

Doors





Design your front door.

In this catalogue, we showcase our range of front doors. Though what is actually presented is less a selection of doors, than a description of the components from which we will assemble your door. From locks and frame shapes to door leaf materials – we endeavour to offer you the greatest possible variety. And always coupled with maximum freedom in the design of your desired model. Because, at Finstral, almost everything is combinable with everything else.

How is this possible? It is thanks to the consistent modularity of our products and the high proportion of components produced in-house. So everything fits perfectly with everything else and lasts for decades.

We look forward to helping you choose your new front door!

Florian, Joachim and Luis Oberrauch

Finstral Board of Directors



From left to right: Florian, Joachim and Luis Oberrauch

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We use them all the time: front doors feature prominently in our everyday lives. Make sure you take the necessary time to design them with all due care.

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The façade side

12

→ Design

You can make use of materials, colours, finishes, shapes and handles to determine the exterior design of your front door.

108

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Protect your home from burglars while also selecting the suitable privacy and solar protection.

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The core

122

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Choose the ideal insulation to optimise heating and cooling, reduce noise and maximise sealing.

128

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You can rely on us to deliver the ideal installation method for every situation – and on our certified installation quality.

From 44, interviews



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Architect Orsola Zannier

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114

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By combining materials, colours, shapes and handles, you yourself can fashion the interior look of your door.

180

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Manual or motorised locking, flat threshold, door holder: choose the ideal means of operating your door.

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Coordination, delivery, installation, acceptance: we make sure that your order runs smoothly.

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Our warranties and certifications vouch for lasting quality. We are there to help you even after installation.

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The world of Finstral

We are a South Tyrolean family business – all key production steps are carried out in-house.

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“A smart home starts at the front door.”



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Finstral Managing Director
Joachim Oberrauch

**“Sustainability is not a goal,
but an attitude.”**

Discover what makes a front door perfect.

We use them all the time – over decades. Front doors feature prominently in our everyday lives. Make sure you take the necessary time to design them with all due care.

A sense of well-being.

We like to receive a friendly welcome. And enjoy maximum protection – from heat and cold, wind and rain as well as uninvited guests. Just how well your front door can do all this will have a major impact on your well-being.





A vision of beauty.

A place only becomes a home when we start to fashion it in accordance with our wishes. The front door marks the entrance to the house. On the outside, it shapes the architecture, on the inside, the style of the interior. A new front door gives expression to your vision of beauty.



A commitment to sustainability.

We all bear responsibility for energy and resource consumption. Indeed, what we do not use in the first place cannot harm the environment. The higher-grade, the more intelligent – and thus the more lasting – a product is, the better its environmental profile.

You use your front door every day.

Your home lies behind it, the world begins in front of it. It is designed to protect us. Its look shapes the style of the architecture. It is used day in, day out, for years and decades. An apparently straightforward product at the transition between indoors and outdoors. And yet it is so crucial for beauty, well-being and sustainability.



The perfect door comes from a single source.

If you want something done properly, then do it yourself. That is why Finstral develops, manufactures and handles practically everything itself – from the frame profiles to the installation method. All designed for modular coordination and perfect interaction. For doors that set new standards in terms of beauty, well-being and sustainability.

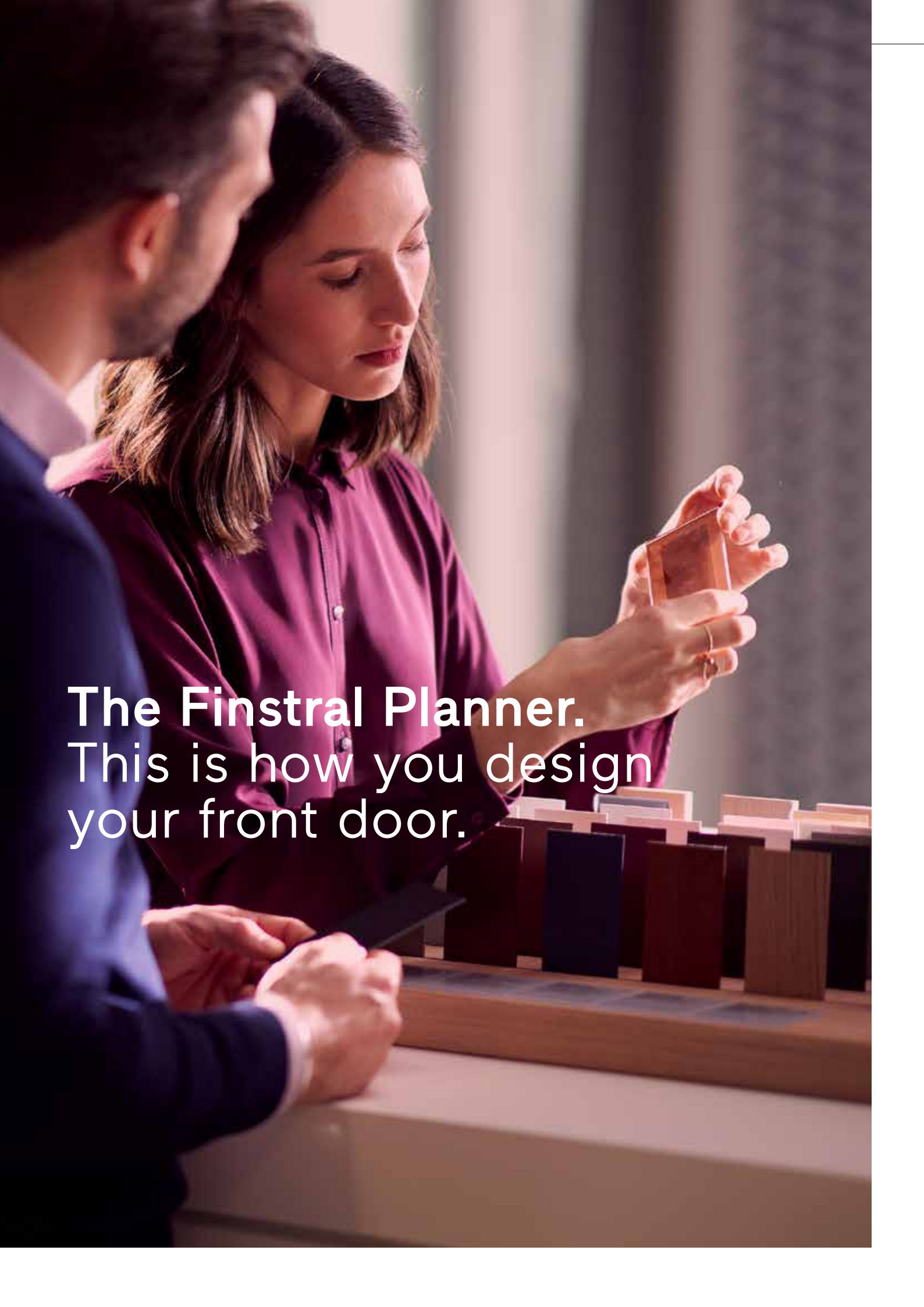




Each front door is unique.

It is custom-assembled for each building in line with the specified size, shape, material, colour, security standard, user comfort and, not least, mounting method. By putting together the required components, we deliver a door that precisely matches your needs.

Based on countless individual decisions on beauty, well-being and sustainability.

A man and a woman are looking at a color palette for door design. The woman is holding a small square of wood with a reddish-brown stain, examining it closely. The man is holding a small square of wood with a dark blue stain, also examining it. They are standing in front of a display of various wood samples, including different stains and finishes. The background is a blurred interior space with large windows.

The Finstral Planner.
This is how you design
your front door.



Exterior

The façade side

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Centre

The core

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We at Finstral always plan in four dimensions.

Our range of doors offers you high-quality design without functional compromises. Whether for a technical feature or an aesthetic detail: (almost) everything is combinable with everything else. In addition, thanks to the clear structure of the Finstral Planner, you can always keep an eye on the big picture when designing your desired front door.

Exterior → Design

The façade side of your front door.



Material
Colour/Finish
Shape
Handle



Material

→ Door frame and door leaf

Freely combinable.

When designing the exterior of your front door, you have a choice of two materials for the frame and four for the leaf.

	uPVC leaf	Aluminium leaf
uPVC frame		
Aluminium frame		

We have now been producing our uPVC profiles in-house for over 40 years – from uPVC granulate with a high proportion of recycled material based on an extra-high-quality formula. This lends them lasting dimensional stability, weather resistance and easy cleanability – while making them fully recyclable.

Aluminium not only excels by offering maximum freedom in terms of colour and finish design, it is also particularly heat-stable and easy to clean. Even dark frames retain their shape when exposed to strong sunlight. Water and dirt simply bead off to make cleaning easy.

[Exterior → Design → Colour/Finish → uPVC](#)

[Exterior → Design → Colour/Finish → Aluminium](#)

Glass leaf

Ceramic leaf



We manufacture our enamelled-glass door leaves in-house and bake the enamel colours directly onto the material. We can also use our glass printer to reproduce custom motifs. Enamelled glass has a contemporary, lightweight feel and, at the same time, impresses by its high weather resistance.

Ceramic materials are particularly notable for the depth and vibrancy of their finish. They are fired in several layers, allowing light to bring out different shades, depending on its intensity and angle of incidence.

Colour/Finish → uPVC

Colours galore, quality to the fore.

Finstral has been producing uPVC profiles in-house for decades and, having perfected its surface finishing techniques, turns out products that meet the utmost standards in terms of look and touch. Regardless of the finish – extra smooth, embossed or satin – the high-quality base material ensures that the colours and surface textures are perfectly expressed, with durability guaranteed.

You can find our uPVC-wood decors under [Exterior → Design → Colour/Finish → Wood decor](#)

Through-coloured material, light-fast colours.

Our uPVC components are always through-coloured and not just film-coated, thereby lending the door a top-quality appearance, even when open. The light-sensitive grey tones receive additional, thermally laminated UV protection. Given the susceptibility of dark uPVC profiles to deformation under exposure to sunlight, we deliberately offer dark shades only in heat-resistant aluminium.

Easy-care with high-grade finish.

Top-quality finishes, achieved through the compression and finishing operations during extrusion, have been Finstral's hallmark since 1984. At Finstral, textures are directly embossed into the material and not stuck on as a film – this delivers homogeneous finishes that are also scratch- and dirt-resistant.

Smooth classic glossy

01

White
extra smooth

Embossed lacquered wood look

42

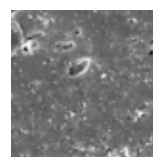
White
embossed

07

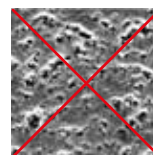
Pearl White
embossed

Uniquely easy-care.

Only Finstral seals the dirt-sensitive micropores of its uPVC profiles by compressing these during extrusion. This prevents dust from settling.



Compressed surface of an extruded, extra-smooth Finstral uPVC profile (heavily magnified).



Conventional smooth finish of an extruded uPVC profile (heavily magnified).

Satin finish simple and modern

45

White
satin finish

27

Pearl White
satin finish

46

Silk Grey
satin finish

06

Grey
satin finish

Only Finstral finishes all uPVC surfaces, such as these in Pearl White embossed, Silk Grey satin finish, Grey satin finish and White extra smooth, by means of high-grade, durable (blind) embossing.



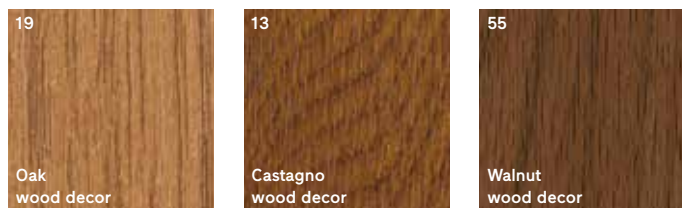
Colour/Finish → Wood decor

Whether uPVC or aluminium: always with the look of natural wood decors.

Do you adore the aesthetics of wood, but nonetheless wish to have a permanently easy-care door? With its wide range of wood decors, Finstral offers you a wealth of high-quality, weather-resistant finishes – made of uPVC or aluminium.

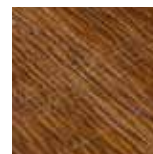
uPVC-wood decor.

Available in three colours, our uPVC-wood decors are hardly distinguishable to the eye from real wood while being much easier to clean and less sensitive to sunlight, moisture, scratches and dirt. To imitate the appearance of wood, the decor is thermally laminated in the uPVC and the grain embossed in the surface. The frame is also completely through-coloured in a matching brown tone.



Extra-robust.

Thermally laminated in through-coloured uPVC, the wood decor offers greater resistance to damage. As the cross-cut test shows, the standard market practice of bonding the wood decor film to white frame profiles means that any damage is visible.



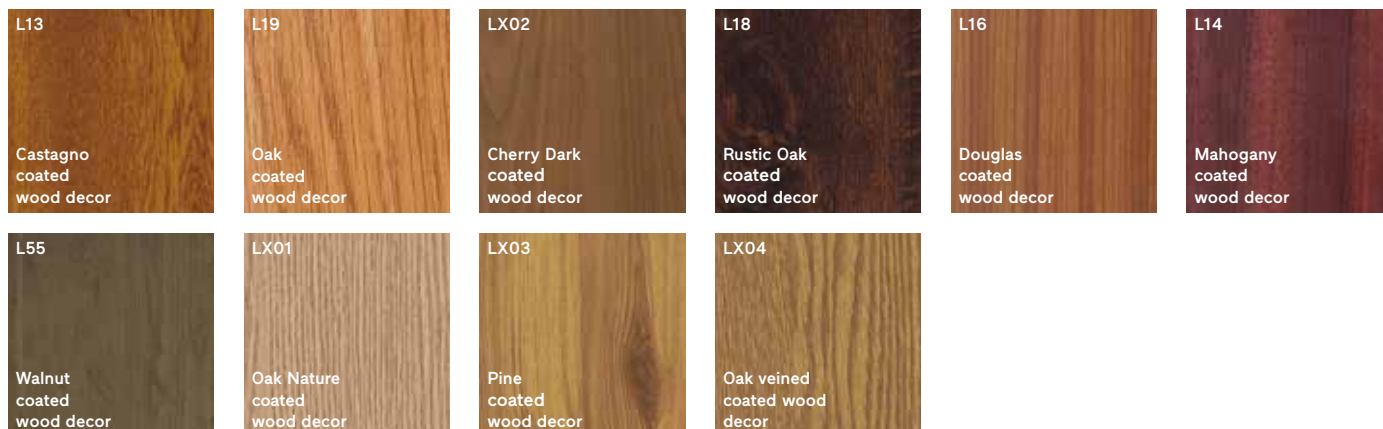
Finstral uPVC finishes with wood decor pass the cross-cut test to DIN EN ISO 2409.



Standard uPVC finishes have a bonded wood decor film that becomes easily detached when damaged.

Aluminium-wood decor.

Our ten high-grade aluminium-wood decors look deceptively genuine – and are far easier to clean than the original. Aluminium exhibits high dimensional stability even under heavy heat and moisture exposure. In sunny climates, this makes aluminium the best choice for doors with a dark wood finish.



Our wood decors boast the appearance of real wood, though are less sensitive to scratches, dirt and weathering – here aluminium-wood decor in L13 Castagno coated, aluminium-wood decor in LX02 Cherry Dark coated and uPVC-wood decor in 19 Oak.



Colour/Finish → Aluminium

Maximum colour variety.

Choose from around 250 colours: the high-quality powder coating applied in-house in accordance with the stringent Seaside Qualicoat standard vouches for permanent colour brilliance.

Full-strength colours based on RAL colour range.

M100 Green Beige matt	M101 Beige matt	M102 Sand Yellow matt	M103 Signal Yellow matt	M104 Golden Yellow matt	M105 Honey Yellow matt	M106 Maize Yellow matt	M107 Daffodil Yellow matt
M111 Brown Beige matt	M112 Lemon Yellow matt	M113 Pearl White matt	M114 Ivory matt	M115 Light Ivory matt	M116 Sulphur Yellow matt	M117 Saffron Yellow matt	M118 Zinc Yellow matt
M119 Grey Beige matt	M120 Olive Yellow matt	M121 Rape Yellow matt	M123 Traffic Yellow matt	M124 Ochre Yellow matt	M127 Curry Yellow matt	M128 Melon Yellow matt	M132 Broom Yellow matt
M133 Dahlia Yellow matt	M134 Pastel Yellow matt	M137 Sun Yellow matt	M200 Yellow Orange matt	M201 Red Orange matt	M202 Blood Orange matt	M203 Pastel Orange matt	M204 Pure Orange matt
M208 Bright Red Orange matt	M209 Traffic Orange matt	M210 Signal Orange matt	M211 Deep Orange matt	M212 Salmon Orange matt	M300 Flame Red matt	M301 Signal Red matt	M302 Carmine Red matt
M303 Ruby Red matt	M304 Purple Red matt	M305 Wine Red matt	M307 Black Red matt	M309 Oxide Red matt	M311 Brown Red matt	M313 Tomato Red matt	M314 Antique Pink matt
M315 Light Pink matt	M316 Coral Red matt	M317 Rose matt	M318 Strawberry Red matt	M320 Traffic Red matt	M322 Salmon Pink matt	M331 Orient Red matt	M401 Red Lilac matt
M402 Red Violet matt	M403 Heather Violet matt	M404 Claret Violet matt	M405 Blue Lilac matt	M406 Traffic Purple matt	M407 Purple Violet matt	M408 Signal Violet matt	M409 Pastel Violet matt

Our aluminium can be coated in around 250 colours, including most of the shades in the RAL range – with a matt or finely textured finish.



Colour/Finish → Aluminium

Full-strength colours continued.

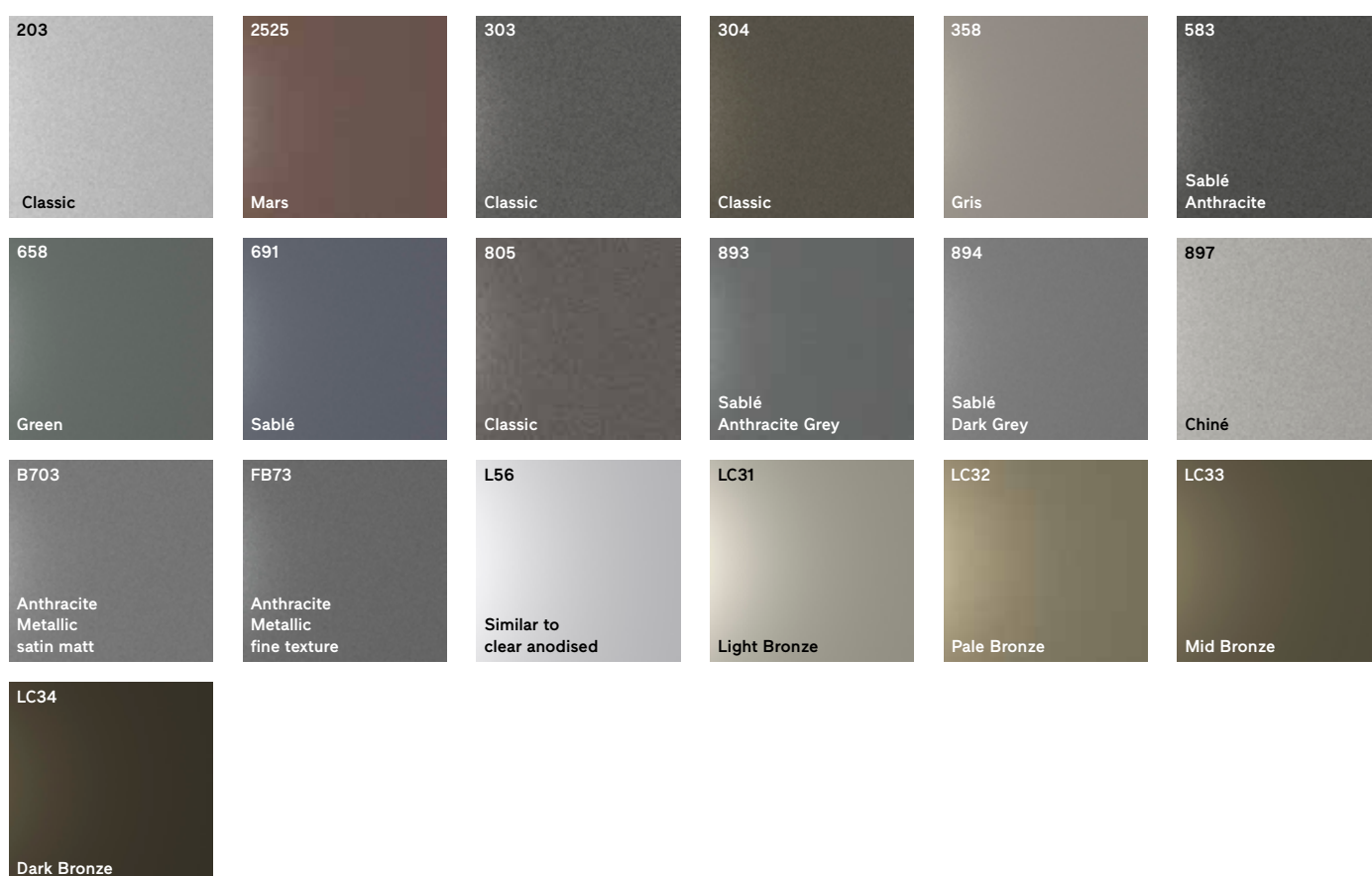
M410 Telemagenta matt	M411 Pearl Violet matt	M412 Pearl Blackberry matt	M500 Violet Blue matt	M501 Green Blue matt	M502 Ultramarine Blue matt	M503 Sapphire Blue matt	M504 Black Blue matt
M505 Signal Blue matt	M507 Brilliant Blue matt	M508 Grey Blue matt	M509 Azure Blue matt	M510 Gentian Blue matt	M511 Steel Blue matt	M512 Light Blue matt	M513 Cobalt Blue matt
M514 Pigeon Blue matt	M515 Sky Blue matt	M517 Traffic Blue matt	M518 Turquoise Blue matt	M519 Capri Blue matt	M520 Ocean Blue matt	M521 Water Blue matt	M522 Night Blue matt
M523 Distant Blue matt	M524 Pastel Blue matt	M600 Patina Green matt	M601 Emerald Green matt	M602 Leaf Green matt	M603 Olive Green matt	M604 Blue Green matt	M605 Moss Green matt
M606 Grey Olive matt	M607 Bottle Green matt	M608 Brown Green matt	M609 Fir Green matt	M610 Grass Green matt	M611 Reseda Green matt	M613 Reed Green matt	M614 Yellow Olive matt
M615 Black Olive matt	M616 Turquoise Green matt	M617 Maize Green matt	M618 Yellow Green matt	M619 Pastel Green matt	M620 Chrome Green matt	M621 Pale Green matt	M622 Brown Olive matt
M624 Traffic Green matt	M625 Fern Green matt	M626 Opal Green matt	M627 Light Green matt	M628 Pine Green matt	M629 Mint Green matt	M632 Signal Green matt	M633 Mint Turquoise matt
M634 Pastel Turquoise matt	M637 Pure Green matt	M700 Squirrel Grey matt	M701 Silver Grey matt	M702 Olive Grey matt	M703 Moss Grey matt	M704 Signal Grey matt	M705 Mouse Grey matt
M706 Beige Grey matt	M708 Khaki Grey matt	M709 Green Grey matt	M710 Tarpaulin Grey matt	M711 Iron Grey matt	M712 Basalt Grey matt	M713 Brown Grey matt	M715 Slate Grey matt

