



**PLASTIXAL**

LIFETIME SAFETY



PLASTIXAL - Specialist window and door systems

**energeto<sup>®</sup> neo**

DESIGN MEETS TECHNOLOGY



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

# INNOVATION

IS OUR NATURE



In today's rapidly changing times, we are inundated with stimuli. This is contrasted by simple forms and clear structures. They are calm and soothing.

The energeto® neo system was inspired by the Bauhaus style. This style once revolutionised architecture. A simple and beautiful design for everyone. Lots of light and a combination of interior and exterior elements - themes that are as relevant as ever, even today after 100 years.

energeto® neo

## CREATING A FRAMEWORK OF NEW DESIGN STANDARDS

The energeto® neo window system is a new dimension in window design, able to meet the highest energy efficiency requirements and the latest design trends.

We have set ourselves a clear goal: to combine the most innovative aluplast technologies with unique design. Every detail and technology used is in line with this vision.

In the development process we have taken into account many of our customers' ideas and wishes: a modern and timeless design, a simple and compatible solution, and the desire to create windows for both newly built and renovated buildings.



# SIMPLE STRUCTURES MINIMALIST DESIGN

energeto® neo is an extremely attractive design proposal for customers who appreciate the timeless style. A simple, symmetrical, cubist shape is the hallmark of the system.



Simple angles with strong architectural shape but with lightness of design. The system offers two design lines: a minimalist, classic non-flush version, and a designer version with a flush design, which offers slim sightlines similar to an aluminium window. The unusual lightness and elegance of windows made in energeto® neo system are provided by narrow, expressive overlaps, which are narrower almost by half than in other aluplast systems.

Slim and clear shapes are obtained both from the outside and from the inside, thanks to a new range of glazing beads with straight contours.

## energeto® neo

- $U_f = 0,87 \text{ W/m}^2\text{K}^{1)}$
- $U_w = 0,69 \text{ W/m}^2\text{K}$  in the best configuration<sup>2)</sup>
- woodec and aludec as recommended decorative surfaces
- powerdur inside technology
- bonding inside technology
- foam inside technology in the sash and frame
- burglary resistance class up to RC2
- flush sash variant
- available in a wide range of colors
- recyclable product

1) in the glazing variant with a glass unit with  $U_g = 0,7$  with  $\Psi_i = 0,040 \text{ W/mK}$   
2) in the glazing variant with a glass unit with  $U_g = 0,5$  with  $\Psi_i = 0,030 \text{ W/mK}$





# DESIGN MEETS TECHNOLOGY



energeto® neo is a concept based on Aluplast innovative technologies:

- No need for steel reinforcements of PVC sections and replacing them with thermoplastic inserts reinforced with glass fiber, „powerdur inside”
- The use of double glazing and „bonding inside” technology to achieve the desired static and thermal parameters of window structures
- Possibility of increasing thermal permeability of sections by optionally filling the spaces of some internal chambers with “foam inside” thermoinsulating material



## COMFORT OF USE FOR MANY YEARS

Thanks to the permanent bonding of the glass and the sash, the risk of warping, bending, and settling of the sash is reduced, thus extending the life of the sash without the need for adjustment.



## OPTIMAL THERMAL INSULATION

The energeto® neo system is a new direction in thinking, because it involves, among others, the elimination of steel reinforcements previously used in profiles, which cause the deterioration of their thermal performance. By using alternative solutions, excellent thermal performance can be achieved.



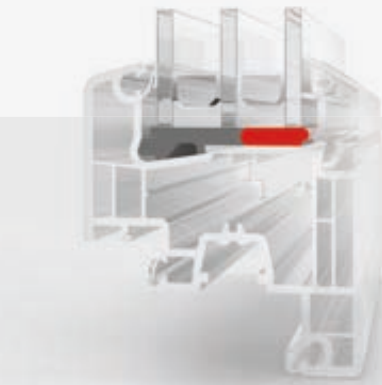
## BETTER PROTECTION AGAINST BURGLARY

When the glazing unit is glued to the profile, a very strong bond is formed around the entire perimeter. Thanks to the perimeter gap filled with glue, it is virtually impossible to push the glass out of the sash.

## bonding inside

energeto® neo is a platform dedicated to the technology of glass bonding, allowing to provide windows with even better performance.

The glue applied along the entire perimeter of the adjacent surfaces of the glass unit and the frame permanently joins them together and ensures that all glass units are properly supported at all times, which is not only beneficial to the compensation of stresses arising in the panes of the unit but also stabilizes and maintains the profile's susceptibility to deformation under the influence of forces arising from external atmospheric phenomena and operational loads within the acceptable limits.

