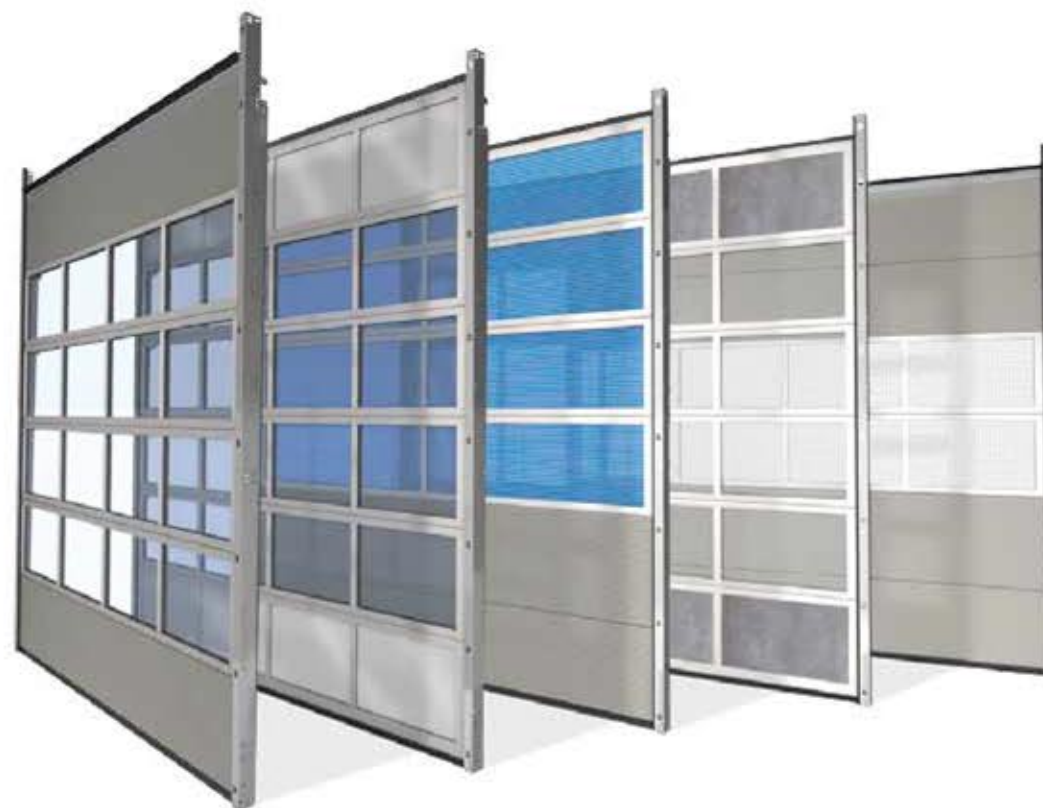




# ALU 40 mm

When natural light and visibility matter

In industrial environments, where light and visibility are of paramount importance, the Alpha ALU 40 mm sectional door proves to be indispensable. The door panel of an ALU door consists of multiple sections, and thanks to the custom-sized aluminium profiles, frames can be manufactured that have a very wide range of uses. Be bold and combine transparent, coloured, insulating or air-permeable windows with aluminium cassette panels. Anything is possible.



## Be adventurous with windows

ALU 40 mm sectional doors can be equipped with plastic window frames of various levels of quality and with different insulative values, colours and builds. Go for coloured glass or hollow-core plates, play with the divisions or combine various ISO panels with the ALU sections for a great result. Thanks to the plethora of design and application options, the ALU 40 mm sectional door is particularly useful if you want to combine an attractive design with optimal light transmittance.

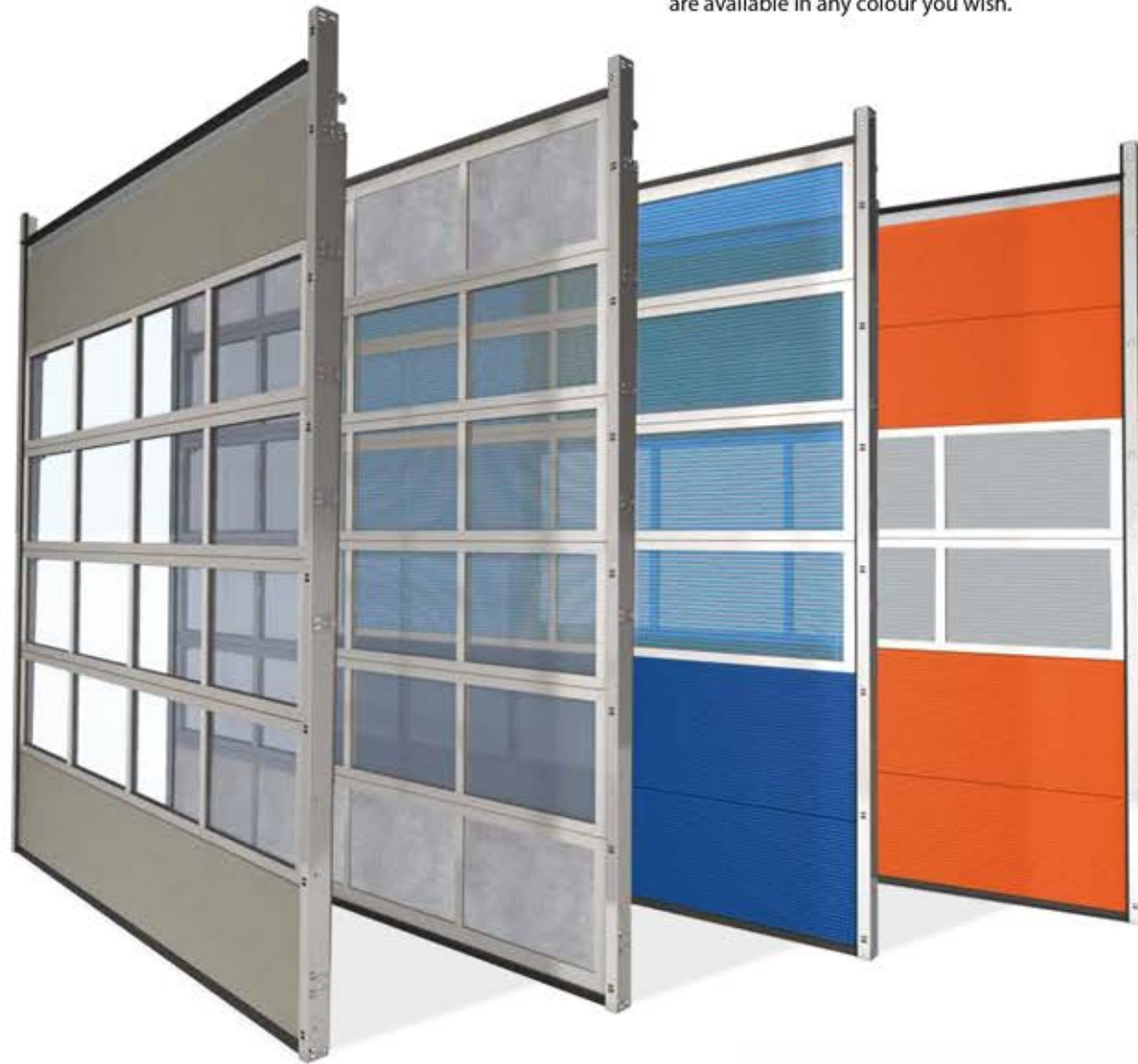
U-value of ALU 40 mm sectional door:  
5,000 x 5,000 mm: 4.25 W/m<sup>2</sup>K