M716	M721	M722	M723	M724	M726	M730	M731
Anthracite Grey matt	Black Grey matt	Umbra Grey matt	Concrete Grey matt	Graphite Grey matt	Granite Grey matt	Stone Grey matt	Blue Grey matt
M732	M733	M734	M735	M736	M737	M738	M739
Pebble Grey matt	Cement Grey matt	Yellow Grey matt	Light Grey matt	Platinum Grey matt	Dust Grey matt	Agate Grey matt	Quartz Grey matt
M740	M742	M743	M744	M745	M746	M747	M748
Window Grey matt	Traffic Grey A matt	Traffic Grey B matt	Silk Grey matt	Telegrey 1 matt	Telegrey 2 matt	Telegrey 4 matt	Pearl Mouse Grey matt
M800	M801	M802	M803	M804	M807	M808	M811
Green Brown matt	Ochre Brown matt	Signal Brown matt	Clay Brown matt	Copper Brown matt	Fawn Brown matt	Olive Brown matt	Nut Brown matt
M812	M814	M815	M816	M817	M819	M823	M824
Red Brown matt	Sepia Brown matt	Chestnut Brown matt	Mahogany Brown matt	Chocolate Brown matt	Grey Brown matt	Orange Brown matt	Beige Brown matt
M825	M828	M901	M902	M903	M904	M905	M906
Pale Brown matt	Terra Brown matt	Cream White matt	Grey White matt	Signal White matt	Signal Black matt	Jet Black matt	White Aluminium matt
M907	M910	M911	M916	M917	M918	M922	9017
Grey Aluminium matt	Pure White matt	Graphite Black matt	Traffic White matt	Traffic Black matt	Papyrus White matt	Pearl Light Grey matt	Traffic Black glossy
F05	F09	F113	F119	F305	F45	F511	F609
Antique White fine texture	Azure White fine texture	Pearl White fine texture	Grey Beige fine texture	Wine Red fine texture	White satin finish fine texture	Steel Blue fine texture	Fir Green fine texture
F612	F702	F703	F716	F721	F722	F723	F739
Black Green fine texture	Olive Grey fine texture	Moss Grey fine texture	Anthracite Grey fine texture	Black Grey fine texture	Umbra Grey fine texture	Concrete Grey fine texture	Quartz Grey fine texture
F742	F744	F819	F90	F905	F91	F918	F92
Traffic Grey fine texture	Silk Grey fine texture	Grey Brown fine texture	Grey White fine texture	Jet Black fine texture	Pebble Grey fine texture	Papyrus White fine texture	Platinum Grey fine texture
F93	F94	F95	L05	M01	F958		
Orange Brown fine texture	Olive Brown fine texture	Terra Brown fine texture	Antique White glossy	White matt	Canal Green fine texture		

Colour/Finish → Aluminium

Special effect colours.

Whether sablé tones with a slightly grainy texture or metallic variants – these colours produce vivid, ever-surprising reflections.

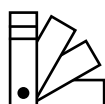


Special colours.

Our aluminium finishes can also be designed with NCS and DB colours on request. Only DB703 is in our standard colour range. Please feel free to contact us!

Wood decors.

You can find our aluminium-wood decors under [Exterior → Design → Colour/Finish → Wood decor](#)



Colour representation similar.

Binding colour samples are available from your specialist consultant or at finstral.com/samples

Lasting dimensional stability.

Finstral always provides dark frame profiles with a dimensionally stable aluminium facing. As uPVC has a softening point of just below 80 °C, dark-coloured profiles will irreparably deform under permanent exposure to sunlight.



Dark aluminium remains dimensionally stable even under heavy heat exposure.



Dark uPVC heats up quickly and has a tendency to distort due to its softening point below 80 °C.

We also offer special effect and special colours for our door designs. Here: LC32 Pale Bronze, B703 Anthracite Metallic satin matt, 203 Classic and 583 Sablé Anthracite.

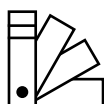


Colour/Finish

→ Enamelled glass

Brilliantly rich colours.

Baking the colour enamel into the glass makes the warm natural tones of our enamelled glass surfaces particularly brilliant and durable. In our hardening furnace, the colour enamel layer is baked onto the rear face of the glass at a temperature of 670 °C. You have a choice of seven full-strength colours, which are the same ones used for enamelling our windows.



Colour representation similar.

Binding colour samples are available for viewing at a Finstral Studio near you.

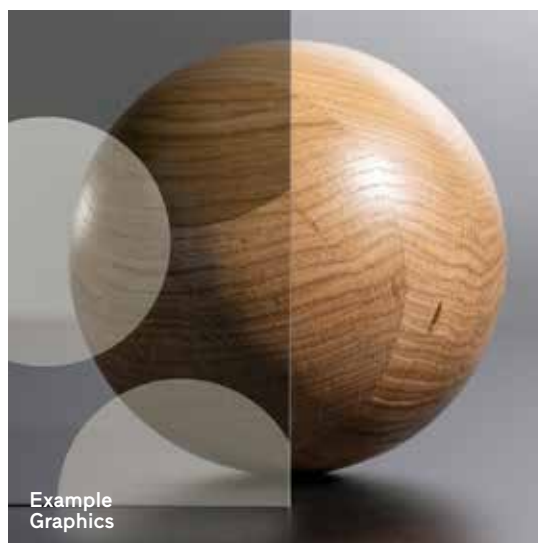
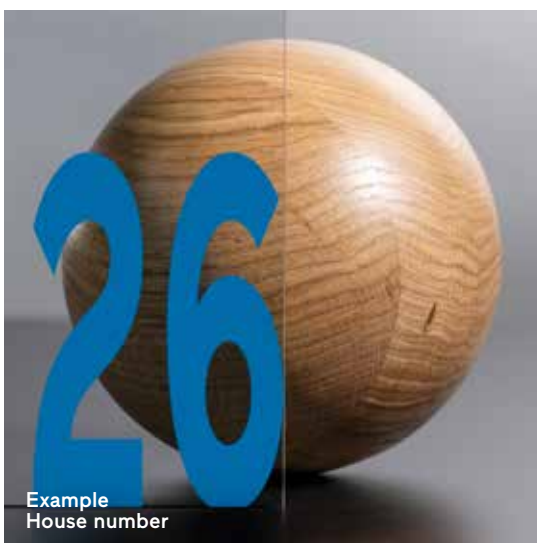
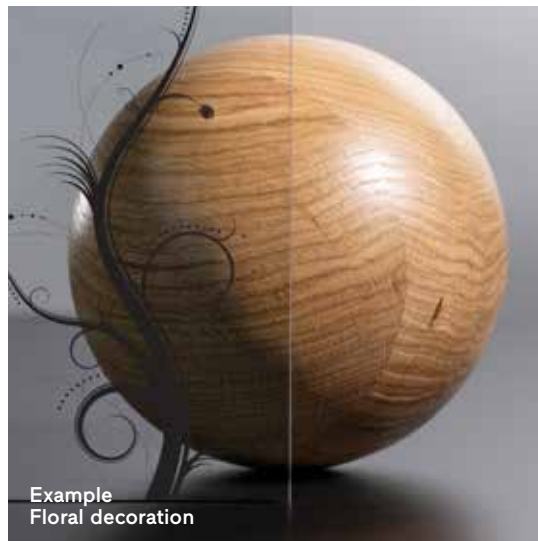
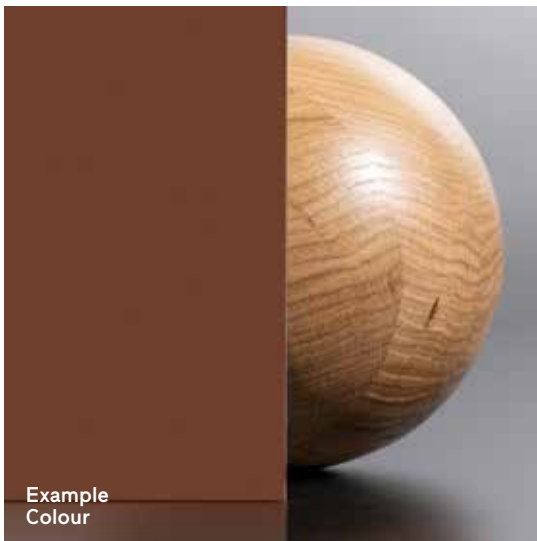
Glass enamelled on the rear face, here in G03 Khaki Grey, G04 Anthracite Grey and G01 Jet Black, is produced by Finstral to the highest standards in its own factory.



Colour/Finish → Enamelled glass, custom motif

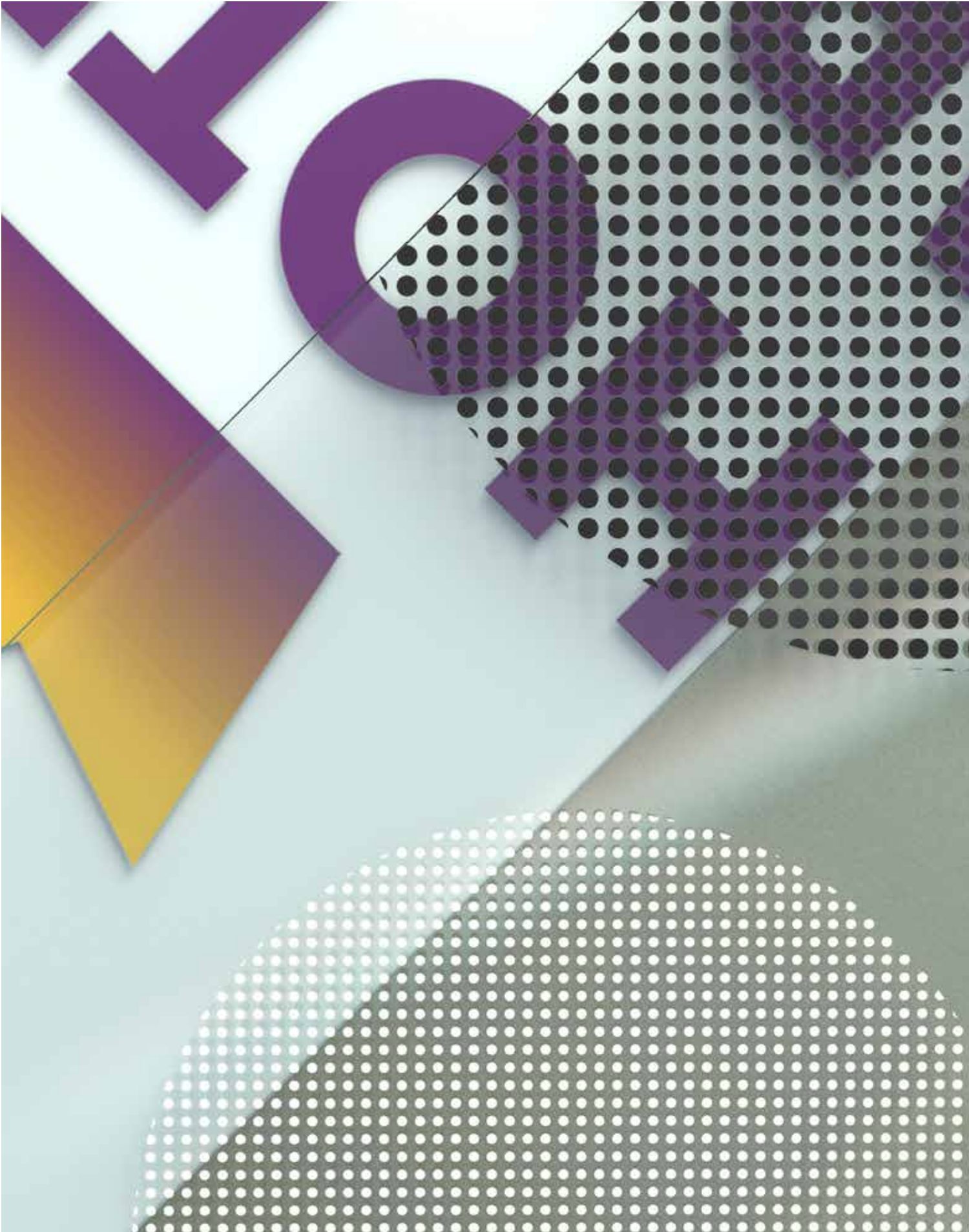
Customised glass printing.

Patterns, lettering, decoration: to add a personal touch to your door, you can order glass printed with a motif in one or more enamelled colours to match your own special ideas or designs. As our production facilities also include a glass printer and hardening furnace, this is yet another operation we perform in-house.



You can request a trial print from your Finstral partner prior to production of a custom motif.

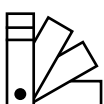
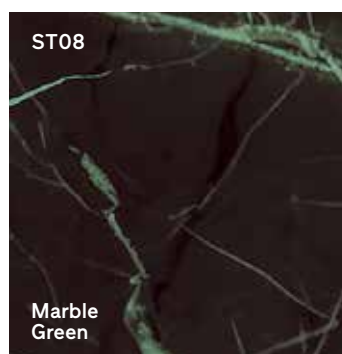
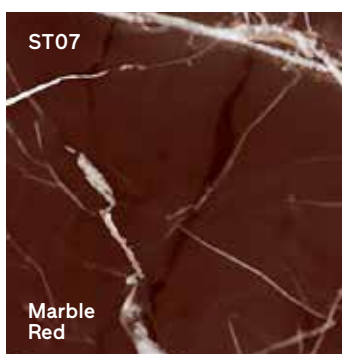
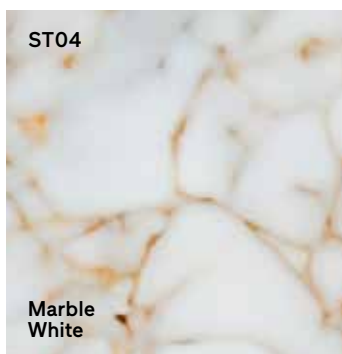
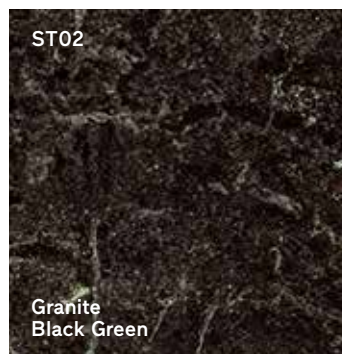
Custom-enamelled glass finishes: four-colour print with personalised logo, privacy function with dot pattern in enamel colours G02 Cream White and G01 Jet Black, and special colour gradient from G02 Cream White to G03 Khaki Grey.



Colour/Finish → Enamelled glass, stone decor

Classy look of natural stone.

To create an eye-catcher at the building entrance, you can design your front door with an imitation-stone finish on the exterior, interior or both. You can choose from nine decors that perfectly reproduce the stylish aesthetic of natural stone in authentic-looking grains and colour gradations. These glass finishes are likewise produced in-house in our own hardening furnace.



Colour representation similar.

Binding colour samples are available for viewing
at a Finstral Studio near you.

Finstral uses its own glass production facilities to reproduce top-quality, authentic-looking stone patterns – here in ST01 Granite Grains, ST03 Marble Light-Coloured and ST07 Marble Red.



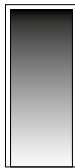
Colour/Finish

→ Enamelled glass, Collection_01

Custom design of your own motif.

The Collection_01 motifs provide a framework which you can use to make your own personal selection. Select the motif and the two full-strength colours of the gradient, and indicate whether you prefer crisp edges (“Sharp”) or soft transitions (“Blur”). For a door with a design unique to you.

Solo



Slim Framed



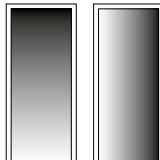
Strong Framed



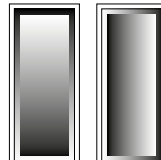
Based



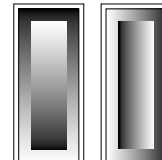
“Sharp”
versions



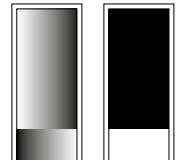
F401S F402S



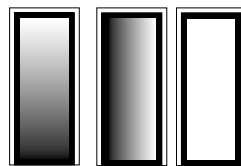
F403S F404S



F407S F408S



F411S F4110

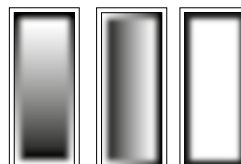


F405S F406S F4030



F409S F410S F4070

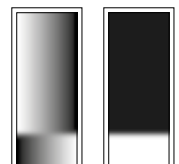
“Blur”
versions



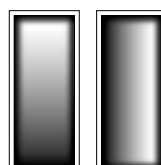
F403B F404B F4031



F407B F408B



F411B F4111

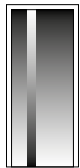


F405B F406B



F409B F410B F4071

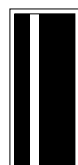
Divided



F412S



F413S



F4130

Lensed



F415S



F4150

Curved



F416S



F4160

Nearly Touching



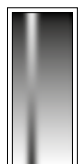
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F4170



F414S



F412B



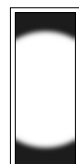
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F4131



F415B



F4151



F416B



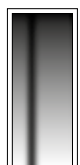
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F4171



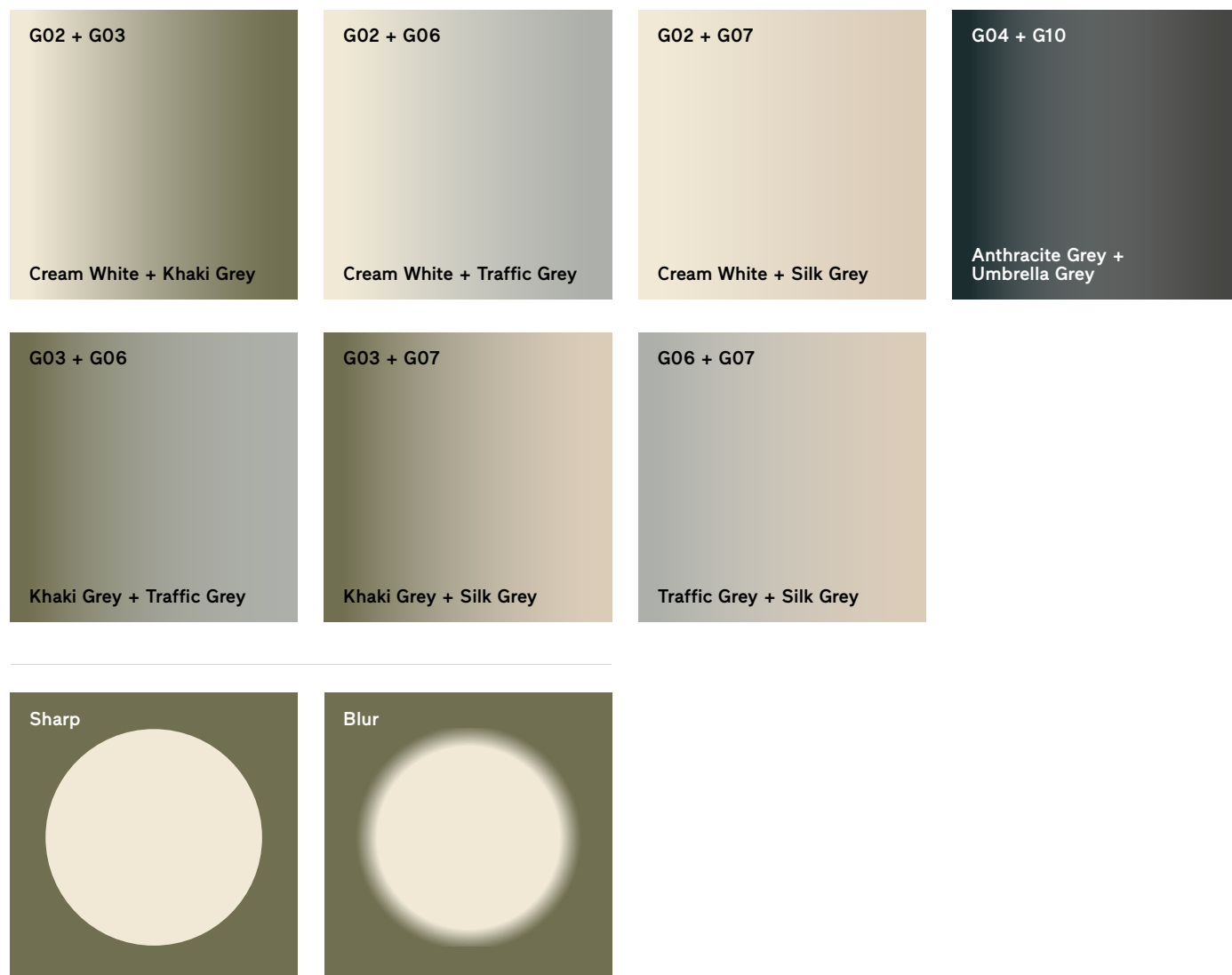
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Colour/Finish

→ Enamelled glass, Collection_01, colour gradients

Seven colour combinations, with sharp or soft gradient.

The colour gradients for our Collection_01 are printed in Finstral full-strength colours. The colour combinations pictured here are suitable for this purpose. Models with two or more colour areas are produced in either “Sharp” or “Blur” versions.



You can request a trial print from your Finstral partner prior to production of the desired colour gradient.