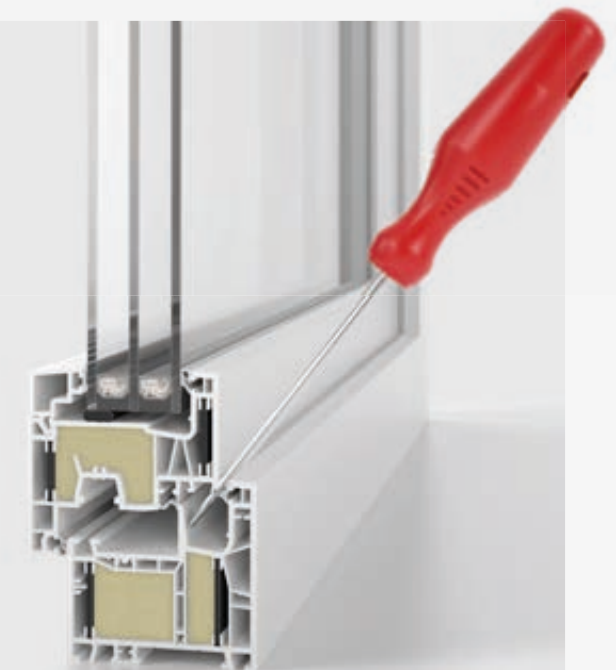


- Reduced risk of glass breakage
- Greater stability of windows
- Ability to create larger structures
- Better protection against burglary
- Extended operating life of windows

## safetec inside

The energeto® neo system is one of the few systems on the market with the classic centre seal.

Safetec inside”, which is a special extruded middle rebate, to which the third, internal seal adheres strongly ensures better tightness of the entire construction, improves thermal and acoustic properties and makes it more difficult to force open the sash by blocking access to the hardware.



# FREEDOM OF CHOICE

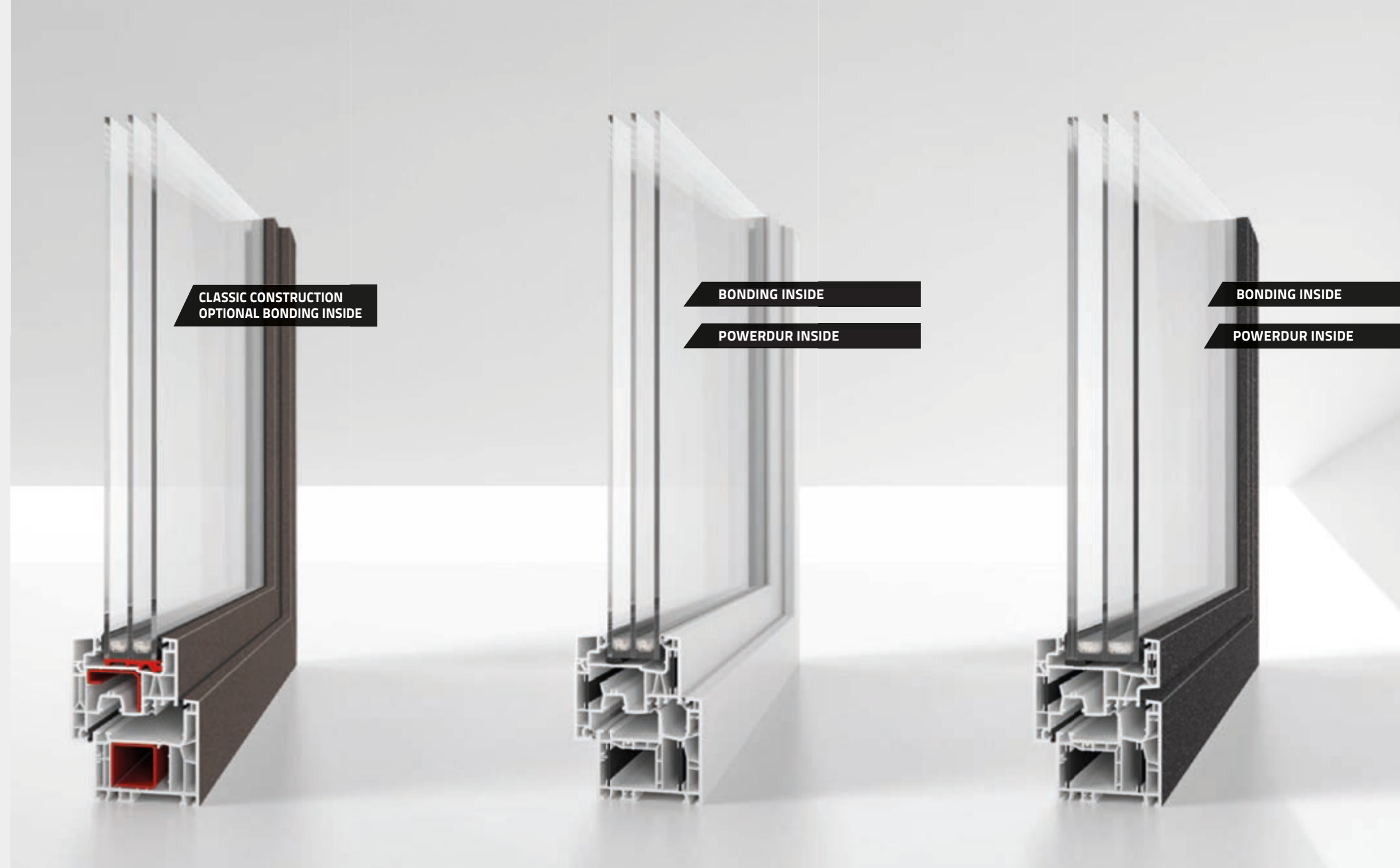
An extremely important design challenge for the energeto® neo series was the mutual compatibility of the profiles, allowing individual profile geometries to be freely combined while maintaining a relatively small number of profiles.

