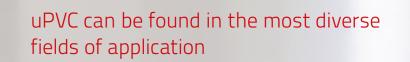






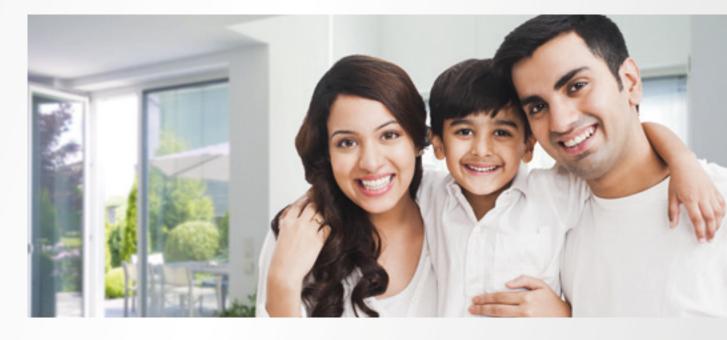
2012 lift-and-slide door 85 mm

The only lift-and-slide door in the market that can be fabricated in three different designs according to the required thermal insulation properties – even with barrierfree threshold.



uPVC is not only used for construction materials, but also for household-items such as food containers and drinking bottles. Also in the medical sector uPVC finds manifold applications.

ADVANTAGES OF ALUPLAST UPVC WINDOWS



Advantages of aluplast uPVC-windows

uPVC is the most suitable window material and its importance is constantly growing in India and all over the world.

Coextruded Gaskets

- Excellent insulation against heat, noise, rain, dust, pollution
- Super energy efficient

Lead Free and Environmentally Friendly

- Profiles made from uPVC raw material are stabilized 100% lead free
- aluplast uPVC profiles are completely non-toxic and harmless for humans and the environment
- Easy to recycle

Safe and Secure

- Self-extinguishing in case of fire
- Excellent burglary resistance

Colour Proof and Highly Durable

- No discoloration and top UV protection due to tropical compound
- Resistant against termites, rotting, rusting and corrosion
- Very low maintenance

Certified quality

- Made according to European Union Quality Standard EN12608 for uPVC window profiles
- Internationally tested and certified by renowned test institutes such as ift Rosenheim, SKZ, RAL

safetec inside

A smart way to thwart attempted break-ins

The fixed interior profile web for the third gasket all around the window frame improves thermal insulation and prevents the sash from being forced open easily.



powerdur[®] inside

Improved heat insulation



The first steel-free window has become a reality at aluplast: Together with BASF, we have developed a special fibre glass reinforced form of plastic, which is used inside the profiles to provide the required level of stability, eliminating the need for any additional steel reinforcements. Using powerdur® instead of steel in the PVC profiles considerably improves their insulating properties.

aluplast has also managed to take a huge step forward when it comes to recycling: Their profiles are now 100 % recyclable. In state-of-the-art aluplast recycling plants, the granulated PVC can be separated accurately from the powerdur® material and fed back into the production cycle several times.

bonding inside. A strong bond



With glass bonding, aluplast, as so often in the past, has set a trend in the industry

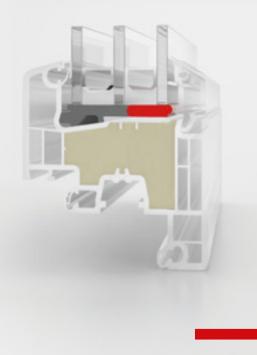
It is not without merit that this technology has now become inseparably connected with aluplast for many manufacturers.

The benefits are obvious: the glue establishes a strong bond between sash and glass. This means, the heavy weight of the pane no longer rests on single glazing blocks but is distributed over the entire bonding surface. This prevents sinking of the sash so that no further maintenance by the fitter is required. But that's not all: The gluing of the pane provides greater stability of the complete profile at the same time. When this method is used, at least in standard sizes there is no need for additional steel reinforcement inside the profile. The absence of steel eliminates the well-known thermal bridge and makes better thermal insulation values possible. Another advantage for the fitter: The profiles weigh up to 60 percent less without steel.

foam inside

Window technology at its best

The innovative technology foam inside allows for sensational insulation values. The profile chambers are filled with a special polyurethane foam. The trick here: The material is injected into the frame after the welding process. The foam has the special property to cover long stretches through the profile by itself. Due to the expanding foam, the hollow chambers of the window frame are filled completely, up to the corners. The exact filling capacity is calculated by a software program provided by aluplast. Of course, the foam inside is also completely recyclable, because unlike other standard construction foam it does not bond to the remaining profile materials.