## Different options

Alpha offers limitless choices in glazing for ALU doors. Windows of various levels of quality, colours, degrees of transparency and styles are available, giving architects all the room they need to get creative with the design of your ALU doors. Choose from single-plate acrylic or 4 mm tempered glass, double-plate acrylic windows or structural glass, or from perforated single panels or high-impact plastic. The possibilities are endless.

## Aluminium glazing beads

Alpha is one of the few companies to always use anodised aluminium glazing beads. You will often see windows fixed in place using a black plastic bead, which is not only less attractive and less durable, but also has a different coefficient of expansion than aluminium. If it is warm outside, the plastic is more likely to expand, resulting in bulging glazing beads, which will not happen with our aluminium glazing beads. Another advantage is that our glazing beads are available in any colour you wish.



## Combining colours

The standard ALU 40 mm door comes in white anodised aluminium. This does not mean that there are no alternative colour options. We can spray-paint the aluminium in any colour you wish. And by combining the aluminium with Rodeca glazing or ISO panels in one of the 20 colours from Alpha's in-house range, the design options are limitless.



**Single-glazed transparent plate** in: acrylic, polycarbonate, structural glass, 4 mm tempered glass



**Double-glazed transparent plate** (20 mm) in: acrylic, polycarbonate, Plexiglas Optical



**Double-glazed partially transparent plate** (20 mm) in: structural glass (SAN)



**5-core polycarbonate hollow-core plate** (20 mm) transparent (light transmittance 63%)



**5-core polycarbonate hollow-core plate** (20 mm) green (light transmittance 50%)



**5-core polycarbonate hollow-core plate** (20 mm) green (light transmittance 50%)



**5-core polycarbonate hollow-core plate** (20 mm) blue (light transmittance 38%)



**5-core polycarbonate hollow-core plate** (20 mm) anthracite (light transmittance 5%)



**Single-walled perforated ALU plate,** round perforation (light transmittance 40%)



**Single-walled perforated ALU plate,** square perforation (light transmittance 70%)



**Double-wall closed sandwich version** (20 mm), plaster on the inside and outside



**Double-wall closed sandwich version** (20 mm), smooth plate on the outside and plaster on the inside

## Interior view ALU 40 mm



### Standard frame

The standard frame between the door and the vertical railing ensures that the sides of the door seal properly.



### Heavy-duty frame

We use this type of frame for doors with a dark colour. Due to the heat of the sun, the door may expand in the middle against the upper lintel. The heavy-duty frame prevents this from happening.



### Aluminium glazing beads

Aluminium glazing beads stay perfectly sealed and retain their high-quality appearance, even in wide temperature fluctuations.



### Wind load

Depending on the width, the ALU 40 mm sectional door is fitted with integrated single-piece reinforcement profiles. Thanks to the reinforcement profiles, the door is able to withstand a heavy wind load. Depending on the door configuration chosen, we use thicker and/or longer profiles. For a door of 4,200 mm and wider, every other panel has a profile, while for a door of 5,000 mm and wider, each section has a reinforcement profile.



### Top seal

The upper door panel of the ALU 40 door is equipped with a rubber door seal, which provides additional insulation and ensures the best possible connection to the upper lintel. The door fits seamlessly and no energy is lost.



### Section connection

The sections of an ALU 40 door are specially sealed to make them completely wind and waterproof using an EPDM rubber door seal.



### Single side hinge

Alpha uses single side hinges for doors that open up to 5 meters. They are sturdily built and ensure that the door hangs well and closes properly.



### Double side hinge

Alpha uses double side hinges for doors that open more than 5 meters. This ensures that even the heaviest of doors hang well.



### Floor seal

Alpha uses double rubber sealing strips to ensure that the door is flush with the floor. Together with a concrete strip, this will prevent water from seeping under the door.