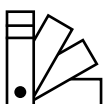
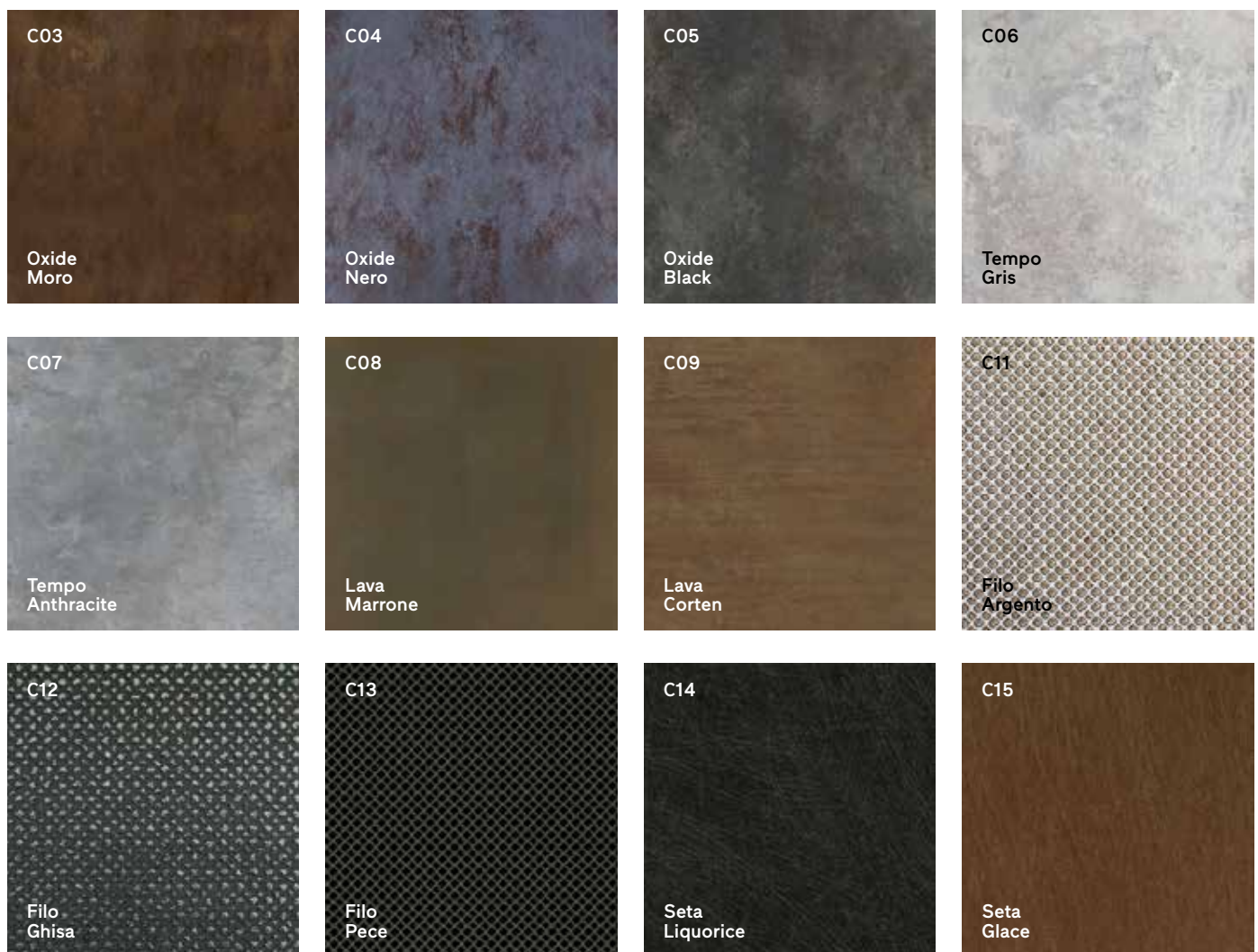
Gradient from G10 Umbra Grey to G04 Anthracite Grey, from G03 Khaki Grey to G07 Silk Grey, and from G02 Cream White to G07 Silk Grey.



Colour/Finish → Ceramics

Ceramic spells dynamic.

Oxide, Tempo, Lava, Filo, Seta: even the names of our colour ranges reflect their different characters. The multi-layer baking process used for the ceramic colours creates a natural-looking finish with a fascinating depth, pleasantly rough feel and an appearance that shifts with the changing light conditions.



Colour representation similar.

Binding colour samples are available from your specialist consultant or at finstral.com/samples

The high-quality ceramics, such as the variants C03 Oxide Moro and C04 Oxide Nero pictured here, captivate with their fascinating play of light and rough feel.



Colour/Finish → Reliefs, glazing bars and rails

Variety to suit your preferences.

Finstral offers you a wealth of options to help you shape the appearance of your front door: you can choose from a range of attached frames, glazing bars, rails, muntins, routings and stainless-steel-look inlays.



Traditional look: the flattened infill panel, here enclosed by an attached colour frame, is combined with small glass panes divided by glazing bars.

FIN-Door Step Frame – Step Frame uPVC-uPVC, model C5.3 in 27 Pearl White satin finish and 46 Grey satin finish, lever handle set 586 in M113 Pearl White matt.



The door leaf frame can be more or less freely subdivided by glazing bars, rails and muntins.

FIN-Door Flat Frame – Step Frame aluminium-aluminium, model 720 in 893 Sablé Anthracite Grey, division pattern 31, lever handle set 582 in 893 Sablé Anthracite Grey.



The geometric interplay between horizontally and vertically arranged, stainless-steel-look inlays of varying width lends the door a contemporary, rectilinear character.

FIN-Door Step Planar – Step Planar aluminium-aluminium, model 23 in F45 White satin finish fine texture with stainless-steel inlays, exterior push handle 323 in stainless steel, interior lever handle 577 clear anodised.



Single-leaf door with two sidepanels, FIN-Door Flat Frame – Step Frame aluminium-aluminium, model 720 with division pattern 09 in M905 Jet Black matt and bar handle 439 also in M905 Jet Black matt.

Colour/Finish → Division patterns

Division patterns for model 720

Selection of division patterns
Numerous models are available for selection.



60



69



09



07



RU5



794

Example
Division pattern 722
Freely selectable glazing bar arrangement



Example
Division pattern 31
Variable glazing bars

Internal
9 mmInternal
18 mmInternal
26 mmAttached
ClassicAttached
StyleAttached
Ferro

Please contact us when selecting your customised division pattern.



Midrails
Providing for genuine
subdivision of leaf frame



Glazing bars
Attached glazing bars



Single-leaf door, FIN-Door Step Frame – Step Frame aluminium-uPVC, model RU5 in F45
White satin finish fine texture, lever handle 584 in M905 Jet Black matt.

Colour/Finish → Infill panels

Always in character with the overall building composition.

All Finstral infill panels offer good thermal insulation, achieving top values of $U_p 0.6 \text{ W/m}^2\text{K}$.

More information can be found under [Centre → Insulation → Heat/Cold](#)

Extra-high noise protection of up to 42 dB is achievable with our sound-insulated models.

More information can be found under [Centre → Insulation → Noise](#)

To meet enhanced security requirements, infill panels with special security features are also available.

More information can be found under [Exterior → Protection → Burglary](#)

Smooth infill panels.

uPVC

42



White
embossed

Aluminium

658



Green

Glass

G03



Khaki
Grey

Ceramics

C04



Oxide
Nero

Infill panels with relief: uPVC or aluminium, flattened.



Classic



Style



with rounded
recess

Infill panels with relief: uPVC or aluminium, grooved.



horizontal



vertical



diagonal



Single-leaf door, FIN-Door Step Frame – Step Frame uPVC-uPVC, model RU5 in 45 White satin finish, lever handle 584 in M905 Jet Black matt.

The front door is every building's calling card. That is why Orsola Zannier always integrates it into the overall design concept for the entrance area. The architect and owner of a practice in Lugano, Switzerland, builds modern houses that mirror the lifestyle of their inhabitants.



Architect Orsola Zannier owns a studio in Lugano. For the CAUCO residential scheme, built in 2020, she chose a simple, rectilinear design.

“It all starts with the door.”

Less is more.

Orsola Zannier sees herself less as a designer than as a planner. And as a minimalist – even though this strict definition fails to do her justice: she is forever on the lookout for fluidity, for harmony between surfaces and spaces. She matches the interior and exterior, paying special attention to the light. “I don’t adhere to any particular architectural style,” she explains, “and I adopt an individual approach for each project.” White is a recurrent theme in her work along with natural materials, such as untreated wood and metal. “I’m quite simply no good at using colours,” she openly admits, and adds: “The material must reveal its essence.” Metal, in particular, runs like a common thread through her projects, which nearly always feature Finstral aluminium doors and windows.

Houses to live in.

What Orsola Zannier most enjoys is refurbishing residential buildings for private customers: “Nothing is more sustainable than conserving and renovating existing properties,” the architect points out. “Old houses, modern-day clarity and metal are a perfect match!” When she talks about old houses, she is referring less to the building fabric or fit-out than to the actual building concept. She consequently sees her task as that of remodelling the interior and trying to adapt it to the lifestyle of the relevant occupants.

Opening the door to minimalism.

"The front door conveys a first impression. It creates the initial contact with a building and reads as a distinct, self-contained element." Orsola Zannier tends to opt for smooth, flush-fitted doors with concealed hinges – combining simplicity with elegance.

Yet, to achieve a genuine balance between the interior and exterior, a house needs to be viewed as a whole: "All the openings in the building façade must act together to create a harmonious composition. That is why I prefer the no-frills design of Finstral doors – this perfectly matches the windows."

Indeed, matching things with each other is one of the key priorities for the Lugano architect on her projects. "Before I commence the design work for a building, I take a close look at the context in order to understand it in its entirety. This enables me to show it to its best advantage and ensure that it blends harmoniously with its surroundings," she elucidates.

Two houses, two sisters: the CAUCO project.

And it was, in fact, the unusual context that persuaded Orsola Zannier to tackle a scheme for two twin houses in the hills around the village of Cauco in the Swiss Canton of Graubünden. The at times harsh natural environment prompted the decision to locate the entrances at the side and design them as protective niches to keep out the wind and rain. The plain front doors are fitted with a motorised lock with finger scan, thereby offering maximum user comfort. Two further doors link the plantroom – which adopts the external guise of a wooden shed – with the northern and southern houses. Full-height windows accentuate the sobriety of the architecture and offer a fitting framework for the alpine scenery. With their crisp lines, pitched roofs and white render, the two houses bear a close resemblance on the outside.

At the same time, Orsola Zannier has successfully personalised the interior by introducing minor variations – also to the doors and windows – to help residents identify with the spatial configuration and fit-out.

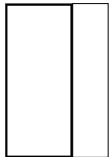
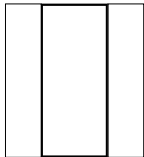
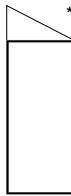
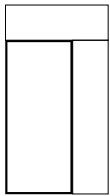
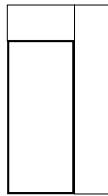
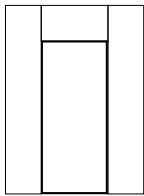
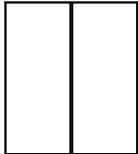
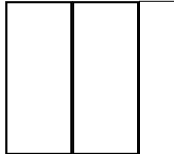
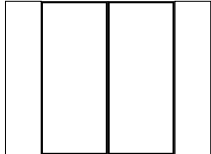
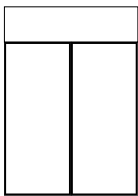
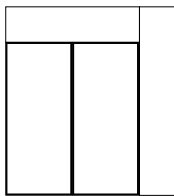
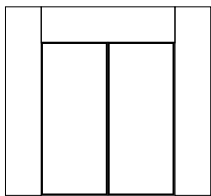
Plain appearance coupled with user comfort: the Finstral front door blends perfectly with the minimalist architecture.



Shape → Configuration

Giving shape to ideas.

Shape is where everything begins. Whether you are looking for a simple single-leaf door or a double-leaf door with fanlight, Finstral offers you complete freedom. This is thanks to our modular design principle that makes (almost) all functional and aesthetic fitting options combinable with everything else.

	Without sidepanel	One sidepanel	Two sidepanels
Single-leaf			
Single-leaf with fanlight	  	 	
* Special fanlight shapes possible			
Double-leaf			
Double-leaf with fanlight			



All of a piece.

Doors with overpanels or double-leaf doors can be manufactured with matching infill panels that make them appear longer or wider.

Plinth.

As an alternative to the traditional plinth (right), the sidepanel can be designed with frame-covering glass at the bottom – the Nova plinth (left).



Single-leaf door with sidepanel, FIN-Door Step Planar – Step Planar aluminium-aluminium, model 01 in B703 Anthracite Metallic satin finish, bar handle 438 in stainless steel.



Shape

→ Transition from frame to leaf

Flush or stepped.

How the leaf is positioned in the frame determines the door's appearance – specifically, whether it takes on a more contemporary or a more classical look.

Transition from frame to leaf Exterior

Flat

Flush elevation
with modern, continuous transition
from frame to leaf.

Step

Offset elevation
with traditional, stepped transition
from frame to leaf.

Door leaf shape

Planar

Modern-look door
leaf with continuous
surface.



Frame

Traditional-look
door leaf with step
between leaf frame
and leaf infill.



Transition from frame to leaf Interior

Flat

Flush elevation
with modern, continuous transition
from frame to leaf.

Step

Offset elevation
with traditional, stepped transition
from frame to leaf.



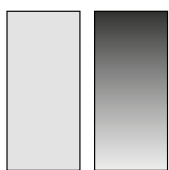
Possible combinations

Exterior	Interior
Flat Planar	- Flat Planar
Flat Planar	- Step Planar
Step Planar	- Flat Planar
Step Planar	- Step Planar
Step Planar	- Flat Frame
Step Planar	- Step Frame
Flat Frame	- Flat Frame
Flat Frame	- Step Frame
Step Frame	- Step Frame

Shape → Leaf models

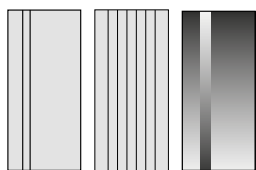
Smooth

From page 52



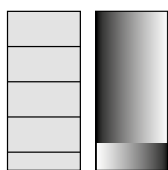
Vertical divisions

From page 58



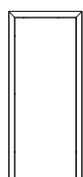
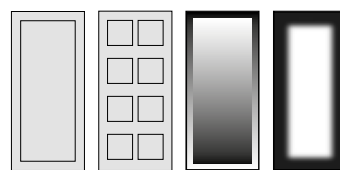
Horizontal divisions

From page 64

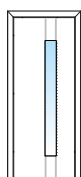


Symmetric rectangles

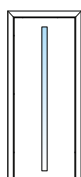
From page 68



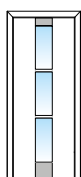
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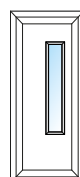
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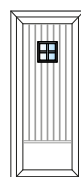
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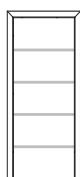
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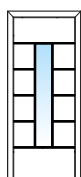
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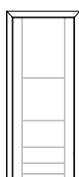
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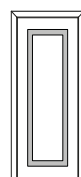
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62



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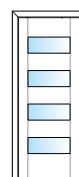
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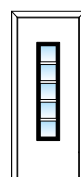
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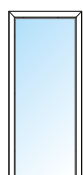
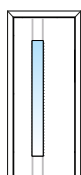
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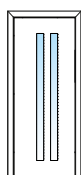
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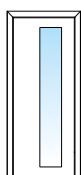
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L01/L02/
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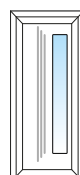
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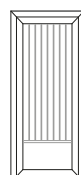
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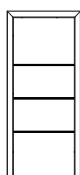
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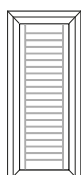
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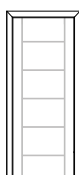
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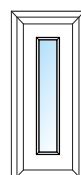
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92



116



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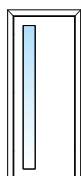
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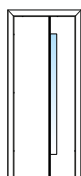
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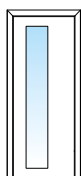
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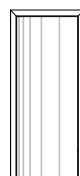
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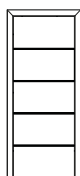
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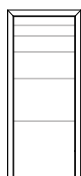
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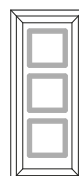
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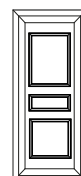
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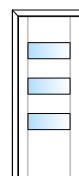
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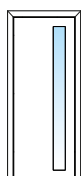
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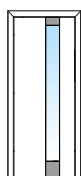
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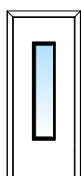
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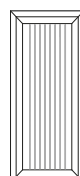
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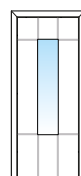
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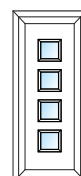
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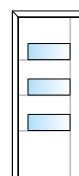
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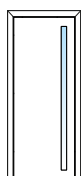
C5.3



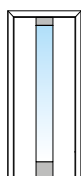
18.1



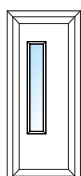
103



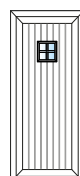
48



104



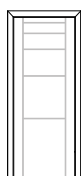
21.1



25.0



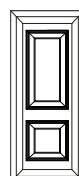
23



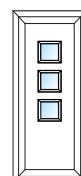
113



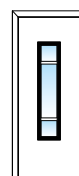
63



C5.0



22.1



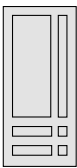
118

What should your front door look like?

To simplify things for you, we have grouped our 200-plus door models according to their graphical features. This is because you will probably recognise what look is most appealing to you. Selecting the material, colour and detailing of your front door will then be the second step.

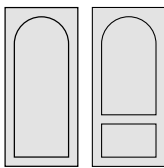
Asymmetric rectangles

From page 76



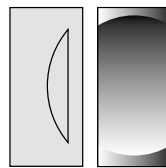
Round arch

From page 80



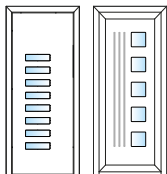
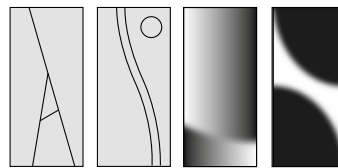
Curved

From page 86

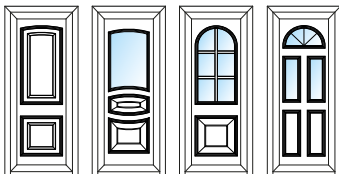


Freestyle

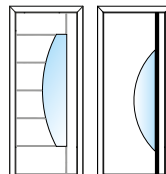
From page 90



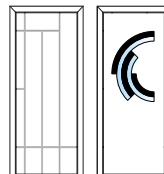
41 98



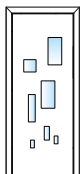
2.0 C27.1 C4.3 20.2



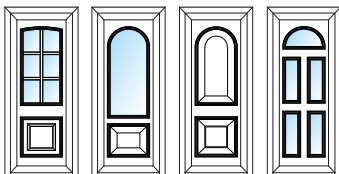
61 107



06 66



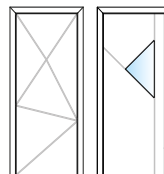
43



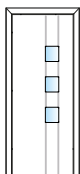
2.3 C11.1 C4.0 19.1



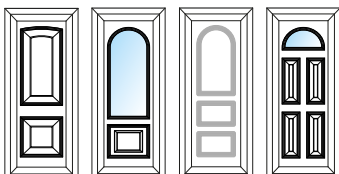
64



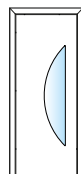
05 108



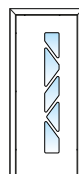
50-1



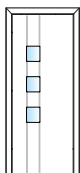
C2.0 11.1 87 C10.1



85



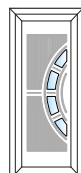
52



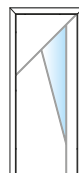
50-2



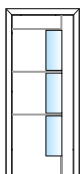
C2.1 C11.2 20.1 96



94



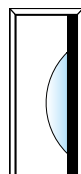
74



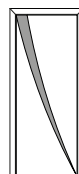
72



2.1 11.2 10.1



106



04

Shape → Smooth

Simple and characterful.

The modern styling concept for the door leaf, with its continuous surface, powerfully highlights the materiality.





Single-leaf door, FIN-Door Flat Planar – Flat Planar aluminium-aluminium, model 01 in LC32 Pale Bronze, bar handle 439 also in LC32 Pale Bronze.

Shape → Smooth



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

ST04

uPVC
Aluminium ← ↑
Wood
Glass ← ↑
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

F4XX

uPVC
Aluminium ← ↑
Wood
Glass ← ↑
Ceramics

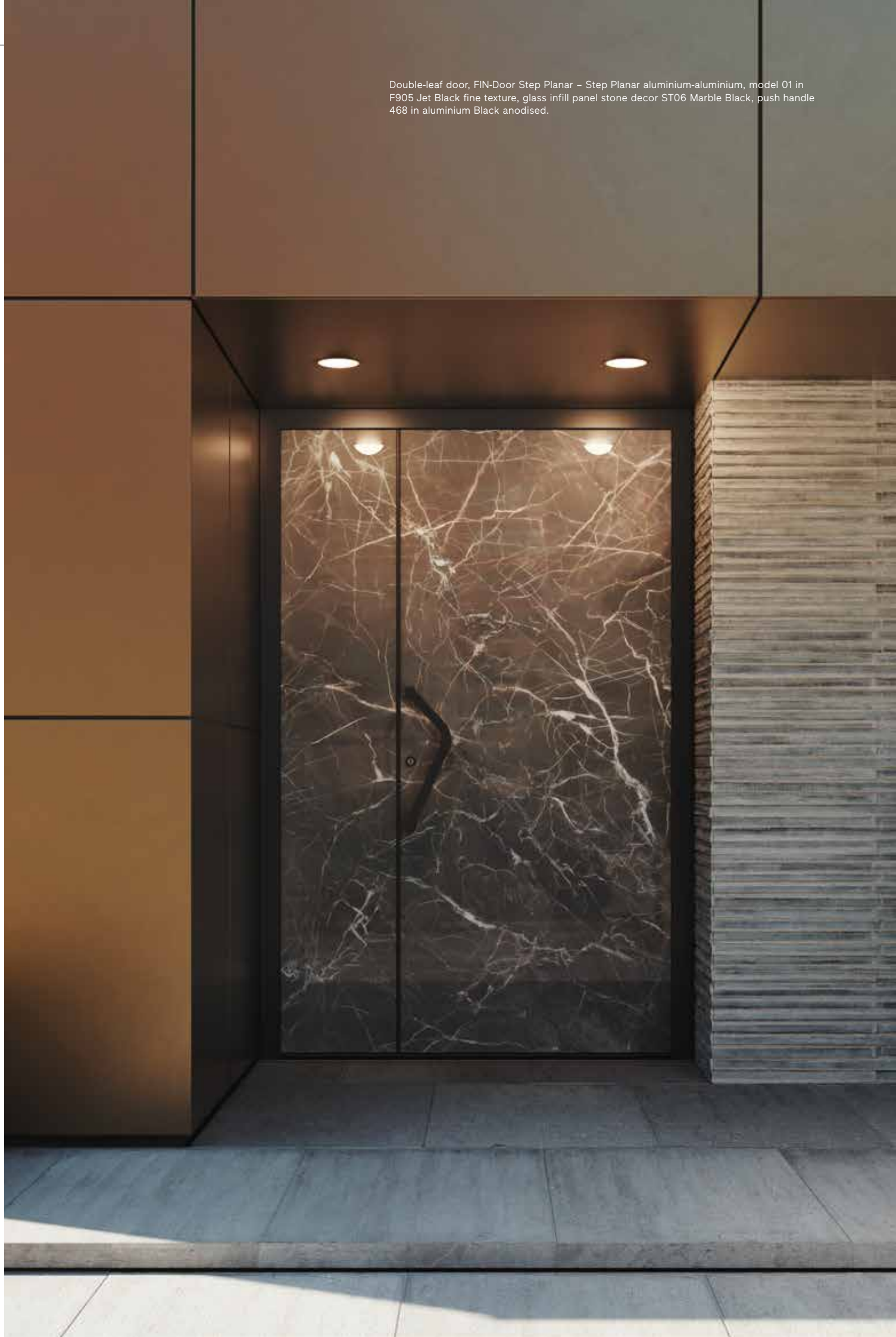


Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar ←
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

F4XX

uPVC
Aluminium ← ↑
Wood
Glass ← ↑
Ceramics

Double-leaf door, FIN-Door Step Planar – Step Planar aluminium-aluminium, model 01 in F905 Jet Black fine texture, glass infill panel stone decor ST06 Marble Black, push handle 468 in aluminium Black anodised.