Tropical Compound

for regions with high UV radiation

In regions with high UV radiation like India, uPVC window profiles need protection against the negative effects of sunlight.

aluplast has therefore developed a special uPVC compound to avoid discolorations. Our "tropical mix" compound has been tested in the U.S.A. and found to be compliant with the weathering requirements of the American Architectural Manufacturers Association (AAMA). aluplast has been supplying uPVC profiles for more than 20 years to areas with very high levels of UV radiation, like the Middle East.

TROPICAL COMPOUND



Window and door types are distinguished by their way of installation and method of opening.



Fixed glazing The glazing is inserted directly into the frame – there is no sash that can be opened.



Tilt-and-turn function The window can be opened to the inside and it can be tilted.

Folding window/ door

each running along a runner rail.

The sashes can be folded,



easy-slide The sash can be slid to the side to open the window/ door.



Casement - outward opening The sash is to be opened outwards

Tilt function -

from intrusion.

opening inwards



Tilt-and-slide window/door The sash can be tilted and slid to one side to open.



lift-slide

The sash is lifted by moving and ensures a much better sealing than a sliding window/ door.

Many combinations available ...



Turn function opening inwards The sash is to be opened outwards.

The window/ door can be tilted to ventilate your room but protects

IDEAL range

Windows for living

AN EXCELLENT START

IDEAL 2000[®] 60 mm construction depth

- Glazing thickness up to 35 mm
- Thermal insulation value $U_f = 1.6 W/m^2 K$
- Outstanding sound insulation up to sound transmission class IV (43dB)
- Three different sash designs (recessed | semi-recessed | flush)
- Glazing beads and profiles in several shapes
- Concealed drainage is possible
- 3-chamber profile system
- Special security hardware guarantees the highest level of burglary protection



THE TRIED-AND-TESTED OPTION

IDEAL 4000® 70 mm construction depth

- U_f = 1.3 W/m²K
- $U_w = 0.99 \text{ W/m}^2 \text{K}^{-1}$
- U_w=0.76 W/m²K best possible option²⁾
- Up to RC2 burglary protection
- Up to 45 dB sound insulation (sound insulation class 4)
- Up to 41 mm glazing
- Available in numerous decor variations
- Available with aluskin® aluminium shells
- Recessed, semi-recessed and round-line version
- Concealed drainage is possible
- Optional bonding inside (adhesive technology)



energeto[®] series

The best window in its class. Find inspiration for your home in the outstanding properties of a window that is hard to beat. aluplast's innovative technical features guarantee heat insulation, burglary protection and easy operation.

In conventional windows, the component that loses the most heat is the steel reinforcement, which send precious thermal energy outside. aluplast's response to this problem? energeto®, the revolutionary, steel-free window system.

A special material known as powerdur replaces steel and significantly improves heat insulation. As a result, the warmth stays exactly where it is needed: inside your home. Good for you, good for the environment.

bonding inside + powerdur inside = energeto®

A window without steel reinforcement for top energy efficiency.

- Excellent thermal insulation values
- Reduction of CO₂ emissions
- Lower air conditioning costs
- Environmental protection

- Unparalleled insulation value U_w of only 0.60 W/m²K
- Security confirmed by official test institutes
- 100% recyclable and reusable
- RAL certified window system

ENERGETO SERIES



energeto[®] 4000 70 mm construction depth

- U_f = 1.1 W/m²K
- powerdur inside
- bonding inside
- Up to RC2 burglary protection
- Available in numerous decor variations
- Available with aluskin® aluminium shells
- Recessed version
- Optional foam inside



Less is more

New paths in facade design

This design solution meets the latest trend towards clearly-structured, delicate facade designs. An extra slim design for more natural light and higher solar gains.