Thus, we limit the number of profiles stocked yet provide the maximum style configuration of windows.

The „Multifalz“ technology implemented in all systems provides profiles with multifunctionality.

Using only one profile section, one can choose between a conventional solution with steel, a solution without steel, or a possible combination of both solutions (e.g., for structures with non-standard dimensions).

The range of possible technical solutions for different requirements and applications is significantly increased by the use of bonding inside technology.



## IDEAL neo

- $U_f = 1,2 \text{ W/m}^2\text{K}^{1)}$
- $U_w = 0,79 \text{ W/m}^2\text{K}$  in the best configuration<sup>2)</sup>
- woodec and aludec as recommended decorative surfaces
- burglary resistance class up to RC2
- non-flush variant

1) in the glazing variant with a glass unit with  $U_g = 0.7$  with  $\Psi_i = 0.040 \text{ W/mK}$

2) in the glazing variant with a glass unit with  $U_g = 0.5$  with  $\Psi_i = 0.030 \text{ W/mK}$

## energeto® neo

- $U_f = 1,0 \text{ W/m}^2\text{K}^{1)}$
- $U_w = 0,73 \text{ W/m}^2\text{K}$  in the best configuration<sup>2)</sup>
- woodec and aludec as recommended decorative surfaces
- powerdur inside technology
- bonding inside technology
- burglary resistance class up to RC2
- non-flush variant
- optional: foam inside technology

1) in the glazing variant with a glass unit with  $U_g = 0.7$  with  $\Psi_i = 0.040 \text{ W/mK}$

2) in the glazing variant with a glass unit with  $U_g = 0.5$  with  $\Psi_i = 0.030 \text{ W/mK}$

## energeto® neo

- $U_f = 0,99 \text{ W/m}^2\text{K}^{1)}$
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woodec

inspired by nature

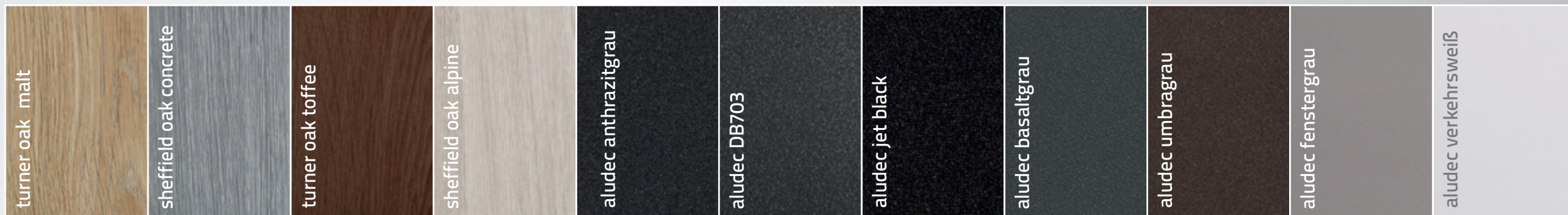
The new woodec surface offers the faithful look of real wood, among others due to its deep embossing and matt top layer.