Shape → Smooth



Door with edge enamelling

Door with aluminium facing
covering edge

Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar ←
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

L11

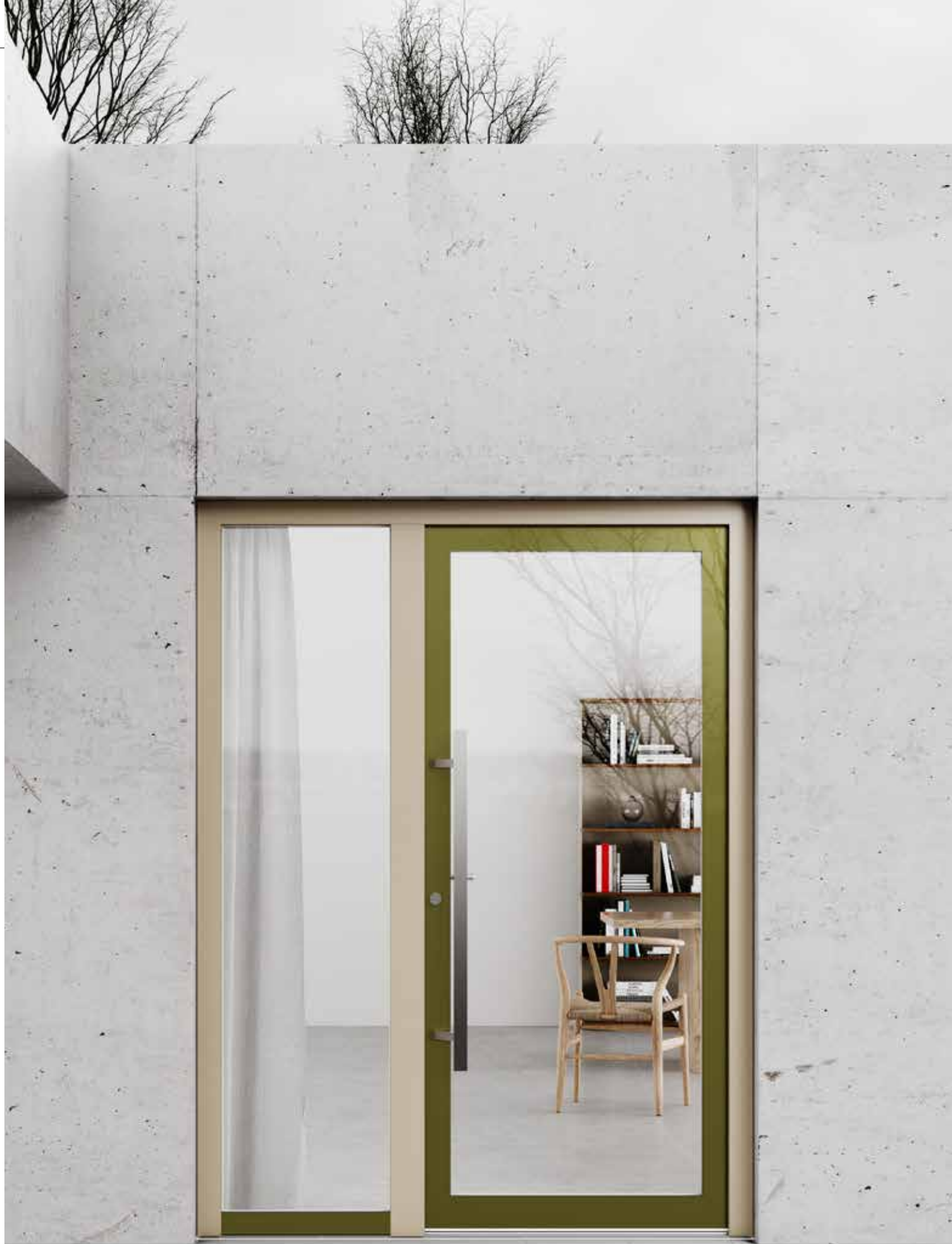
uPVC
Aluminium ← ↑
Wood
Glass ← ↑
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar ←
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

120

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Single-leaf door with sidepanel, FIN-Door Step Planar – Step Frame aluminium-uPVC, model L01 in 358 Gris, edge enamelling in G03 Khaki Grey and bar handle 312 in stainless steel. Sidepanel features glass-covered Nova plinth.

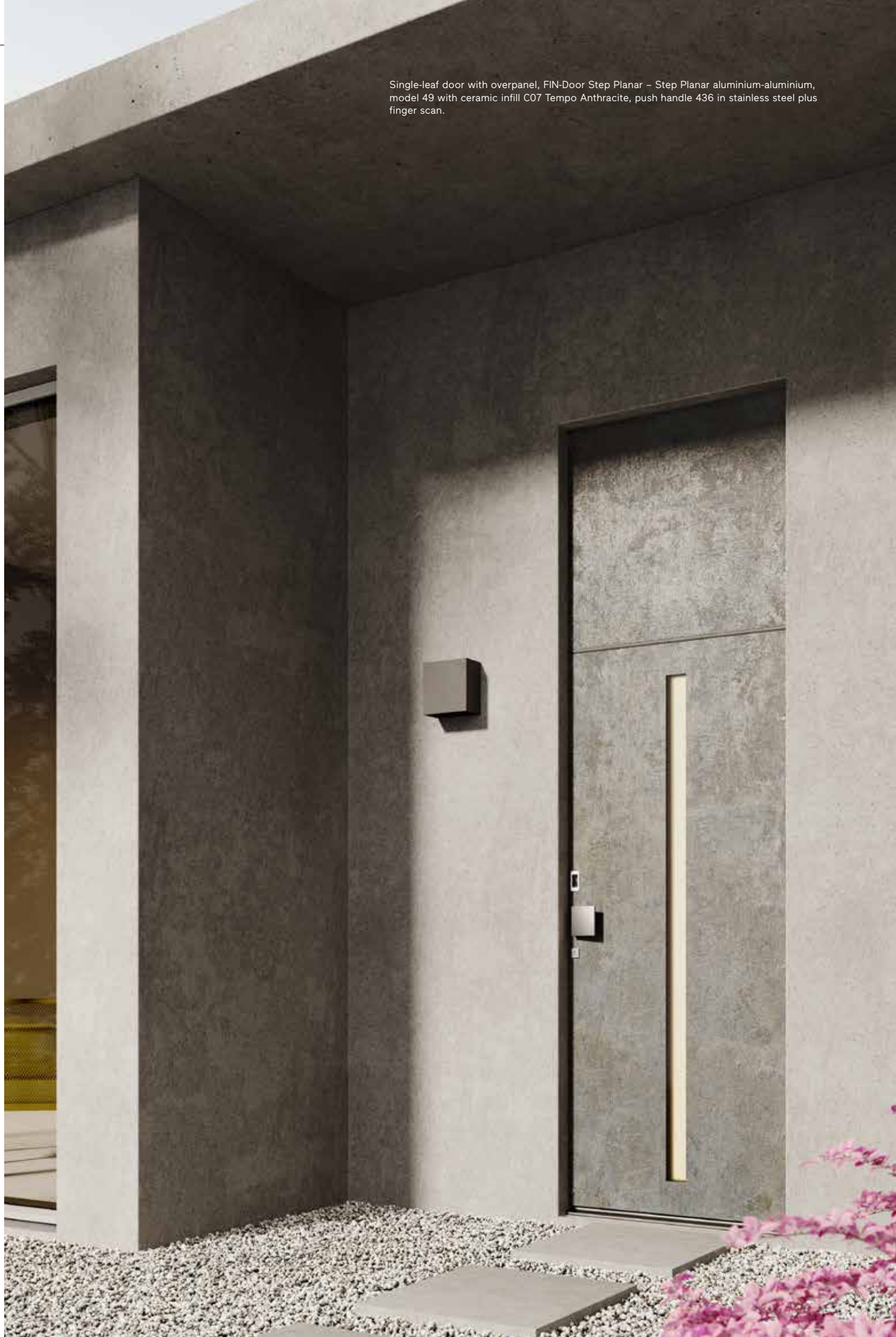
Shape → Vertical divisions

Vivid and dynamic.

You can fashion your door leaf with vertical shapes in the form of glass cut-outs, routings or stainless-steel-look inlays.



Single-leaf door with overpanel, FIN-Door Step Planar – Step Planar aluminium-aluminium, model 49 with ceramic infill C07 Tempo Anthracite, push handle 436 in stainless steel plus finger scan.



Shape → Vertical divisions

Here with glass cut-out on left of interior face.
As model 46-2 with glass cut-out on right of interior face.



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame ←
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

46-1

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics

Here with glass cut-out on right of interior face.
As model 47-1 with glass cut-out on left of interior face.



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame ←
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

47-2

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

58

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

105

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

48

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame ←
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

104

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics

Here with glass cut-out on left of interior face.
As model 112 with glass cut-out on right of interior face.



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame ←
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

111

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

45

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics

Shape → Vertical divisions

Here with glass cut-out on left of interior face.
As model 21.2 with glass cut-out on right of interior face.



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

21.1

uPVC ← ↑
Aluminium
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

44

uPVC
Aluminium ← ↑
Wood ↑
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame ←
Step Frame - Step Frame

97

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame ←
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

117

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics

As model 26.0 available with smooth inlay panel at bottom.



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

28.0

uPVC ↑
Aluminium ←
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

25.0

uPVC ↑
Aluminium ←
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame ←
Step Frame - Step Frame

Division pattern 09

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame ←
Step Frame - Step Frame

93

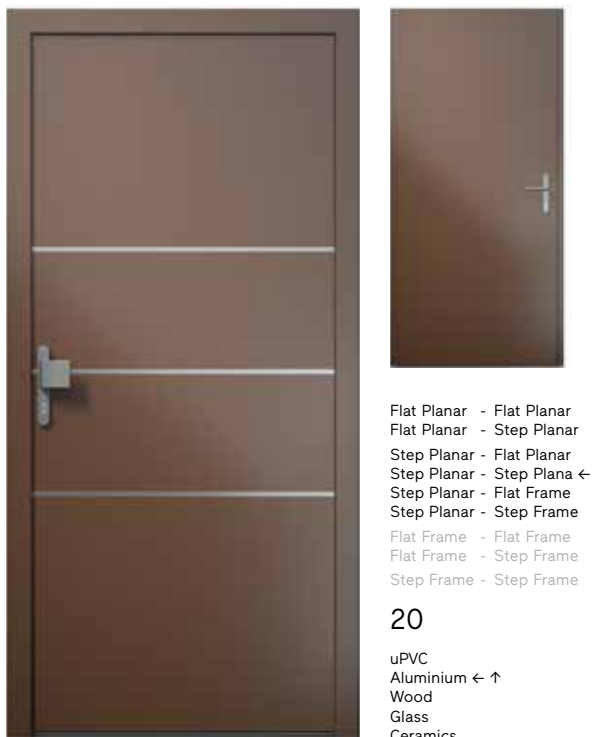
uPVC
Aluminium ← ↑
Wood
Glass
Ceramics

Shape

→ Horizontal divisions

Rectilinear and eloquent.

Numerous variations of horizontal forms – whether as glass cut-outs, enamellings, routings or stainless-steel-look inlays – add character to the door leaf.



Double-leaf door, FIN-Door Step Planar – Step Planar aluminium-aluminium, model 21 in M305 Wine Red matt, bar handle 492 in stainless steel.



Shape → Horizontal divisions



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame ←
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

23

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

62

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame ←
Step Frame - Step Frame

Division pattern 07

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

F4111

uPVC
Aluminium ← ↑
Wood
Glass ← ↑
Ceramics

As model 109 with vertically mirror-image routing pattern.



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame ←
Step Frame - Step Frame

92

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar ←
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

110

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics

As model 114 with vertically mirror-image routing pattern.



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame ←
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

116

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

113

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics

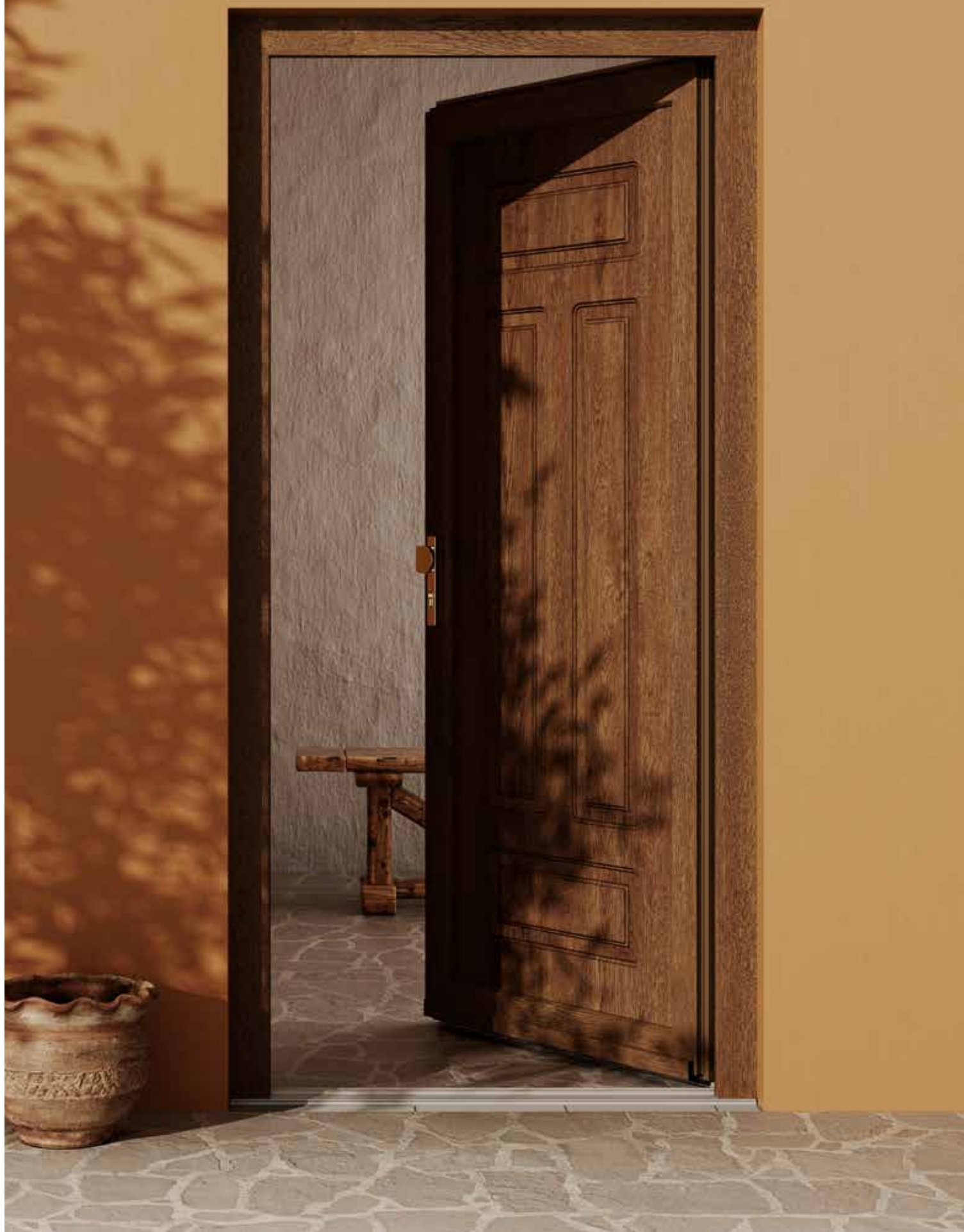
Shape → Symmetric rectangles

Big or small – clearly organised.

Symmetrically arranged rectangles add a distinctive structure to the appearance of the door. You can choose between glass cut-outs, enamelled glass, routings and attached frames.



Single-leaf door, FIN-Door Step Frame - Step Frame uPVC-uPVC, model 89 in 13 Castagno wood decor, handle 424 in brass.



Shape → Symmetric rectangles



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

118

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar ←
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

119

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

18.1

uPVC ↑
Aluminium ←
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

22.1

uPVC ↑
Aluminium ←
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar ←
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

02

uPVC
Aluminium ← ↑
Wood ↑
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

F4030

uPVC
Aluminium ← ↑
Wood
Glass ← ↑
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

14.1

uPVC ← ↑
Aluminium
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame ←
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

F408S

uPVC
Aluminium ← ↑
Wood
Glass ←
Ceramics

Shape

→ Symmetric rectangles



Flat Planar - Flat Planar
 Flat Planar - Step Planar ←
 Step Planar - Flat Planar
 Step Planar - Step Planar
 Step Planar - Flat Frame
 Step Planar - Step Frame
 Flat Frame - Flat Frame
 Flat Frame - Step Frame
 Step Frame - Step Frame

100

uPVC
 Aluminium ← ↑
 Wood
 Glass
 Ceramics



Flat Planar - Flat Planar
 Flat Planar - Step Planar ←
 Step Planar - Flat Planar
 Step Planar - Step Planar
 Step Planar - Flat Frame
 Step Planar - Step Frame
 Flat Frame - Flat Frame
 Flat Frame - Step Frame
 Step Frame - Step Frame

101

uPVC
 Aluminium ← ↑
 Wood
 Glass
 Ceramics



Flat Planar - Flat Planar
 Flat Planar - Step Planar
 Step Planar - Flat Planar
 Step Planar - Step Planar ←
 Step Planar - Flat Frame
 Step Planar - Step Frame
 Flat Frame - Flat Frame
 Flat Frame - Step Frame
 Step Frame - Step Frame

102

uPVC
 Aluminium ←
 Wood ↑
 Glass
 Ceramics



Flat Planar - Flat Planar
 Flat Planar - Step Planar ←
 Step Planar - Flat Planar
 Step Planar - Step Planar
 Step Planar - Flat Frame
 Step Planar - Step Frame
 Flat Frame - Flat Frame
 Flat Frame - Step Frame
 Step Frame - Step Frame

103

uPVC
 Aluminium ← ↑
 Wood ↑
 Glass
 Ceramics



Single-leaf door with sidepanel, FIN-Door Flat Planar – Step Planar aluminium-aluminium, model 103 in M744 Silk Grey matt, bar handle 323 in stainless steel, painted in M803 Clay Brown matt.

Shape → Symmetric rectangles



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame ←
Step Frame - Step Frame

Division pattern 722

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

54

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

63

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame ←
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

51

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

C5.3

uPVC ← ↑
Aluminium
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame ←
Step Frame - Step Frame

Division pattern 31

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics

As model C5.0 with flattened infill panel within two attached frames.



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

5.0

uPVC ← ↑
Aluminium
Wood
Glass
Ceramics

As model 17.0 without glass cut-out.



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

16.1

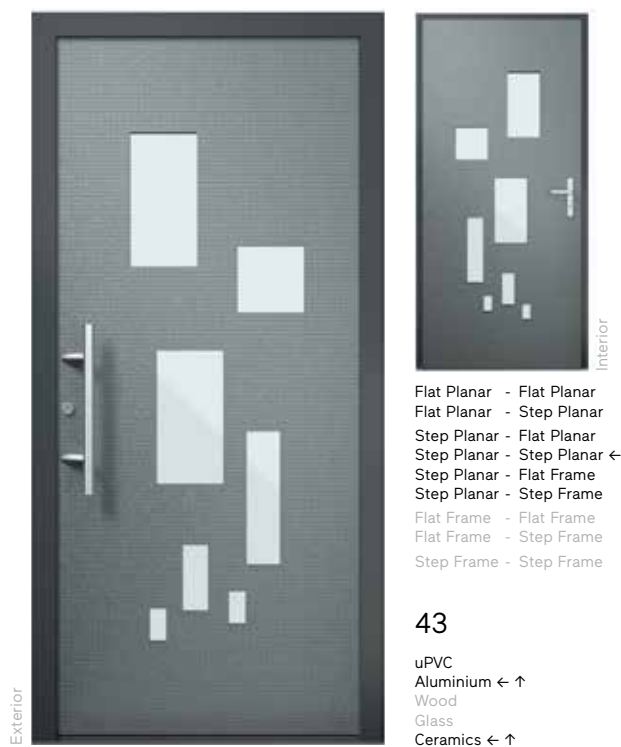
uPVC ↑
Aluminium ←
Wood
Glass
Ceramics

Shape

→ Asymmetric rectangles

Creative and expansive – setting focal points.

Glass cut-outs interact with routings to generate asymmetric rectangles on the door leaf surface.





Single-leaf door, FIN-Door Step Planar – Step Planar aluminium-aluminium, model 43 in 358
Gris with ceramic infill panel C06 Tempo Gris, bar handle 311 in stainless steel.

Shape

→ Asymmetric rectangles



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

50-1

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame ←
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

50-2

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics

Division pattern 722 can take on various arrangements: see page on division patterns.



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

41

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame ←
Step Frame - Step Frame

Division pattern 722

uPVC
Aluminium ← ↑
Wood
Glass →
Ceramics



Single-leaf door with overpanel, FIN-Door Step Planar – Step Planar aluminium-aluminium, model 41 in M515 Sky Blue matt, bar handle 438 in stainless steel, fitted in FIN-Vista Frameless window wall, all panes in Stopsol Superzero Grey reflective glass.