ENERGETO SERIES



LESS IS MORE

energeto[®] 5000 view 70 mm construction depth

- U_f = 1.0 W/m²K
- U_w=0.89 W/m²K¹⁾
- U_w=0.65 W/m²K best possible option²⁾
- With aluskin aluminium shell
- powerdur inside (fibre-reinforced PVC profiles)
- bonding inside (bonding technology)
- safetec inside (solid centre gasket web)
- Up to RC2 burglary protection
- Up to 41 dB sound insulation (sound insulation class 3)
- Up to 55 mm glazing
- Recessed version
- Concealed drainage is possible
- Optional foam inside (foam-filled profile)



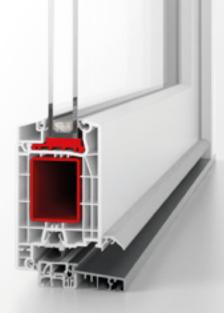
Front door

st impressions count

PRODUCT PORTFOLIO

70 mm front door

- 70 mm construction depth
- U_f = 1.5 W/m²K
- $U_d = 1.1 \text{ W/m}^2 \text{K}^{-1}$
- U_d=0.88W/m²K best possible option²⁾
- Up to RC2 burglary protection
- Up to 41 mm glazing / panel
- Recessed version, roundline version
- Weldable corner connectors for extra stability
- Many decor variations available
- Available with aluskin® aluminium shells
- Concealed drainage is possible



Highlight Special sash for leaf-enclosing filling

85 mm front door

- 85 mm construction depth
- U_f = 1.3 W/m²K
- $U_d = 0.94 \text{ W/m}^2 \text{K}^{-1}$
- U_d=0.80 W/m²K best possible option²⁾
- Up to RC2 burglary protection
- The backstop gasket system allows for the use of robust and strong striker plates
- Large steel-reinforcement chamber for high stability
- Up to 51 mm glazing / panel
- Recessed version
- Weldable corner connectors for extra stability
- Many decor variations available
- Available with aluskin[®] aluminium shells
- Concealed drainage is possible

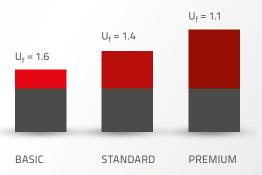
lift-slide

Enter a new modular dimension

1 SYSTEM - 3 PRODUCTS / BASIC, STANDARD, PREMIUM

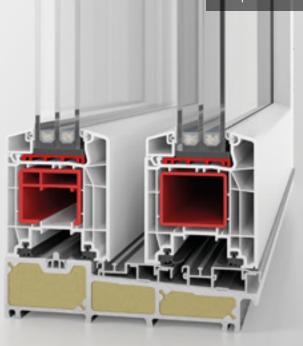
lift-slide 85 mm construction depth

- Up to RC2 burglary protection
- Up to 44 dB sound insulation (sound insulation class 4)
- Up to 51 mm glazing
- Available in numerous decor variations
- Available with aluskin® aluminium shells
- Concealed drainage is possible
- Barrier-free option
- Fixframe option



1 system - 3 products - basic - standard

- premium



lift-slide

Enter a new modular dimension

The modular system is a breakthrough in this segment: One system allows for the fabrication of three different products with different thermal insulation properties – from basic requirements to passive-house suitable solutions.

Regardless of the product you finally choose, it will always match the design of other aluplast systems - for wonderful and harmonious appearance of your home.

Harmonious appearance

Choose from countless decor foils and aluminium shells to match your windows to the design of the building and create a place where you can truly feel at home.

Technology that stands out

Outstanding verified values in terms of wind and water tightness, burglary resistance and acoustic insulation even at maximum sizes - unique in the field of lift-and-slide doors!



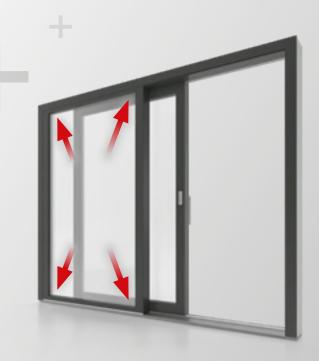
Barrier-free? Sure!

The goal: absolute freedom of movement for all those who are restricted in their mobility. The 85 mm lift-and-slide door is therefore available in a barrier-free version. The door frame, which looks like a continuous floor, now includes a flat threshold for a comfortable, obstacle-free transition from inside to outside. It's easy to open and close – even with very large elements.

The lift-and-slide door with barrier-free threshold fulfills the requirements required by DIN 18040 "Barrier-Free Construction".

Fixframe - Unique views

An extra narrow profile in the fixed glass pane lets even more light into your living space - for a higher standard of living and added warmth from the sun!



smart-slide

The revolutionary tight sliding solution

Good news for you and your customers: the new smart-slide door has top values for heat insulation, statics and sealing, and is impressively easy to operate ... and what's more, it can be manufactured in a short construction time.