The attractive surface of aludec decorative structures, distinguished by a unique fine-grained, matt surface with a structure of powder-painted aluminum, is certainly a proposal that will go well in modern, minimalist arrangements. The new aludec structures follow this trend, as they are offered in seven attractive shades, ranging from whites and greys, through brown, anthracite, and metallic Alux to deep black.

aludec

inspired by style



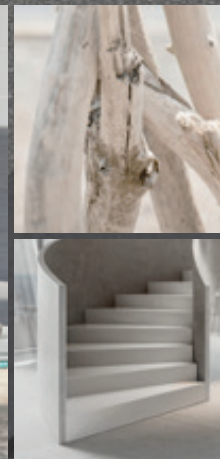


# THE WORLD OF COLOURS

FIND YOUR INSPIRATION

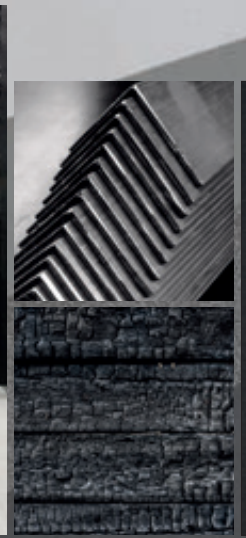
It's not just the wall colors, furniture, and decorations that define the atmosphere in a home. The role of windows for arranging and planning the functionality of rooms is also growing.

aludec umbra grey



woodec sheffield oak alpine

woodec turner oak malt



aludec anthracite grey

Minimalism and modern design. This trend is also increasingly being transferred to windows and doors, hence our offer of new decorative surfaces: woodec and aludec.

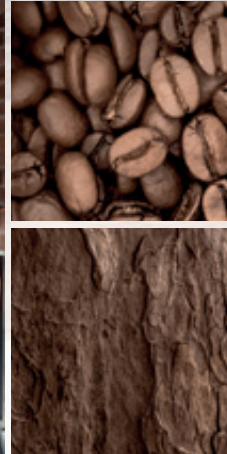
They provide a very realistic reflection of the chosen structure - timeless wood or trendy metallic or aluminum surfaces.



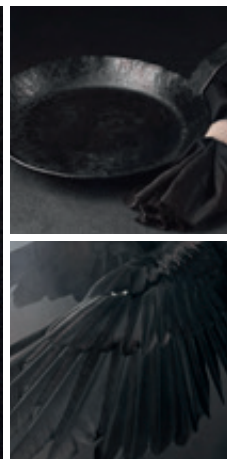
# THE WORLD OF COLOURS

FIND YOUR INSPIRATION

woodec turner oak toffee







aludec jet black



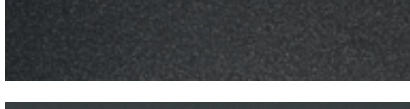
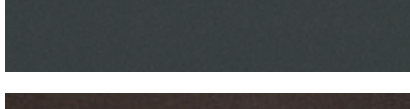
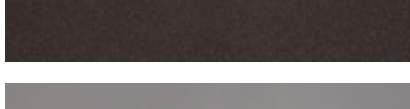
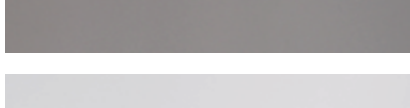
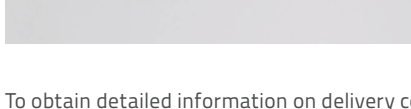


aludec DB703



aludec verkehrsweiß

woodec	Name and similar RAL	AP No	Code	Seal
	<b>sheffield oak concrete</b> (shoc) Similar to RAL 7012	-21	470-3003	■
	<b>turner oak toffee</b> (toto) Similar to RAL 8028	-22	470-3004	■
	<b>turner oak malt</b> (tom) Similar to RAL 1001	-19	470-3001	■
	<b>sheffield oak alpine</b> (shoa) Similar to RAL 7044	-20	470-3002	■

aludec	Name and similar RAL	AP No	Code	Seal
	<b>aludec jet black</b> (jbmdec) Similar to RAL 9011	-04	476-6062	■
	<b>aludec anthracite grey</b> (agdec) Similar to RAL 7016	-03	470-6003	■
	<b>aludec DB703</b> (DB703dec) Similar to RAL DB703	-07	470-1014	■
	<b>aludec basalt grey</b> (bgdec) Similar to RAL 7012	-08	470-6048	■
	<b>aludec umbra grey</b> (ugdec) Similar to RAL 7022	-12	470-6065	■
	<b>aludec window grey</b> (fgdec) Similar to RAL 7040	-37	470-6066	■
	<b>aludec traffic white</b> (wedec) Similar to RAL 9016	-36	470-6030	□

To obtain detailed information on delivery conditions please contact the aluplast sales department.