Shape → Round arch

Masterful and time-honoured.

These door models boast a round arch as their dominant feature. This can be designed with one or more glass cut-outs, with routings and attached frames.





Single-leaf door, FIN-Door Step Frame – Step Frame aluminium-uPVC, model 10.1 in 658 Green/F45 White satin finish fine texture, handle 424 in brass.

Shape → Round arch



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

20.1

uPVC ← ↑
Aluminium
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

20.2

uPVC ← ↑
Aluminium
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

C4.0

uPVC ↑
Aluminium ←
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

C4.3

uPVC ↑
Aluminium ←
Wood
Glass →
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

11.2

uPVC ↑
Aluminium ←
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

11.1

uPVC ↑
Aluminium ←
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

C11.2

uPVC ↑
Aluminium ←
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

C11.1

uPVC ↑
Aluminium ←
Wood
Glass →
Ceramics

Shape → Round arch



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

87

uPVC ← ↑
Aluminium
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

2.1

uPVC ← ↑
Aluminium
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame ←
Step Frame - Step Frame

96

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

C27.1

uPVC ← ↑
Aluminium
Wood
Glass →
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

2.0

uPVC ← ↑
Aluminium
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

2.3

uPVC ← ↑
Aluminium
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

C2.0

uPVC ← ↑
Aluminium
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame ←

C2.1

uPVC ← ↑
Aluminium
Wood
Glass →
Ceramics

Shape → Curved

Vibrant and welcoming.

Routings, glass cut-outs, enamellings and stainless-steel-look inlays can be freely selected to fashion the curved shape on the door leaf.



Exterior



Interior

Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar ←
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

85

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

106

uPVC
Aluminium ← ↑
Wood ↑
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar ←
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

107

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Single-leaf door, FIN-Door Step Planar – Step Planar aluminium-aluminium, model 85 in M517 Traffic Blue matt with bar handle 438 in M118 Zinc Yellow matt.

Shape → Curved



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame ←
Step Frame - Step Frame

94

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame ←
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

64

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar ←
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

61

uPVC
Aluminium ← ↑
Wood ↑
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar ←
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

F4150

uPVC
Aluminium ← ↑
Wood
Glass ← ↑
Ceramics

Single-leaf door, FIN-Door Flat Planar – Step Planar aluminium-aluminium, model F415B in F91 Pebble Grey fine texture, glass infill panel with colour gradient G02 Cream White – G03 Khaki Grey, with handle strip plus finger scan and motorised lock without cylinder.



Shape → Freestyle

Playful and customised.

By using freestyle forms, you can lend your door leaf a distinctive flair. You can orchestrate glass cut-outs, glass enamellings, routings or stainless-steel-look inlays in line with your own personal taste.



Single-leaf door, FIN-Door Step Planar – Step Planar aluminium-aluminium, model 05 in 894 Sablé Dark Grey, push handle 485 in stainless steel – frame concealed behind reveal.



Shape → Freestyle



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame ←
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

52

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics ← ↑



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

06

uPVC
Aluminium ← ↑
Wood ↑
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

66

uPVC
Aluminium ← ↑
Wood
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

04

uPVC
Aluminium ← ↑
Wood ↑
Glass
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame ←
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

F4170

uPVC
Aluminium ← ↑
Wood
Glass ← ↑
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

F4171

uPVC
Aluminium ← ↑
Wood
Glass ← ↑
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame ←
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

F416B

uPVC
Aluminium ← ↑
Wood
Glass ← ↑
Ceramics



Flat Planar - Flat Planar
Flat Planar - Step Planar ←
Step Planar - Flat Planar
Step Planar - Step Planar
Step Planar - Flat Frame
Step Planar - Step Frame
Flat Frame - Flat Frame
Flat Frame - Step Frame
Step Frame - Step Frame

F416S

uPVC
Aluminium ← ↑
Wood
Glass ← ↑
Ceramics

Handle

→ Lever handle

Always a delight to the touch.

Timeless and practical, lever handles suit both a traditional and a contemporary look. Finstral offers them in stainless steel, aluminium and brass as well as, in some cases, full-strength or special effect colours. Pure brass handles are always provided with a PVD coating that vouches for a long-lasting, visually flawless finish.



581

Series 11

Aluminium

Clear anodised ↑
Black anodised
Full-strength/special effect colours¹



582

Series 12

Aluminium

Clear anodised ↑
Black anodised
Full-strength/special effect colours¹

Stainless steel
Colourless



583

Series 13

Aluminium

Clear anodised ↑
Black anodised
Full-strength/special effect colours¹

Stainless steel
Colourless



584

Series 14

Aluminium

Clear anodised ↑
Black anodised
Full-strength/special effect colours¹



585

Series 15

Aluminium

Clear anodised ↑
Black anodised
Full-strength/special effect colours¹

Stainless steel
Colourless



586

Series 16

Aluminium

Clear anodised ↑
Black anodised
Full-strength/special effect colours¹

¹ Wood decor colours are not possible.

In addition to the standard basic colours, the lever handles shown on the next two pages are also available in all aluminium full-strength and special effect colours offered by Finstral, as exemplified by this handle 584 in LC32 Pale Bronze.



Handle

→ Lever handle



404

Aluminium
White
Brown
Clear anodised ↑



425

Aluminium
Clear anodised ↑

Brass
Clear coated



401

Aluminium
White
Brown
Clear anodised ↑



450 + 451*

Aluminium
White
Brown
Clear anodised ↑
Anodised stainless steel



421 + 420**

Stainless steel
Colourless ↑



422**

Stainless steel
Colourless ↑



426

Aluminium
Clear anodised ↑

Brass
Clear coated



452

Aluminium
White
Brown
Clear anodised ↑
Anodised stainless steel

Brass
Clear coated



406 + 408**

Aluminium
Clear anodised ↑



501 + 507**

Aluminium
White painted
Pearl White painted
Clear anodised

Stainless steel
Colourless ↑
Brass-coloured glossy



405 + 407**

Aluminium
Clear anodised ↑



423

Brass
Clear coated ↑
Black oxide-coated



424

Brass
Clear coated ↑
Black oxide-coated

Handle

→ Push handle

A hearty welcome.

Whether knob-shaped, curved or rectangular, Finstral's solidly fixed push handles always offer a firm handhold. You can choose from a wide selection of stainless steel, aluminium and brass models. Pure brass handles are always provided with a PVD coating that vouches for a long-lasting, visually flawless finish. If required, we can also fit push handles on both sides of our doors.



506

Stainless steel
Colourless ↑



436

Stainless steel
Colourless ↑

Distance between centres
70 mm



455

Stainless steel
Colourless ↑

Distance between centres
150 mm



479

Stainless steel
Colourless ↑

Distance between centres
300 mm



437

Stainless steel
Colourless ↑

Distance between centres
350 mm



488

Stainless steel
Colourless ↑

Distance between centres
300 mm



469

Aluminium
Clear anodised ↑
Black anodised

Distance between centres
450 mm



468

Aluminium
Clear anodised ↑
Black anodised

Distance between centres
450 mm



485

Stainless steel
Colourless ↑

Distance between centres
300 mm



486

Stainless steel
Colourless ↑

Distance between centres
300 mm



487

Stainless steel
Colourless ↑

Distance between centres
300 mm



473

Stainless steel
Colourless ↑

Distance between centres
350 mm



471

Stainless steel
Colourless ↑

Distance between centres
350 mm

Handle

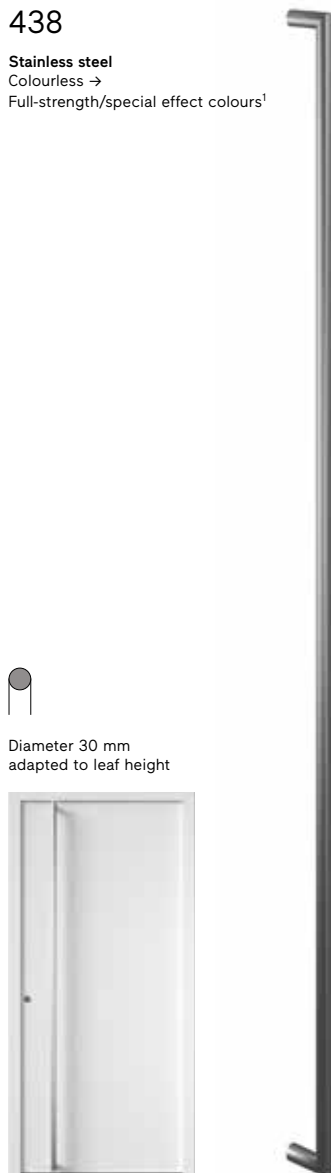
→ Bar handle

Anything bar standard.

Bar handles not only look good, they also combine stability with ease of use. After all, a long handle is within easy reach for everyone. With practically all models, you have a choice of different lengths. All our bar handles are available with a stainless steel finish. For some, we additionally offer a wide range of full-strength or special effect colours. If required, we can also fit bar handles on both sides of our doors.

438

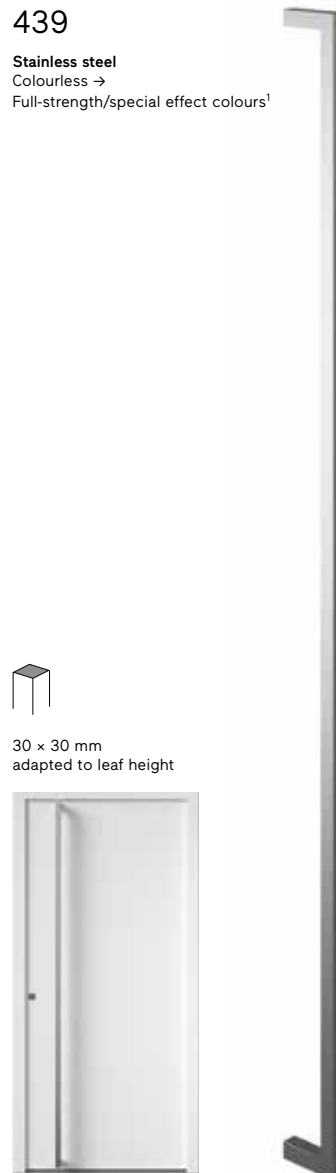
Stainless steel
Colourless →
Full-strength/special effect colours¹




Diameter 30 mm
adapted to leaf height

439

Stainless steel
Colourless →
Full-strength/special effect colours¹




30 × 30 mm
adapted to leaf height

¹ Wood decor colours are not possible.



Single-leaf door, FIN-Door Flat Planar – Step Planar aluminium-aluminium, model 04 in M409 Pastel Violet matt with frame in M905 Jet Black matt, bar handle 311 in M307 Black Red matt.

Handle → Bar handle

Stainless steel
Colourless ↓
Full-strength/special effect colours¹



35 × 35 mm
Handle height not adapted to leaf height.



320

Handle length 500 mm

321

Handle length 600 mm

322

Handle length 1000 mm

323

Handle length 1800 mm

¹ Wood decor colours are not possible.

Stainless steel
Colourless ↓
Full-strength/special effect colours¹



40 × 15 mm
Handle height not adapted to leaf height.



310
Handle length 500 mm



311
Handle length 600 mm



312
Handle length 1000 mm



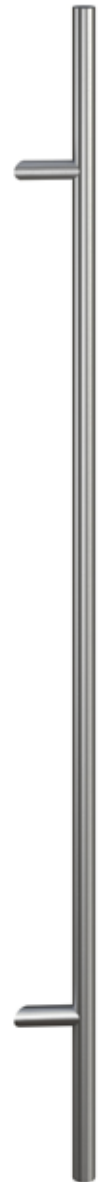
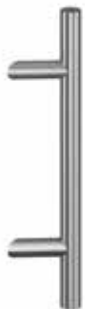
313
Handle length 1800 mm

Handle → Bar handle

Stainless steel
Colourless ↓
Full-strength/special effect colours¹



Diameter 30 mm
Handle height not adapted to leaf height.



490

Handle length 500 mm



491

Handle length 600 mm



492

Handle length 1000 mm



493

Handle length 1800 mm

¹ Wood decor colours are not possible.



Stainless steel
Colourless ↓



Diameter 35 mm
Distance between centres/height 1050 mm
Distance between centres/width 220 mm



494

Handle length individually
selectable, e.g. same as leaf height



453

Handle length 1000 mm

Handle → Bar handle

Stainless steel
Colourless ↓
Supports in grey painted aluminium



23 × 36 mm



475

Handle length 450 mm



476

Handle length 600 mm



477

Handle length 900 mm



478

Handle length 1800 mm

→ Handle strip

Aluminium
Painted in frame colour ↓



Grip depth 14 mm

Colour-matched with the frame, the discreet handle strip blends unobtrusively with the door.



70515
Adapted to leaf height



Exterior → Protection
Keeping out
what shouldn't get in.



Burglary
Sun/Heat
Privacy



Burglary

→ Standard fittings

All-round security.

With Finstral you are always on the safe side. Thanks to everything from the robust frame construction and high-quality cylinders to the secured hinges. Even our base models meet the highest standards.



Swing bolt hardware.

Every Finstral door is equipped with two swing bolt fittings. In the locked position, the 4 cm large, solid-steel, hook-shaped bolts firmly engage with the door frame to prevent the door from being prised open.



Secured hinges.

The hinges, i.e. the components on which the leaf is hung in the frame, consist of three parts. This prevents the door from being lifted upwards off the frame.



Cylinder.

Finstral incorporates only high-quality cylinders that are very hard to break into. They are fitted so as to protrude no more than 2 mm from the door. This protects against attack by hammer, pliers or other tools.

→ Locking cylinder



**Standard
cylinder**



**Security
level 1 cylinder**



**Security
level 2 cylinder**

Protection against lock bumping, a lock picking technique where a specially made "bump key" is inserted into the locking cylinder

•

•

•

Emergency and danger function: the door lock can still be operated from the outside even with a key inserted on the inside

•

•

•

Intuitive operation thanks to reversible key that cannot be inserted the wrong way round

•

•

Keyed-alike cylinders: several locks can be operated with same key

•

•

Cylinder design for master key function possible

•

Enhanced key copy protection thanks to precision mechanical locking mechanism

•

•

Key related security to DIN EN 1303

Grade 4
30,000+ differs

Grade 6
100,000+ differs

Grade 6
200,000+ differs

Classification to DIN 18252

Class 70

Class 80-BS
With drill protection

Class 82-BZ
With drill and pull protection

Attack resistance to
DIN EN 1303

Grade 0
Not tested

Grade 0
Not tested

Grade 2
Tested resistance to drilling,
attack by chisel or attack by
twisting



Cylinder with knob

As an optional extra, you can have the locking cylinder fitted with a turn knob on the inside. This allows the door to be locked and unlocked without a key.



Third-party manufacturer

Our doors can also be fitted with profile cylinders of other manufacturers.

Burglary → Certified security

All requirements met and many certified.

Finstral doors offer a high standard of burglary protection. Many door types have also been laboratory tested under real-life conditions to RC 2 specifications. All the basic models – hardware, frames and leaves – meet RC 2 requirements. Given the manifold possible combinations of designs and materials, we offer RC 2 certification only for a selected range.

What is RC 2?

RC 2 stands for Resistance Class 2. Under EN 1627, it represents one of the seven classes for the resistance of windows and front doors to attempted burglary. RC 2 doors can withstand an attempted break-in by an occasional criminal using physical force and simple tools, e.g. screwdriver, pliers and wedges, for a continuous period of at least three minutes.

RC 2 requirements:

- It must be impossible to prise away locked, e.g. swing bolt, hardware
- It must be impossible to tamper with the locking mechanism via the door handles/cylinders; this must be prevented e.g. by secured locking cylinders
- It must be impossible to break out the door's panes and infill panels, e.g. by incorporating class P4A glazing

Finstral offers all the technical features needed to meet the requirements for RC 2 certification. Though not required by RC 2, all Finstral doors are provided as standard with additional burglar-resistant design features, e.g. a middle gasket and bonded panes.

What are P4A and P5A?

Security glazing and infill panels are tested for their smash and burglar resistance. For class P4A, a 110 × 90 cm component must withstand the three-fold (for P5A: nine-fold) impact of a 4.11 kg steel ball with a 10 cm diameter from a height of 9 m. The film thickness is 1.52 mm for resistance class P4A and 2.28 mm for class P5A.

What is VdS?

VdS (German Association of Property Insurers) approval is a quality label for security products. It testifies to the functional and operational reliability of intruder alarm, CCTV surveillance and access control systems, of safes, high-security locks and the like. The greater the risks, the higher the resistance level and corresponding VdS security classification should be. Our magnetic contact is optionally available with Class B VdS approval.

→ Security packages

If you want to meet RC 2 requirements.

Finstral fits all its front doors as standard with five-point security hardware that includes at least two locking points with lever-out protection. On request, we also offer RC 2-certified security fittings. This security package is available for all front doors. Excepted from this are outward-opening doors, which are not RC 2-certified.

Security package for RC 2



Multi-point security hardware



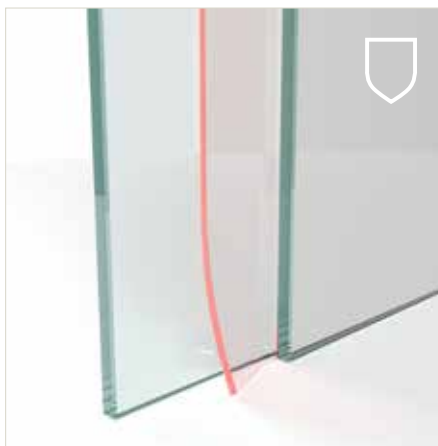
Secured or security cylinders



Drill protection



Secured hinges



Laminated safety glass or P4A safety infill panels

Interview with the burglary expert at ift Rosenheim.

Dipl.-Ing. Robert Krippahl, who for many years has been responsible for burglar resistance testing and expert reports at the Institut für Fenstertechnik (ift) Rosenheim, explains what exactly happens during burglary tests and what construction clients should look out for when choosing their front doors.

“We go about it like burglars.”

What is the procedure for testing doors?

Our test methods are based on how real burglars work and are regularly compared to the experience gained by the criminal investigation department. In this way, we can constantly align and update them. As most break-ins involve prising open doors or windows, the key element in a burglary test is the manual part. Attempts are made with various burglary tools to create a passable opening through which a burglar could enter.

How do you determine whether a door offers adequate burglar resistance?

The decisive test criterion is the break-in time: burglars are nervous about being discovered, so they will abort the break-in-attempt at some point if they are not having any success. The tested resistance time ranges from 3 minutes (RC 2) to 20 minutes (RC 6). If no passable opening is created within the specified test period, then the test is deemed to have been passed. The so-called “security chain” – covering everything from the masonry, fixing, door frame, hardware plus screw connections to the glass infill panel and its integration – is only ever as strong as its weakest link. Which is what our burglary tests also focus on. So we effectively go about it like burglars.



He gives burglars a hard time: Dipl.-Ing. Robert Krippahl is Product Manager at ift Rosenheim. Prior to that, he spent many years working as the manager of a test institute in a security lab, which also assessed burglar resistance.



The burglar resistance of doors is investigated at a test stand at the Institut für Fenstertechnik (ift) Rosenheim.

What security level do you recommend? Is resistance class RC 2 adequate?

The security fittings should always be specified to match the property and the risk of burglary should also be assessed. This normally means that the less visible windows and doors are from the outside and the greater the distance to the next-door neighbour, the bigger the risk of burglary. Alongside deterrents such as movement detectors with light and acoustic signals, the mechanical security of windows and doors is the most important precaution. And, not least, the choice of resistance class also depends on personal security needs, the value of personal property, insurance requirements, the building location and the available financial means. If you don't happen to have a Picasso hanging on your wall, then the criminal investigation department would recommend class RC 2. RC 3 applies for properties containing valuable assets and RC 4 to RC 6, for example, for banks, jewellery shops, government and utility buildings.

What points do I need to consider in relation to burglar resistance when selecting a new front door?

A front door is the most frequently used building component. A high standard in terms of fitness for use and durability – and, accordingly, the use of high-grade materials, hardware and locks – are therefore paramount. Installation also forms an integral part of the security concept and should only be performed by qualified installers. The best strategy is to look out for the RAL quality mark or ift certification for both door and installation. The relevant certificates serve to guarantee that the product quality and workmanship are regularly checked by independent external inspectors.

About ift Rosenheim

ift Rosenheim is a Europe-wide notified research, testing, monitoring and certification body and is internationally accredited under DIN EN ISO/IEC 17025. Its remit includes the testing and assessment of all the properties of windows, façades, doors, gates, glass and construction materials as well as personal protective equipment.

Burglary

→ Electronic options

Electronically locked.

The combination of mechanical and electronic security fittings offers maximum convenience and security – particularly when they are connected to the alarm or building management system. If duly integrated, these sensors are also smart home-ready.



Lock monitoring.

Through its sensors, the Finstral control module monitors the status of your door lock: the locked/unlocked status of the installed motorised lock can, for example, be signalled to the alarm system.



Magnetic contact.

The electronic magnetic contact installed between leaf and frame reliably reports whether the door leaf is open or closed.



Bolt switch contact.

The electronic bolt switch contact enables full monitoring of the lock mechanism: it reports to the connected alarm or building management system whether the door's centre bolt is extended.



Cylinder-free locking.

A fully motorised mechanism without key locks offers a highly reliable means of locking the door. Any attempts at tampering are immediately detected and reported by sensors, and recorded in an event log. The locking points are completely concealed.

Sun/Heat → Solar protection glass

In the right light.

If the entrance to your house faces south and you have opted for a front door made partly or entirely of glass, then it is advisable to install solar protection glazing. Finstral's high-performance solar protection glass filters out part of the sun's heat and light. Three types are available, each in the form of double or triple insulation glazing – so it is up to you how much light and heat you want to admit into your home!



Amply glazed front doors should incorporate solar protection glass, which significantly reduces heat gain.

Sun/Heat → Glass selection

Perfectly insulated. With solar protection to boot.

Glass should deliver perfect insulation performance while protecting against excessive sunlight. At the same time, we want a bright interior. Is that even possible? It is if you make sure you have high-quality glass. At Finstral, all insulating and solar protection glazing is manufactured in-house. For this, we use only the highest quality glass available on the market.