PRODUCT PORTFOLIO



THE ALL-ROUND STAR

smart-slide

- Small construction depth of 70 mm
- $U_f = 1.4 \text{ W/m}^2\text{K}$
- Glazing and panel thickness up to 41 mm possible (single- to triple-glazed)
- Modern classic-line design
- Concealed hardware technology
- Selection of opening mechanisms: schema A + C
- Available in numerous decor designs
- Optional bonding inside (adhesive technology)









Sliding systems

The elegant connection between inside and outside

Enjoy your most beautiful view in the livingroom and let it brighten your life. The aluplast sliding window series can be fabricated individually according to your personal design requirements. You can therefore give the entire living space your own unique style. Experience a brand new standard of living.

PRODUCT PORTFOLIO

multi-slide

- Glazing thickness up to 32 mm
- Extension profiles for multi-track guide rail available
- Co-extruded gaskets
- Excellent structural values allow for large elements
- Aluminium threshold with integrated drain function
- Easy installation



easy-slide

- Glazing thickness up to 20 mm
- Elegant design
- Exchangeable gaskets
- Steel reinforcement can be integrated into both frame and sash to ensure excellent structural values

mono slide

- Glazing thickness up to 8 mm
- Unique sliding window with fixed and movable elements
- Exchangeable gaskets
- Many accessories available due to the standardized 60 mm frame system
- Integrated PVC interlock for perfect sealing
- Fanlights and different window combinations are available



woodec – inspired by nature

design variants

The most beautiful style of refinement



woodec - inspired by nature

An astonishing wooden effect and unique feel, together with all the advantages of a uPVC window: that's what you get with the new woodec window finish.

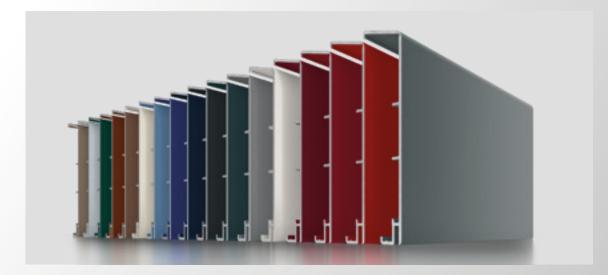
aluskin for premium design

The elegant appearance of aluminium is a major trend – throughout the entire living area. Refine your windows' look: with aluskin aluminium shells. The aluminium shells can be coated in all RAL colours, leaving no wishes unfulfilled.

sheffield oak concrete

sheffield oak alpine

turner oak malt





DESIGN



Dark grey carrier for pure elegance

Score points with your customers with an unusual design option: aluplast offers boundless elegance from every perspective with a carrier in anthracite combined with decorative films so that a uniform look is created even when opening the windows. The dark grey base is available for all standard systems.

Laminations for an individual look

Do you like wooden windows but you don't want to repaint them every few years? Combining the natural look of wooden windows with the easy-care properties of PVC, aluplast wood finish designs are the perfect solution.



Ventilation Systems

For an ideal indoor climate

Ventilation systems by aluplast are installed at the top of your window, between the frame and the sash. They create a permanent controlled flow of air.

PRECISE AIRFLOW CONTROL

These simple and highly effective systems create a pleasant atmosphere in your home and guarantee stress-free living when it comes to mould.

Your house can be infested by mould if certain rooms remain permanently damp without a chance to dry out. As well as affecting the beauty of your home, mould can also pose a severe problem to your health, potentially leading to breathing difficulties, allergies and many more issues. The automatic Basic Air max® systems were developed to solve this problem by controlling the amount of air movement depending on the environmental conditions. As a result, you can breathe hygienic air without wasting lots of energy. It can be used in rebate and centre gasket systems to ensure an air change when the windows are closed.

ACCESSORIES

Basic Air max

- High air passage values
- From air pressure values of 2 pa on
- Tested sound insulation up to class IV / 42 dB
- Ventilation for moisture protection according to DIN 1946-6 standard possible
- Meets the requirements of the German Energy Saving Ordinance (EnEV)
- For rebate and centre gasket systems (IDEAL 4000[®], IDEAL 5000[®], IDEAL 7000[®], IDEAL 8000[®] as well as energeto[®] 4000, energeto[®] 5000, energeto[®] 7000 and energeto[®] 8000)
- Independent of fitting types
- Inconspicuous for the eye is placed at the top of the window sash, above the head height