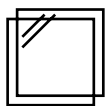
Plus-Valor

without solar protection,
our standard for double glazing

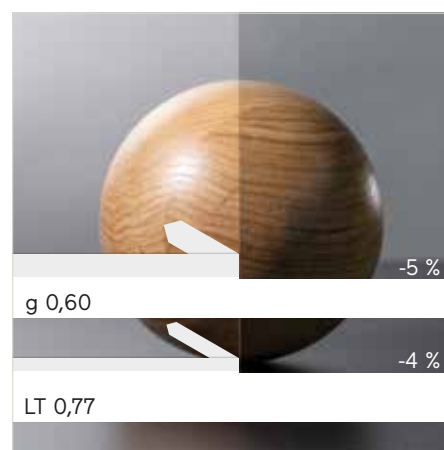
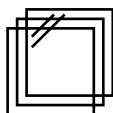
Max-Valor

without solar protection,
our standard for triple glazing

Double glazing



Triple glazing



Mediterran

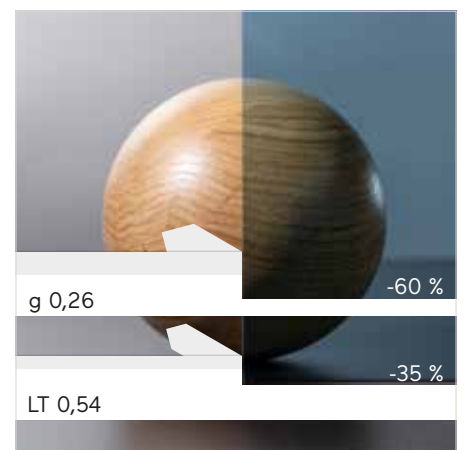
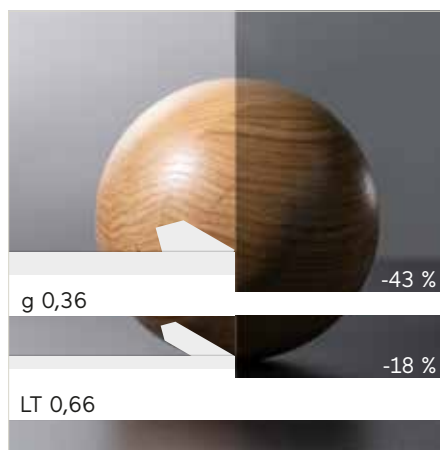
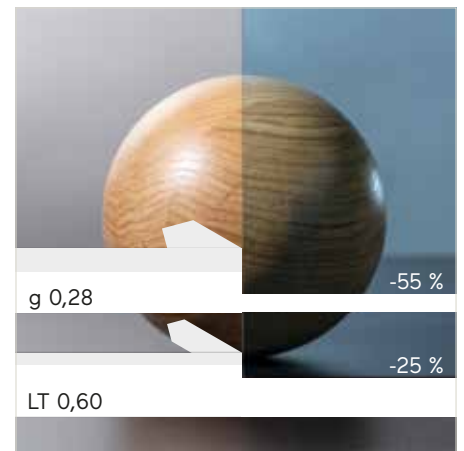
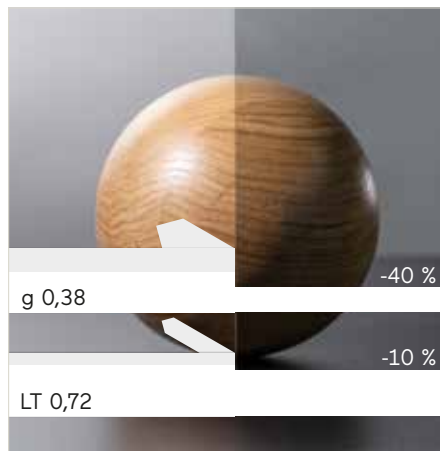
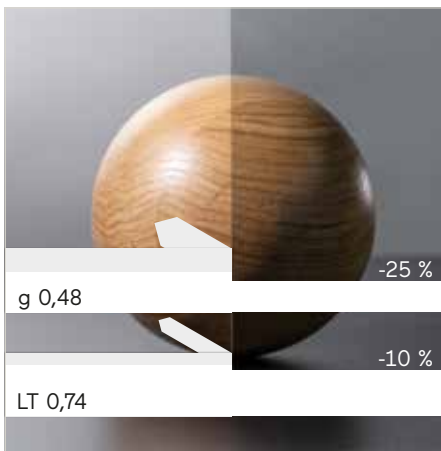
low-level solar protection,
our standard for glass surfaces in subtropical
climate zones

Sun-Control

medium solar protection,
our recommendation for large or sun-
exposed glass surfaces

Sun-Block

high-level solar protection, slightly reflective,
our recommendation for very large, sun-ex-
posed glass surfaces



The percentages indicate the reduction in thermal energy transmittance (g) and light transmittance (LT) compared to our standard Plus-Valor 2 insulation glass.

Privacy → Patterned glass

Aesthetic and translucent.

Privacy protection with low light loss? Our patterned glass, with its varying levels of transparency, can offer both. With a dozen or so design options, Finstral can supply a wide range of stylish glass finishes – including fracture-resistant versions made of safety glass. Or you can order glass bearing your own customised, sandblasted or enamel-printed motif to match your ideas or designs.

Greater burglary protection, lower risk of injury



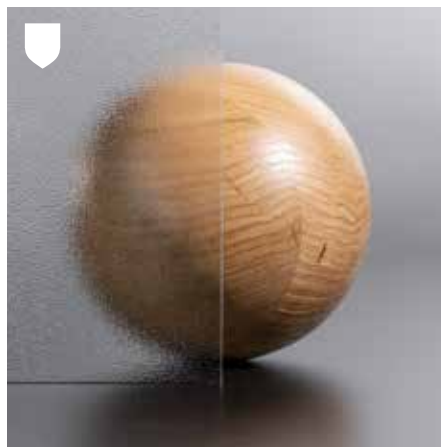
Three versions of our patterned glass (48, 86, 88) can be fitted with Multi-protect safety glass, whose highly tear-resistant film prevents the glass pane from shattering in the event of breakage.



Three versions (19, 31, 48) as well as sandblasted or printed patterned glass are available with Bodysafe safety glass, which ensures maximum impact resistance and minimum risk of injury.



18 Cathedral White



19 Orn. C – Orn. 504



27 Basic White



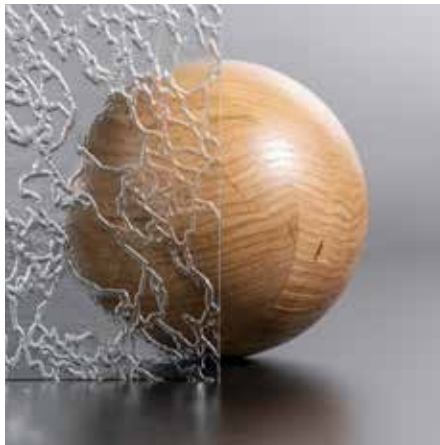
28 Pavé White



31 Chinchilla White



33 Baroque White



35 Delta White



48 Matt glass White



86 Kyoto



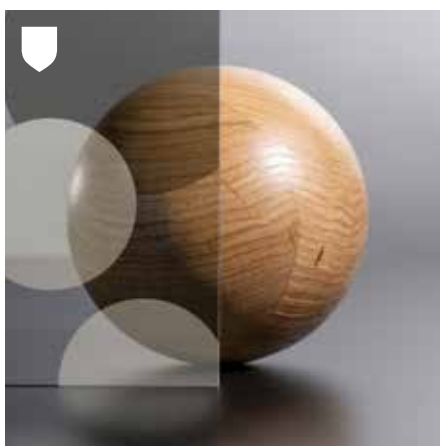
88 Miami



415 Parsol Grey



S01 Custom-sandblasted

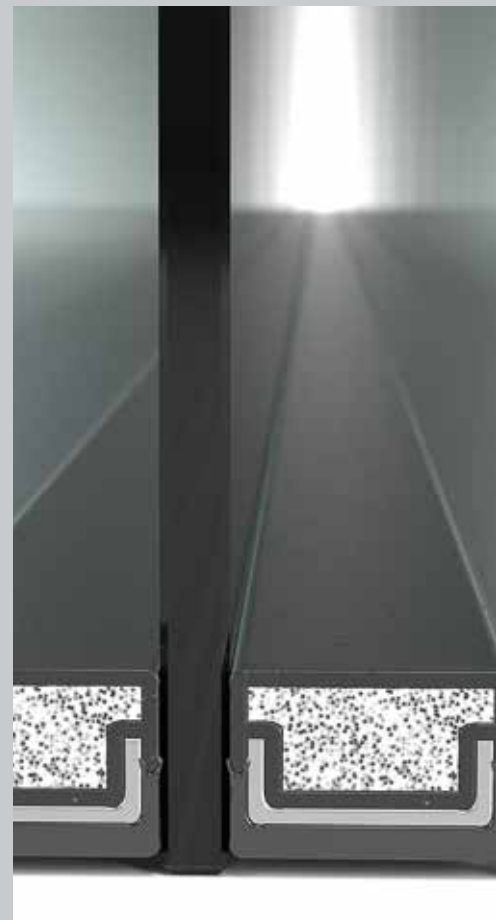


Custom-printed, e.g. pattern



Custom-printed, e.g. characters

Centre → Insulation
State-of-the-art core
that insulates perfectly.



Heat/Cold
Noise
Tightness



Heat/Cold → Insulation

Close the door, savour the comfort!

Our FIN-Door products are exceptionally weathertight: the durable, thermally insulating uPVC in the core of the frame and leaf profiles shields your home from heat and cold. The door infill panels are likewise made of highly insulating materials. At Finstral, the individual components of your door are assembled with the utmost precision and care to guarantee perfect insulation!

Insulation virtuoso: uPVC in core.

uPVC is an outstanding insulator – which is why Finstral door and leaf frames have a uPVC core that keeps out the heat and the cold. Moreover, our extremely durable uPVC profiles are always welded at joints to provide an airtight and watertight barrier against wind and weather. Quite apart from that, uPVC is 100 % recyclable.

What exactly is the U_g value of a front door?

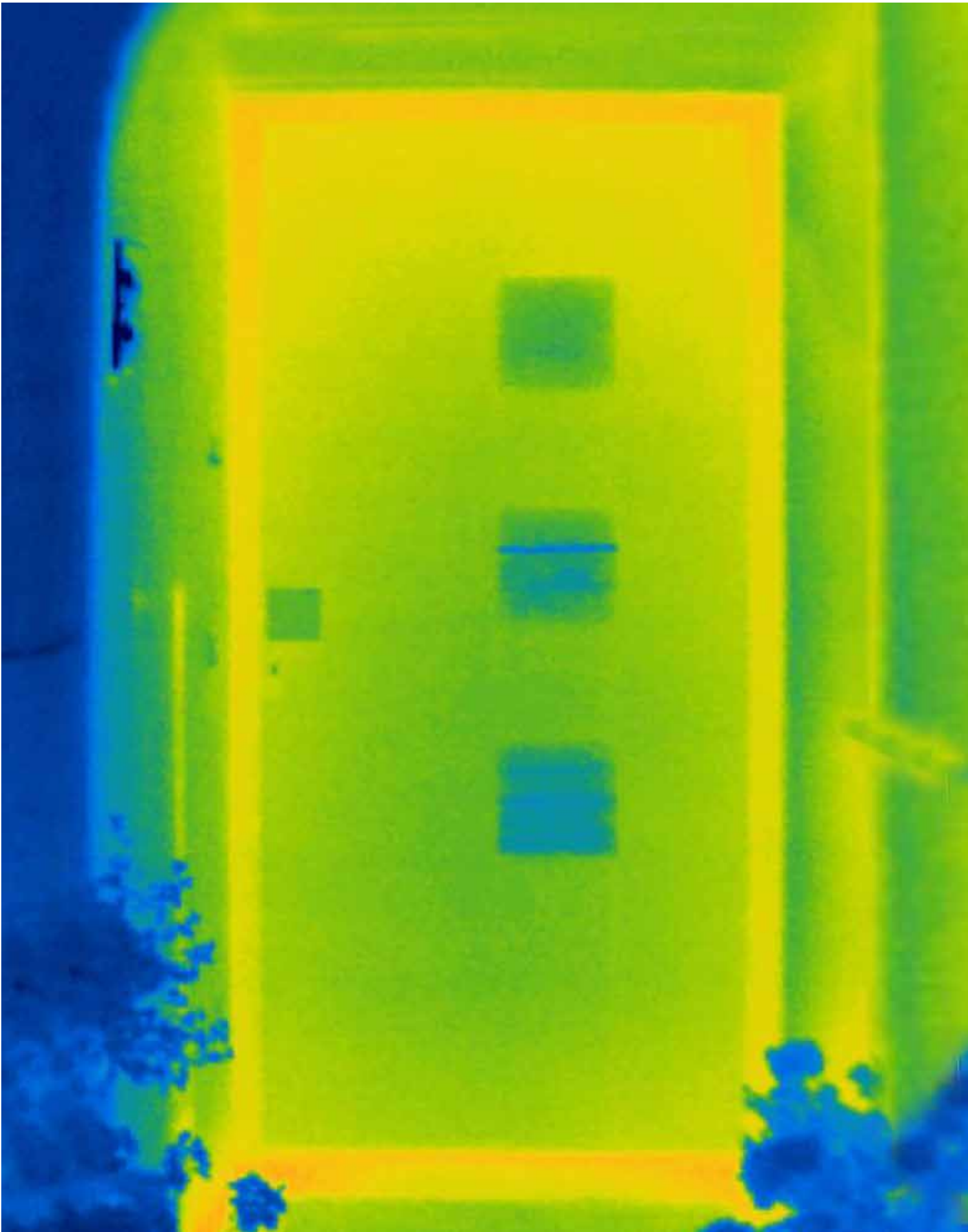
The U_g value refers to the thermal transmittance of a front door, i.e. it expresses the energy loss in watts (W) per unit area (m^2) given a temperature difference of 1 Kelvin (K) between inside and outside (unit: W/m^2K). The lower the U_g value, the higher the quality of the overall construction and the better the thermal insulation of the front door.

		FIN-Door 77		FIN-Door 90		FIN-Door 124		FIN-Door 78	
		uPVC-uPVC Aluminium-uPVC Aluminium-aluminium		uPVC-uPVC Aluminium-uPVC Aluminium-aluminium		uPVC-uPVC Aluminium-uPVC Aluminium-aluminium		Aluminium-aluminium	
		U_g value		U_g value		U_g value		U_g value	
		1-leaf*	2-leaf	1-leaf*	2-leaf	1-leaf*	2-leaf	1-leaf*	2-leaf
Step Frame - Step Frame	Glass	Up to 0.80	Up to 0.82	Up to 0.77	Up to 0.83	Up to 0.77	Up to 0.83		
	Infill panel	Up to 0.73	Up to 0.75	Up to 0.71	Up to 0.75	Up to 0.71	Up to 0.75		
Step Planar - Step Planar	Glass	-	-	-	-	-	-		
	Infill panel	Up to 0.74	Up to 0.79	Up to 0.72	Up to 0.77	Up to 0.74	Up to 0.79		
Step Planar - Step Frame	Glass	Up to 0.83	Up to 0.89	Up to 0.84	Up to 0.90	Up to 0.84	Up to 0.90		
	Infill panel	Up to 0.83	Up to 0.99	Up to 0.84	Up to 1.0	Up to 0.84	Up to 1.0		
Flat Frame - Flat Frame, Flat Frame - Step Frame								Up to 1.0	Up to 1.1
								Up to 0.94	Up to 1.0
Flat - Planar - Flat Planar, Flat Planar - Step Planar								-	-
								Up to 0.90	Up to 0.96
Step Planar - Flat Planar, Step Planar - Step Planar								-	-
								Up to 0.90	Up to 0.96
Step Planar - Flat Frame, Step Planar - Step Frame								Up to 1.2	Up to 1.3
								Up to 1.1	Up to 1.2
Fixed glazing								Up to 0.85	Up to 0.85
								Up to 0.78	Up to 0.78

Further information on thermal insulation values is presented from page 229 onwards.

* The reference size to ISO 10077-1:2017 of the single-leaf front door for the U_g calculation is 1.23 m width and 2.18 m height.

Thermogram of Finstral front door: the predominance of yellows and greens demonstrates its outstanding thermal insulation properties.



Noise → Sound insulation

Enjoying some welcome peace and quiet!

Finstral also offers top-class sound insulation performance. This is due to the door design, with dimensionally stable uPVC frame profiles that are pulled together tightly by high-grade locking mechanism, ensuring that the perimeter inner and middle gaskets achieve uniform contact pressure. This keeps the door weathertight while providing maximum protection against noise.



Standard or sound-optimised door leaves.

Sound-optimised versions of many of our door leaves are available for doors subject to extra-high noise protection requirements. Here, high-performance noise protection glass is fitted in the leaf core, thereby practically doubling the sound insulation value. Accordingly, while a standard Finstral door reduces sound by 36 dB, a sound-optimised version achieves a value of 41 dB*.

* The stated values relate to tests for the sound reduction index R_w performed on a single-leaf Finstral front door of the type FIN-Door Step Planar – Step Planar aluminium-aluminium version, size 990 x 2120 mm.

Tightness

→ Threshold and middle gasket

Close the door – and all is well.

To provide an effective barrier against heat, cold, wind, weather and noise, your front door must achieve a tight seal. Here, in addition to the door leaf composition and quality of the profiles and gaskets, the threshold plays a crucial role.



2 cm threshold

Our standard: thermally insulated, with perimeter inner gasket, and barrier-free with a height of only 2 cm for easy wheelchair access

Thermal break between interior and exterior floor prevents condensation and damage to building

Driving rain tightness up to class 8A when locked

Airtightness up to class 4 when locked

Additional drainage recommended on outside where door is not sheltered, e.g. by canopy



Zero (0 cm) threshold

With drop-down seal

Thermal break between interior and exterior floor prevents condensation and damage to building

Driving rain tightness up to class 2A when locked – not tested

Airtightness – not tested

Additional drainage recommended on outside where door is not sheltered, e.g. by canopy



No threshold, continuous floor surface

Without threshold, with drop-down seal

Driving rain tightness and airtightness not testable

Recommended for interior only

Always with middle gasket.

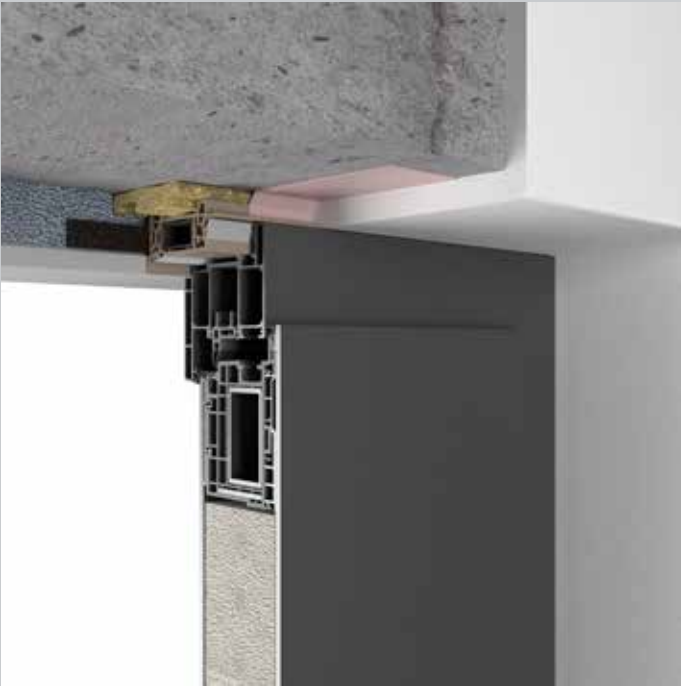
All Finstral front doors incorporate a middle gasket that separates the water-exposed and hardware levels. This protects the door's hardware and electronic components from moisture and dust.

Moreover, at Finstral, gaskets are never simply fitted, but always co-extruded during the manufacturing process so as to ensure a firm connection with the frame profile.

Centre → Building connection Smart installation in reveal.



Mounting method Sealing



Mounting method → New-build/refurbishment

Smarter methods of door installation.

Perfect installation requires good-practice, defect-free workmanship. If possible, finished doors – often fitted with numerous electronic devices – should not be the first parts of the building completed and in place on site. Where this is the case, they are exposed to the risk of soiling, damage, building moisture and glass breakage. In line with the recommendations of the Institut für Fenstertechnik (ift) Rosenheim in the RAL Guideline (“Guideline for installation of windows and external pedestrian doors”), we therefore recommend two-stage installation with mounting frame, in preference to the traditional procedure, as the best door installation method.



A temporary site door with a simple lock serves as a temporary closure at the entrance until the front door is installed. Finstral supplies temporary site doors ex works on request.

Two-stage installation with mounting frame



Single-stage installation on masonry



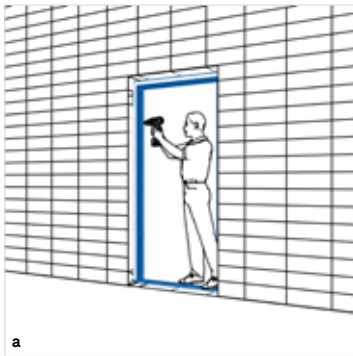
Availability of spaces	Irrelevant for new-builds	Irrelevant for new-builds
Protection of door against damage	No protection needed as door is not installed until after wet construction phase.	After installation, door requires protection against moisture, dirt and impact on wet construction site. Damage frequently occurs during wet construction phase.
Detailed design of building connection	Building connection library with over a thousand detail drawings, more than 400 of which have been tested by independent Institut für Fenstertechnik (ift) Rosenheim	Building connection library with over a thousand detail drawings, more than 400 of which have been tested by independent Institut für Fenstertechnik (ift) Rosenheim
Involved trades	Door installer as well as bricklayers, painters and, in some cases, scaffolders	Door installer as well as bricklayers, painters and, in some cases, scaffolders
Installation time per door*	Approx. ¾ hour for frame installation × 1 person, in addition adjoining trades + approx. 1 ½ hours for door installation × 2 persons	Approx. 2 hours × 2 persons, in addition adjoining trades, e.g. protection/masking door
Coordination of installation	Low effort as installation is performed independently of other trades on site and offers clear interfaces for connections with their works. Avoidance of any delays in construction programme caused by door installation.	High effort as installation requires coordination with other trades on construction site. Delays or unforeseen circumstances must be accommodated.
Restrictions	No restrictions	No restrictions
Sustainability of installation	Perfectly prepared for straightforward door replacement in future	Not prepared for straightforward door replacement in future

* Including site set-up, manoeuvring of door, formation of building connection, installation of 1.00 × 2.15 m single-leaf front door without electronics on ground floor

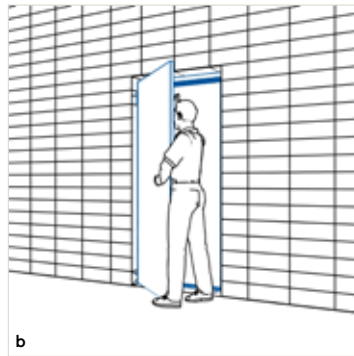
Mounting method new-build/refurbishment → Two-stage, mounting frame

State-of-the-art installation of a new front door.