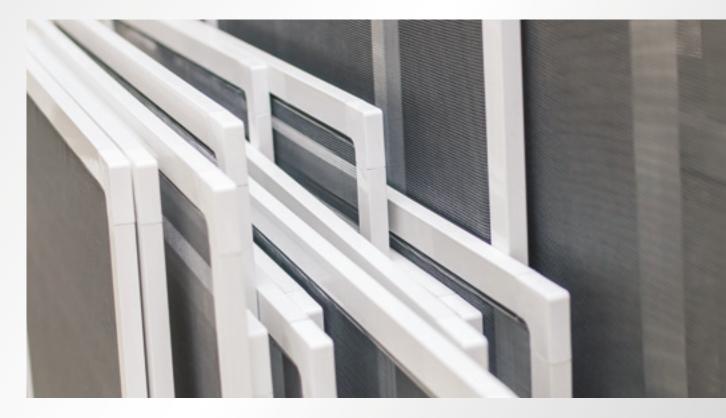


- 1. Control flaps: precisely regulate the airflow due to their flow contour.
- 2. Plastic hinge technology: ensures the sensitive mobility and a precise resilience of the control flaps.
- 3. Frontward side: adapts closely to the fixed frame.
- 4. Locking foot: holds the component firmly in the window sash.
- 5. Buffer: give the part the flexibility it needs to adapt to the different slit geometries.



Insect Screens

by aluplast



Bright, airy rooms are good for our wellbeing. But unwanted visitors are not. The best way to keep flies and mosquitoes away is with insect screens.

aluplast Insect Screens guarantee excellent transparency as well as top air permeability.

They are:

- Eco- and health-friendly
- Durable and long-lasting
- Safe and user-friendly
- Easily Maintained
- Elegantly Designed

In response to the Indian market's needs, in 2015 we launched a line of insect screen solutions developed by aluplast along with leading industry players such as our fly mesh partner trittec.

- The well-finished powder coated aluminium frames decoratively complement our stylish range of systems.
- Integrated Brush Seals between the window system and insect screen system ensure perfect insect protection.
- The 3plus highly transparent screen material combines outstanding optical properties with excellent air flow.
- Its discreet black fabric permits brilliant views from inside and is even from the outside barely perceptible.
- Consisting of an ultra-fine and tear-resistant high-tech thread it allows for sufficient light and air inflow.
- The fully weatherproof and shape elastic innovative insect protection fabric is available exclusively with aluplast.

Green world

Sustainability and eco-management

Looking after our planet is the only option! And we are proud that our energy-saving windows help contribute to this. Anyone trying to reduce energy consumption in buildings has to start with the windows. Thanks to our innovative technology, you can count on our window systems to have some of the best insulation figures around – all the way up to passive-house standards.



An ecologically sound production process and a sustainably designed workplace form a crucial part of the aluplast eco guidelines, which are reflected in our environment-friendly products.

For our Eco-Management system, we are certified according to ISO 50001. We have been able to significantly cut our energy consumption by introducing a new, highly-efficient compressedair screw compressor, streamlining the energy consumption of production lines and applying a range of other measures. This means that our production facilities now have the lowest energy consumption figures in Europe.

Designed with recycling in mind

We'll start with the good news: PVC can be recycled up to seven times without any compromises in terms of material quality. We began thinking about recycling a long, long time ago. We not only helped to drive towards the creation of Rewindo – an association dedicated to window recycling where uPVC window fabricators make a voluntary commitment to sustainable business – we have also invested heavily in recycling facilities for our Karlsruhe site. When we start developing our innovative products, we factor in recycling right from the outset. Take our energeto® windows, for instance: all materials can be separated and recycled with ease.

The raw materials used for our window profiles are based on a calcium-zinc chemical stabiliser that is strictly lead-free. With this eco-friendly stabiliser and our involvement in "VINYL 2010" (which implies the use of recycled materials in our plastic profiles, among other things), aluplast offers window systems that can be fabricated and recycled in an ecologically sound way.

Responsibility towards people and the environment

aluplast assumes responsibility for people and the environment and, together with its customers and partners, contributes actively to the protection of our natural environment.









aluplast® - Specialist for window and door systems

aluplast GmbH is one of the leading system providers of PVC windows, main entrance doors, roller shutters and controlled domestic ventilation systems. The family-owned company headquartered in Karlsruhe was founded in 1982 by Manfred J. Seitz. Today, aluplast has 10 productions sites worldwide and custumers in more than 80 countries. With its wide product portfolio, the company offers almost any possible window construction and variation. Its success is based above all on the company's market proximity that always results in pioneering innovations.

Learn more at www.aluplast.net

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