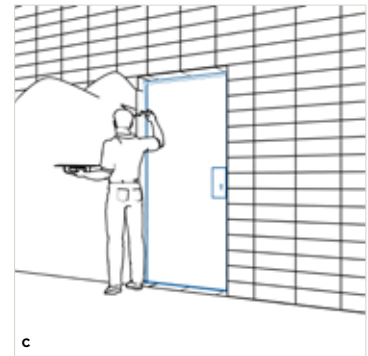
First, a thermally insulated mounting frame is fitted in the reveal to form the interface with the door frame. The door frame and leaf are only added after the end of the wet construction phase. In this way, the new door is reliably protected against damage from site works.



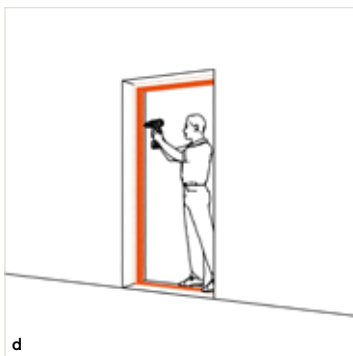
a
A thermally insulated mounting frame is fitted in the reveal during the wet phase of the structural works.



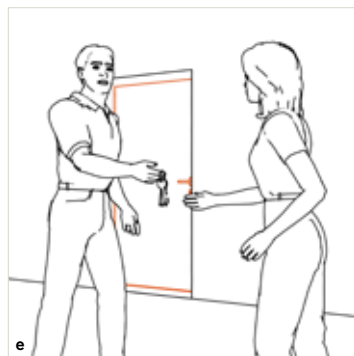
b
A temporary site door with provisional lock can be installed on request.



c
All wet construction works (screed laying, plastering/rendering, electricals, drywall installation etc.) are completed.

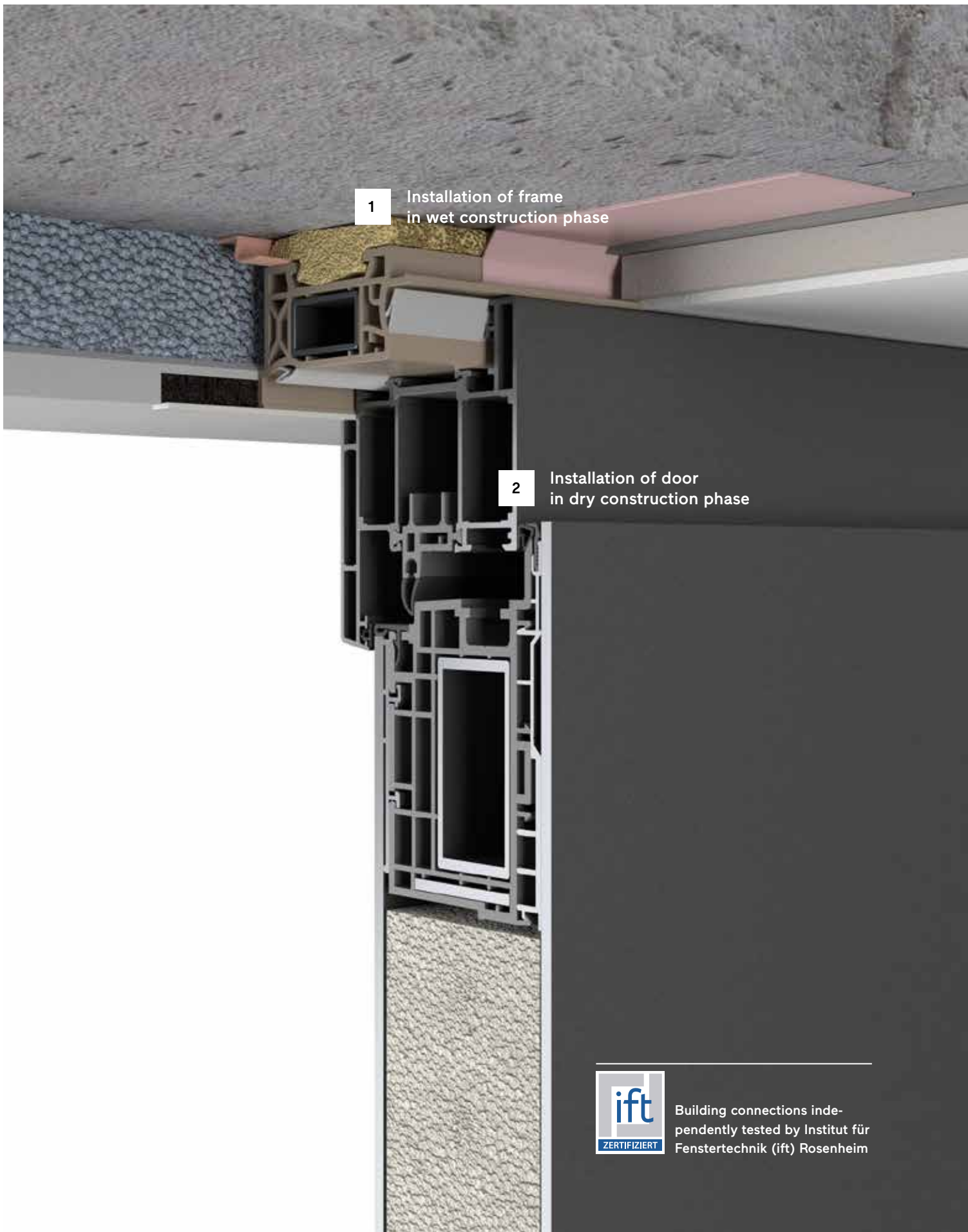


d
Once all the "heavy" work has been completed, the temporary door is removed and the new door frame screwed to the mounting frame.



e
Finally, the new door leaf is hung and you are handed over the keys.

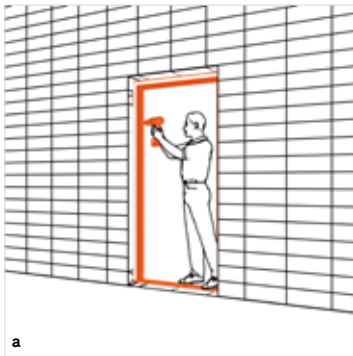
Under the RAL Guideline, two-stage installation with mounting frame is recommended as the best installation method for windows and doors.



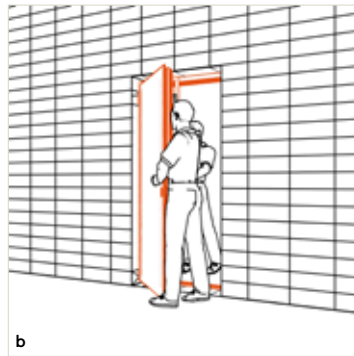
Mounting method new-build/refurbishment → Single-stage, masonry

Traditional installation of new front door.

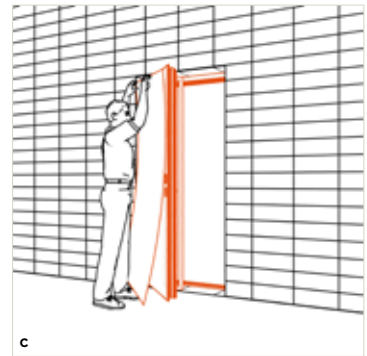
The new frame is fixed directly to the masonry prior to rendering during the wet construction phase for the new-build. The frame must subsequently be protected against damage from site works. Two-stage installation with mounting frame (see previous page) is thus the preferred method.



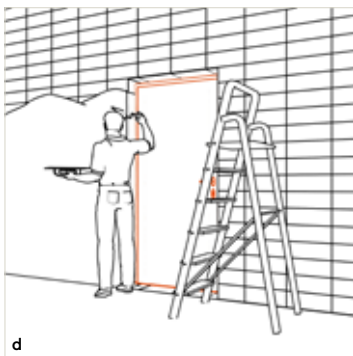
a
The new door frame is fitted in the reveal during the wet phase of the structural works.



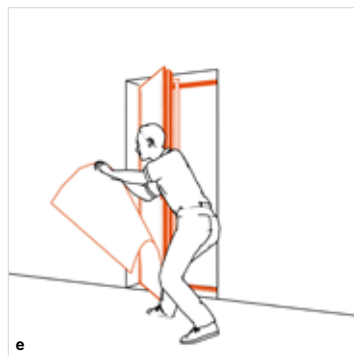
b
The door leaf is then hung.



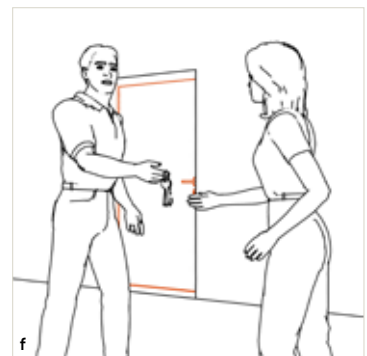
c
Protection is provided for the new door frame and door leaf.



d
All wet construction works (screed laying, plastering/rendering, electricals, drywall installation etc.) are completed.

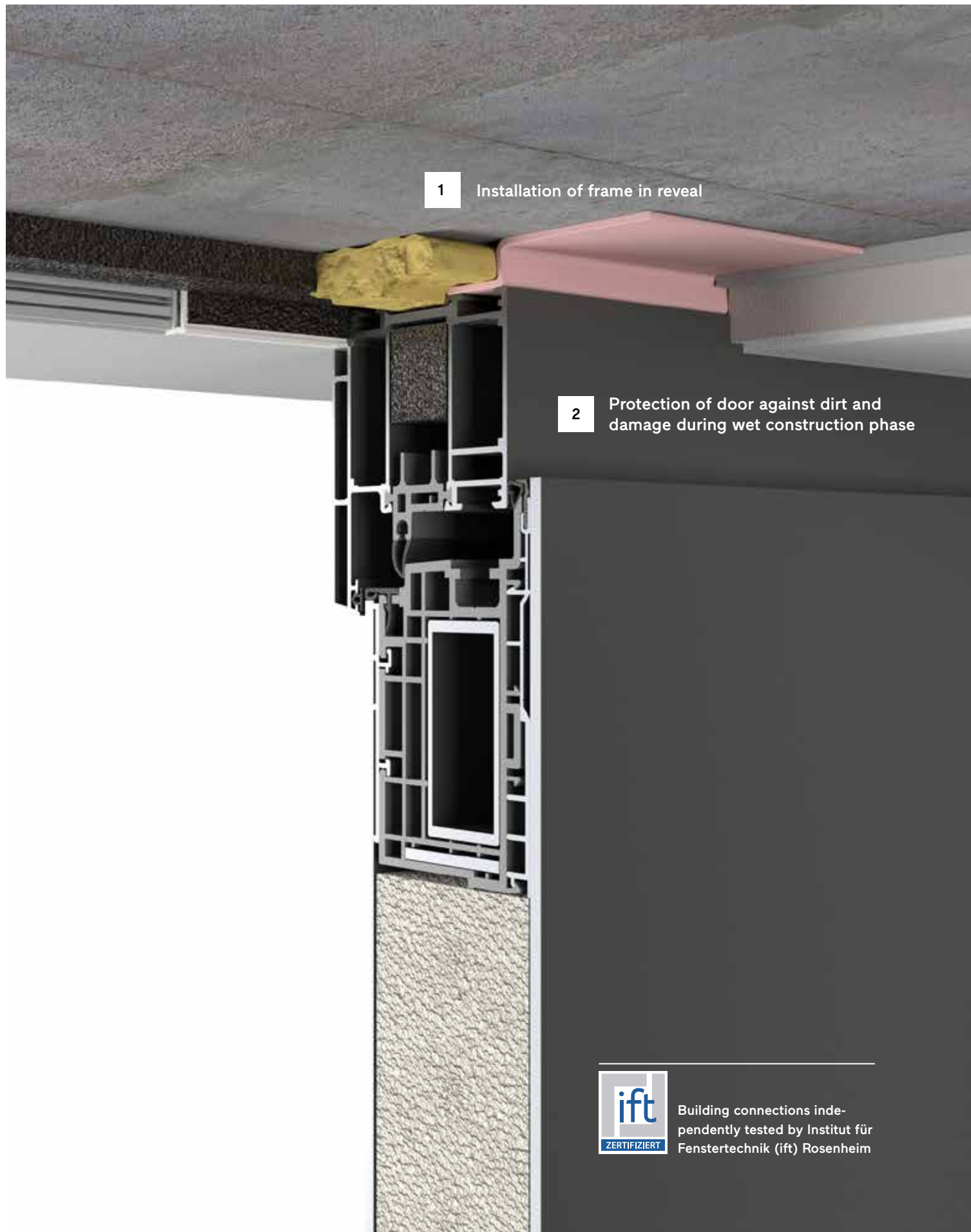


e
The protection is removed.



f
You are handed over the keys.

To prevent damage to the door during the wet construction phase, we recommend the use of a mounting frame for installation.



Mounting method → Refurbishment/replacement

The installation is the key!

While Finstral doors can be fitted in the standard way, they also cater for the use of much smarter methods: for new-build schemes, we recommend two-stage installation with mounting frame and, for refurbishments, slide-on installation.

Replacement on masonry



Availability of spaces

As the existing frame is broken out of the reveal, not only the door but also the interior spaces require protection against dust and dirt.

Protection of door against damage

No protection needed as no more dirt and dust arise after installation.

Detailed design of building connection

Building connection library with over a thousand detail drawings, more than 400 of which have been tested by independent Institut für Fenstertechnik (ift) Rosenheim

Involved trades

Door installer as well as, in some cases, bricklayers, painters and scaffolders

Installation time per door*

Approx. 3 hours × 2 persons, in addition adjoining trades, e.g. making good reveal plasterwork

Coordination of installation

Increased effort if other trades require coordination. Delays or unforeseen circumstances must be accommodated.

Restrictions

No restrictions

Sustainability of installation

Increased effort due to intervention in building fabric. No provision for simplifying door replacement, though refurbishment through slide-on or slide-in installation easier in future.

Replacement on existing mounting frame



The interior is soon reusable as the replacement can be carried out quickly and without dust or dirt. Only the surface in front of the door needs cleaning.

No protection needed as no more dirt and dust arise after installation.

Building connection library with over a thousand detail drawings, more than 400 of which have been tested by independent Institut für Fenstertechnik (ift) Rosenheim

Door installer only

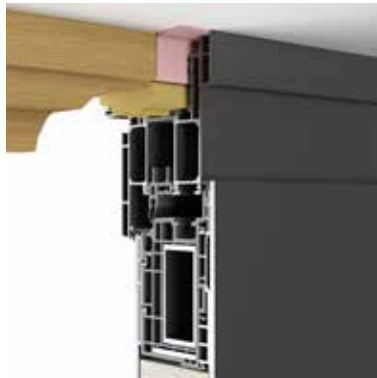
Approx. 2 ½ hours × 2 persons, no adjoining trades needed

Flexible, as independent of other trades. Low risk of unforeseen circumstances allowing more reliable estimation of effort.

Only feasible if existing frame in place

Resource-efficient treatment of existing building as no intervention in building fabric needed. Perfect preparation for straightforward door replacement in future.

Replacement with slide-on installation on existing wooden frame



The interior is soon reusable as the replacement can be carried out quickly. As the existing wooden frames are cut back, floors and furniture require protection against dirt.

No protection needed as no more dirt and dust arise after installation.

Building connection library with over a thousand detail drawings, more than 400 of which have been tested by independent Institut für Fenstertechnik (ift) Rosenheim

Door installer only

Approx. 3 hours × 2 persons, no adjoining trades needed

Flexible, as independent of other trades. Low risk of unforeseen circumstances allowing more reliable estimation of effort.

Existing wooden frame undamaged

Resource-efficient treatment of existing building as no intervention in building fabric needed. Straightforward door replacement feasible in future through renewed slide-on installation.

Replacement with slide-in installation on existing aluminium or uPVC frame



The interior is soon reusable as the replacement can be carried out quickly and without dust or dirt. Only the surface in front of the door needs cleaning.

No protection needed as no more dirt and dust arise after installation.

Building connection library with over a thousand detail drawings, more than 400 of which have been tested by independent Institut für Fenstertechnik (ift) Rosenheim

Door installer only

Approx. 2 hours × 2 persons

Flexible, as independent of other trades. Low risk of unforeseen circumstances allowing more reliable estimation of effort.

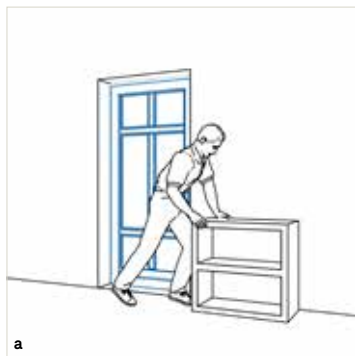
Old door must be designed without threshold profile. Not feasible in case of interior flush installation of existing door in reveal.

Resource-efficient treatment of existing building as no intervention in building fabric needed. Straightforward door replacement feasible in future through renewed slide-in installation.

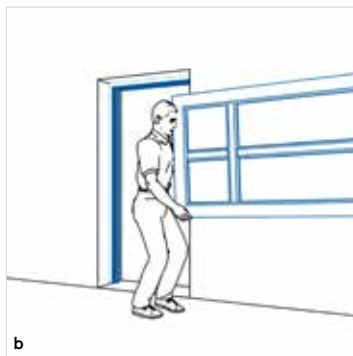
Mounting method refurbishment/replacement → On masonry

The traditional method.

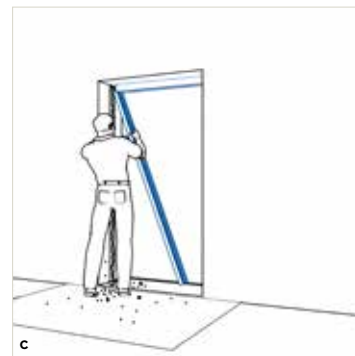
The existing frame is not torn out, but very carefully dismantled. Damage to adjoining building elements and finishes can thus be largely avoided. Particular care must also be taken to minimise the creation of dust and dirt so as to limit the impact on the furnished living environment.



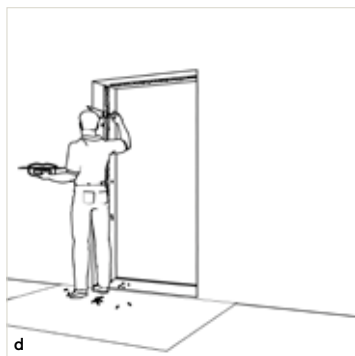
a
The area by the front door is prepared. It may be necessary to move furniture and lay down protective sheets.



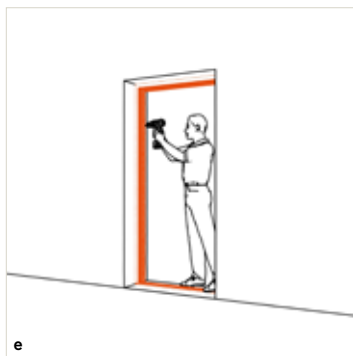
b
The old door leaf is unhung and, if required, properly disposed of by the installer.



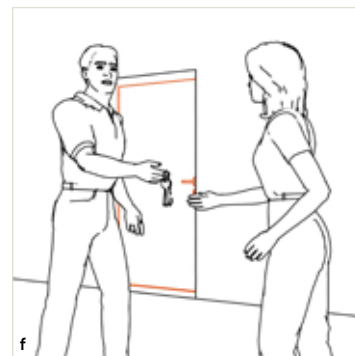
c
The existing frame is broken out of the reveal.



d
The reveal is made good on the inside and outside (by plastering/ rendering and painting). Scaffolding is used where necessary.



e
The new frame is installed in the reveal.



f
The new door leaf is hung and you are handed over the keys.

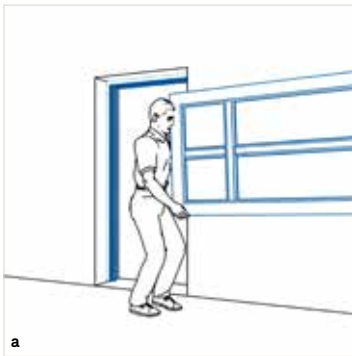
The complete removal of the existing frame involves increased effort due to the intervention in the building fabric.



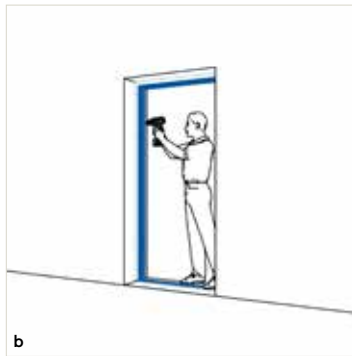
Mounting method refurbishment/replacement → On existing mounting frame

So quick, so easy.

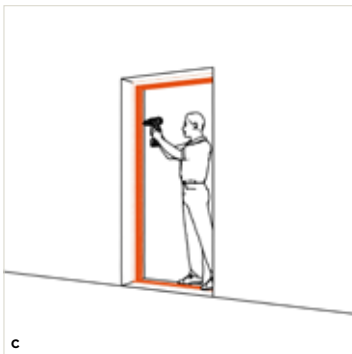
Was your present front door fitted on a mounting frame? Then you are in luck because this will simplify and speed up replacement. The old door is unscrewed from the frame and a new one inserted. The replacement can be performed in around two hours, without noise, dirt, scaffolding or any need for users to vacate the building.



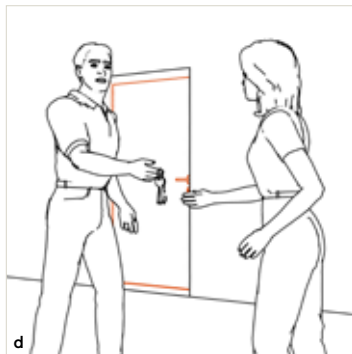
The old door leaf is unhung and, if required, taken away by the installer for proper recycling.



To remove the door frame, simply unscrew it from the mounting frame. This generates hardly any noise or dirt.



The new frame is inserted into the existing mounting frame and screwed down.



Finally, the new door leaf is hung and you are handed over the keys.

If a mounting frame is already fitted, then the door can be replaced without any noise or dirt.



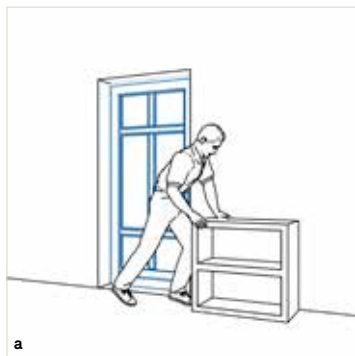
1 Remove the old frame from the mounting frame

2 Screw the new frame to the existing mounting frame

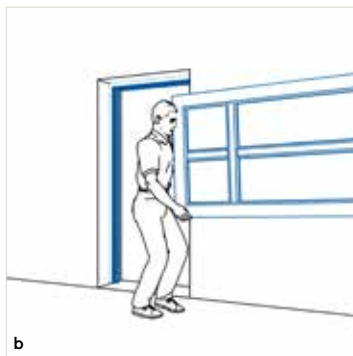
Mounting method refurbishment/replacement → Slide-on installation

Rapid refurbishment of old wooden front door.

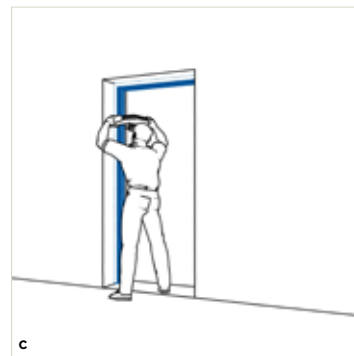
Slide-on installation is the best option for refurbishing wooden front doors. It involves cutting back the existing wooden frame to just a few centimetres and sliding on the new frame. The replacement can be performed at a rate of around three hours per door, without any masonry or painting works.



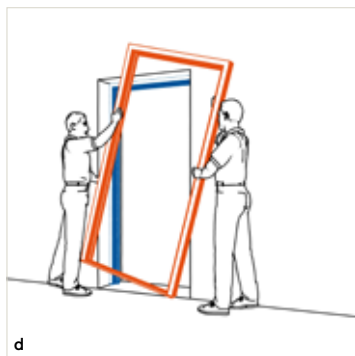
a
The area by the front door is prepared. It may be necessary to move furniture and lay down protective sheeting.



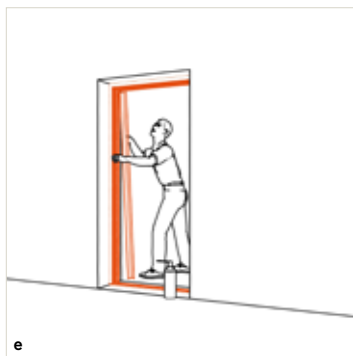
b
The old door leaf is unhung and, if required, properly disposed of by the installer.



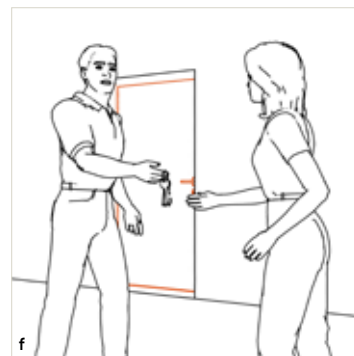
c
The hardware is removed from the old wooden frame, which is then cut back.



d
The new frame is then simply slid on and screwed to the existing frame.



e
The old wooden frame is externally faced.



f
The new door leaf is hung and you are handed over the keys.

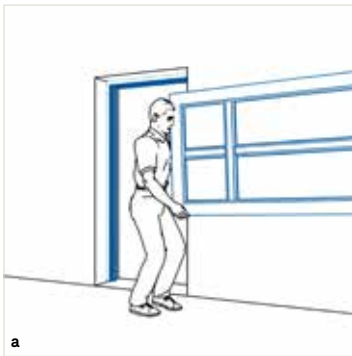
Finstral slide-on installation: minimally invasive, dirt-free and without intervention in masonry.



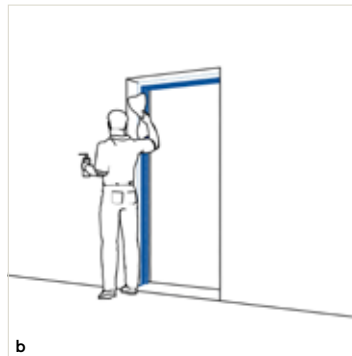
Mounting method refurbishment/replacement → Slide-in installation

Effortless refurbishment of front door with uPVC or aluminium frame.

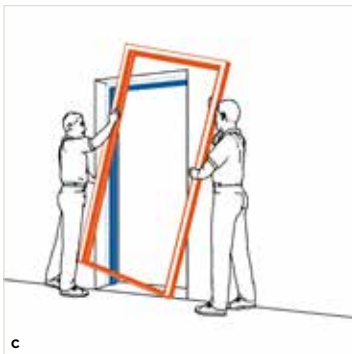
Slide-in installation is recommended for old front doors with a uPVC or aluminium frame. Here, the existing frame is retained and faced by a new one. The replacement can be performed in around two hours, without noise, dirt, scaffolding or any need for users to vacate the building.



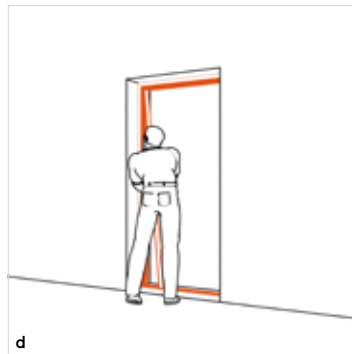
The old door leaf frame is unhung and, if required, taken away by the installer for proper recycling.



The hardware is removed from the old frame, which is then professionally cleaned on both inside and outside. This generates neither noise nor dirt.



The existing frame is faced by a new frame profile and thereby additionally insulated.



Where necessary, trim can be fitted on the interior to provide a neat look. The door leaf can then be hung.

As the existing frame is internally faced, slide-in installation is unsuitable for front doors installed flush on the interior.



Sealing → Top-class installation

Fast and clean.

A front door can only be perfect if it is properly fitted. Good-practice connection of the door frame to the reveal is essential for delivering a reliable seal capable of lasting decades.



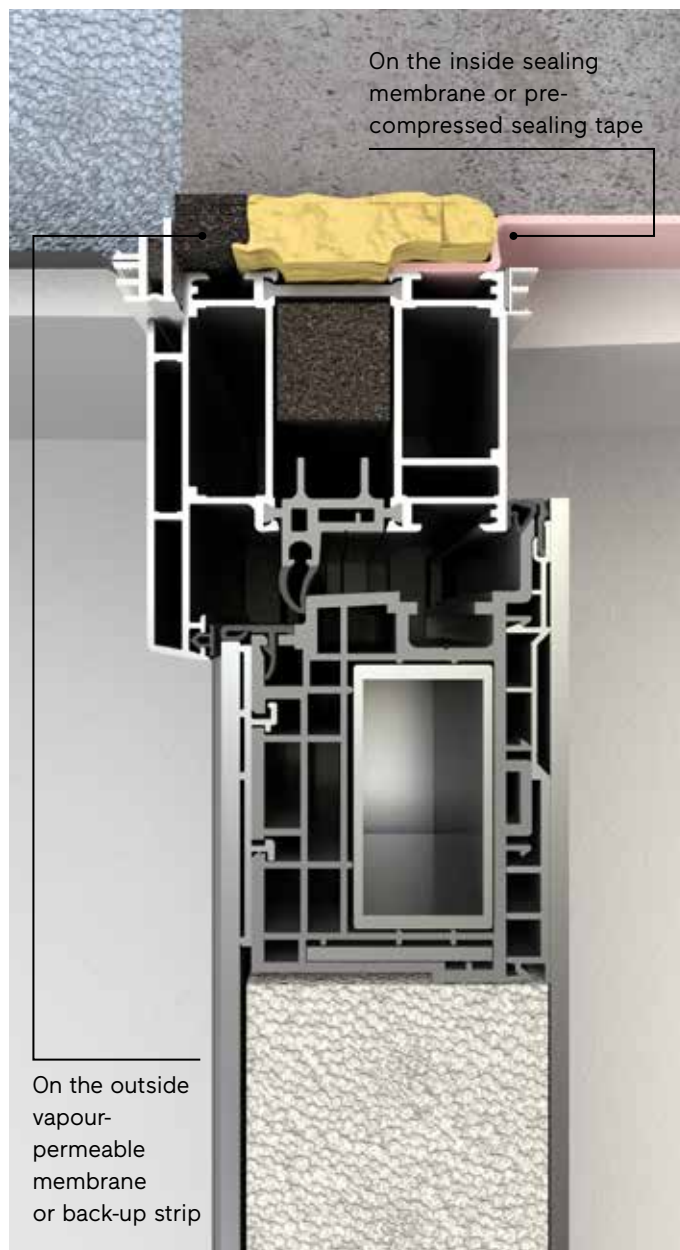
Always professional installation.

Good-practice installation necessitates, among other things, the use of chemical-free, weather- and ageing-resistant pre-compressed tape and high-grade sealing membranes, plus detailed design of the suitable building connection. Our building connection drawings specify exactly which materials to use and how to fix them. In the course of 50-plus years, Finstral has compiled one of the most comprehensive building connection libraries, covering virtually all standard building types and construction methods. Which means we can always supply the appropriate detailed design for your installation.

Independently certified building connections.

Most of Finstral's building connection drawings have been independently certified by the Institut für Fenstertechnik (ift) Rosenheim and thus meet the most stringent technical requirements in Europe. Installation partners are regularly trained by Finstral. This is how we maintain our high standards of workmanship.

Single-stage installation directly on wall



Two-stage installation with frame



Interior → Design
Tailored
to your interior.



Material
Colour/Finish
Shape
Handles/Hinges



Material

→ Door frame and door leaf

uPVC leaf

Aluminium leaf

Wooden leaf

uPVC frame
Only in Step



Aluminium frame
In Step and Flat



Wooden frame
Only in Step and as
Inlay in Flat



Ceramic frame
Only as Inlay in Flat



Exterior → Design →
Colour/Finish → uPVC

Exterior → Design →
Colour/Finish → Aluminium

Interior → Design →
Colour/Finish → Wood

Freely combinable.

Four frame materials and five leaf materials are available for designing the interior face of your door.

Glass leaf

Exterior → Design →
Colour/Finish → Enamelled glass

Ceramic leaf

Exterior → Design →
Colour/Finish → Ceramics

Colour/Finish → uPVC

Easy-care with high-grade finish.

Whether smooth, embossed or with satin finish: our uPVC profiles are always properly compressed and the textures embossed into the material. This has the advantage of producing highly easy-care finishes with lasting appeal.



uPVC

from left to right:

- 01 White extra smooth
- 46 Silk Grey satin finish
- 07 Pearl White embossed



Colour/Finish → Wood decor

Easy-care, long-lasting look of wood.

Whether uPVC or aluminium: our wood decors are hardly distinguishable to the eye from real wood while being easier to clean and less sensitive to moisture, scratches and dirt. For a pleasant, natural living ambience.

Wood decor
from left to right:

Aluminium
L18 Rustic Oak
coated

uPVC
19 Oak wood decor



Colour/Finish → Aluminium

Maximum variety.

Bright yellow or jet black, smooth or slightly grainy: our wide range of stylish, full-strength, special effect and special colours embraces some 250 tones that will enable you to tailor the interior face of your door to your exact wishes.

Aluminium
from left to right:

303 Classic
LC32 Pale Bronze
2525 Mars





Colour/Finish → Wood

Authentic, warm, homely.

Unlike on the façade, solid wood that features in the interior, where it is protected from the weather, can bask in its unique aesthetic qualities for years to come. Our hardwood, softwood and precious wood options provide you with a wide choice.



Wood

from left to right:

2X02 Oak Nature oiled

1X05 Spruce bleached

7X04 Oak smoked

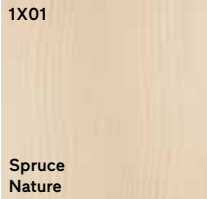
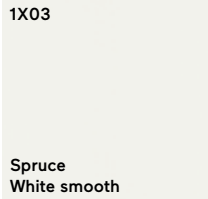
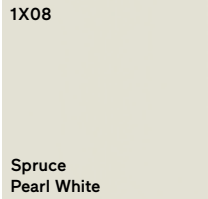
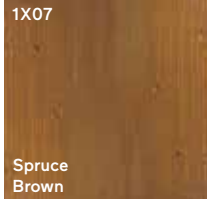


Colour/Finish → Wood

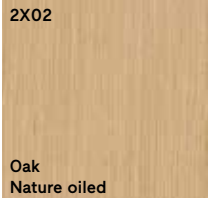
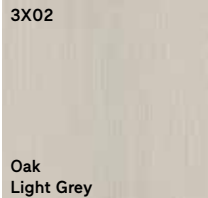
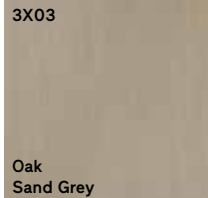
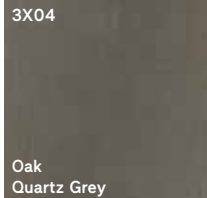
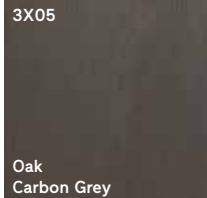
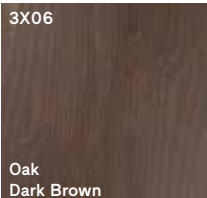
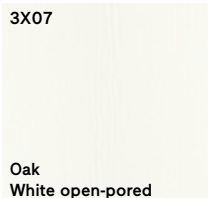
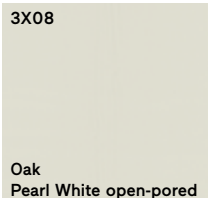
Naturally beautiful.

Real wood can offer a good match for diverse styles of furnishing, from traditional to contemporary. The oak used for our own production comes mainly from France, the spruce mainly from South Tyrol/Italy.

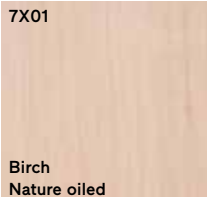
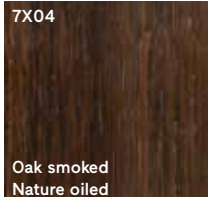
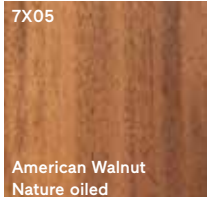
Softwood.

1X01	1X03	1X08	1X05	1X06	1X07
					
Spruce Nature	Spruce White smooth	Spruce Pearl White	Spruce bleached	Spruce Beige Grey	Spruce Brown

Hardwood.

2X01	2X02	3X02	3X03	3X04	3X05
					
Oak Nature	Oak Nature oiled	Oak Light Grey	Oak Sand Grey	Oak Quartz Grey	Oak Carbon Grey
3X06	3X07	3X08			
					
Oak Dark Brown	Oak White open-pored	Oak Pearl White open-pored			

Precious wood as Inlay variant: only model flush on interior (Flat) possible

7X01	7X02	7X03	7X04	7X05
				
Birch Nature oiled	European Cherry Nature oiled	European Oak Nature oiled	Oak smoked Nature oiled	American Walnut Nature oiled

Aluminium in 250 colours.

For the Inlay variant, the precious wood is inserted into a support profile that is available in all aluminium colours.

In our own production facilities, we make facings from high-quality wood. This enables us to optimise the use of this precious raw material. Here 3×02 Oak Light Grey, 3×04 Oak Quartz Grey, 3×05 Oak Carbon Grey, 3×06 Oak Dark Brown.



Colour/Finish → Enamelled glass

Brilliantly rich colours.

Full-surface or only edge enamelling, in one or more colours, printed to custom specification or with stone decor: the enamelled glass surfaces lend these front doors their distinctive charm.

Glass

from left to right:

Stone decor ST10 Granite
Brownish, frame aluminium
303 Classic

Full-surface enamelling
G03 Khaki Grey, frame
aluminium 358 Gris

Edge enamelling G04
Anthracite Grey, frame
aluminium F716 Anthracite
Grey fine texture



Colour/Finish → Ceramics

Seta, Filo, Lava, Tempo, Oxide.

Ceramic surfaces in five variations can be used to craft expressive front doors with powerful colour shades. The edge strips are colour-matched with the infill panel as standard.

Ceramics
from left to right:

Infill panel and frame
7C15 Seta Glace

Infill panel 7C13 Filo Pece,
frame aluminium F724
Graphite Grey

Infill panel and frame
7C04 Oxide Nero





Colour/Finish → Reliefs and inlays

Enriching doors with contours.

Flattened or grooved infill panels, routings, stainless-steel-look inlays, glass cut-outs, attached frames and glazing bar/rail divisions: style elements such as these enable you to tailor your front door to your specific wishes.

From left to right:

Model 47-1

Frame aluminium F124
Ochre Yellow fine texture
Infill panel precious wood
3X05 Oak Carbon Grey
Edging enamelling G01
Jet Black

Model 2.0

Frame and attached
frame uPVC 46 Silk Grey
satin finish
Infill panel uPVC 45 White
satin finish

Model 93

Frame and vertically
grooved infill panel
uPVC 27 Pearl White satin
finish





First impressions count – this also applies to the exterior impact of your home to which the front door makes a major contribution. Finstral sales consultant Eva Monné speaks about the multi-faceted design universe of our company's doors. And about how to successfully find the right door for every home.



As a sales consultant at the Spanish Finstral Studio in Tarragona, Eva Monné knows what clients expect of a front door.

“Opening the door to endless possibilities.”

What do people expect of a front door?

A front door essentially has two functions: first, it should protect us and our home – from heat and cold, from wind and rain, but also from uninvited guests, from noise and from the hustle and bustle of the “outside world”. At the same time, with the door, we also extend a welcome to this same world, to our family and friends. It shapes the external perception of our house. So, ideally, it should meet our need for comfort and security while also satisfying our aesthetic demands.

What is it that makes a Finstral front door so special?

It is the abundance of possible combinations that cater for a closely customised design – that two Finstral front doors are hardly ever identical is no coincidence, nor an exaggeration.

Our range of materials, colours and other design elements, including door handles and optional security or comfort features, is very extensive. There really are millions of possible permutations. What sets Finstral apart is that it makes virtually all the individual components itself. We can therefore offer you across-the-board modularity and absolute freedom in configuring the design and fittings of your front door.

Why is it so vital to have a wide choice?

Because of the crucial role played by the front door in shaping the overall impact of a building. Which means it must be in keeping with its architecture – both inside and outside. The same goes for windows, by the way. The big advantage with Finstral is that the doors and windows are produced together and the ranges perfectly matched.

So should I be guided mainly by the architectural style?

You should be guided by your own style. If you are modernising an old finca, for example, then the door may appear very traditional on the exterior while taking on a minimalist look on the inside. What really matters is that you are in no way limited in your choice.

But looks aren't everything, are they?

Of course not. Ease of operation is another key factor for a good front door. If you want to open the door without a key, then we can incorporate a finger scan. If you want more light in the hallway or want to see from the interior who is standing outside, then we can consider a vision panel or a glazed sidepanel. It is also worth giving more careful thought to the functions of the front door.

With all this choice, how do I work out which front door is the best match for me and my house?

Just take your time in reaching a decision and delve into the many options. After all, you will have your front door for decades to come, so careful consideration will pay dividends. And my advice is not only to be guided by catalogues and configurators, but to visit a Finstral Studio for a first-hand experience of the product. Only there can you gain a sense of how the door swings, whether it feels heavy or light, what it sounds like when it closes, and what impact the various colours and finishes generate. Your personal counselling session will often bring to light aspects you may not even have thought about. It is far easier to decide on a door that you yourself have already opened and closed.



Come and see our doors first-hand: at the Finstral Studio, clients will always find a variation of up to date products and samples to touch and try out.

Shape

→ Transition from frame to leaf

Transition from frame to leaf on interior

Flat Aluminium

Flush elevation with modern, continuous transition from frame to leaf.

Step Aluminium

Offset elevation with traditional, stepped transition from frame to leaf.

Door leaf shape

Planar

Modern-look door leaf with continuous surface.



Frame

Traditional-look door leaf with step between leaf frame and leaf infill.



Glazing bead

For a reduced, rectilinear or profiled look.



Step uPVC

Offset elevation with traditional, stepped transition from frame to leaf.



Handles/Hinges

→ Lever handle

A handy device.

With your choice of lever handle – whether as a single handle or as a double-handle set for inside and outside – you are adding a focal point on the interior face of your front door. Pure brass handles are always provided with a PVD coating that vouches for a long-lasting, visually flawless finish. Interior lever handles are combinable with all push handles featured from page 98 onwards.



574

Series 11

Aluminium
Clear anodised ↑
Black anodised
Full-strength/special effect colours¹



575

Series 12

Aluminium
Clear anodised ↑
Black anodised
Full-strength/special effect colours¹

Stainless steel
Colourless



576

Series 13

Aluminium
Clear anodised ↑
Black anodised
Full-strength/special effect colours¹

Stainless steel
Colourless



527

Aluminium

Clear anodised ↑
Black anodised

Stainless steel
Colourless



532

Series 11

Aluminium
Clear anodised ↑
Black anodised
Full-strength/special effect colours¹



533

Series 12

Aluminium
Clear anodised ↑
Black anodised
Full-strength/special effect colours¹

Stainless steel
Colourless



534

Series 13

Aluminium
Clear anodised ↑
Black anodised
Full-strength/special effect colours¹

Stainless steel
Colourless

¹ Wood decor colours are not possible.



577

Series 14

Aluminium

Clear anodised ↑

Black anodised

Full-strength/special effect colours¹



578

Series 15

Aluminium

Clear anodised ↑

Black anodised

Full-strength/special effect colours¹

Stainless steel

Colourless



573

Series 16

Aluminium

Clear anodised ↑

Black anodised

Full-strength/special effect colours¹



535

Series 14

Aluminium

Clear anodised ↑

Black anodised

Full-strength/special effect colours¹



536

Series 15

Aluminium

Clear anodised ↑

Black anodised

Full-strength/special effect colours¹

Stainless steel

Colourless



526

Series 16

Aluminium

Clear anodised ↑

Black anodised

Full-strength/special effect colours¹



Lever handle for motorised lock without cylinder

Knob 527 and all series 11 to 16 lever handles can be used without cylinder rose for the cylinder-free motorised lock. When activated, they send an electronic signal for unlocking to the hardware components.

Handles/Hinges

→ Lever handle



500

Aluminium
White painted
Pearl White painted
Clear anodised ↑

Stainless steel
Colourless
Brass-coloured glossy



571

Aluminium
Clear anodised ↑
Black anodised

Stainless steel
Colourless



508

Aluminium
Clear anodised ↑
Black anodised

Stainless steel
Colourless



502

Aluminium
Clear anodised ↑
Stainless steel colour
anodised



570

Aluminium
Clear anodised ↑
Black anodised

Stainless steel
Colourless



561

Brass
Chrome brushed ↑
Black



562

Brass
Chrome brushed ↑
Black
White



509

Aluminium
Clear anodised ↑
Black anodised

Stainless steel
Colourless



563

Brass
Chrome brushed ↑
Chrome glossy



564

Brass
Chrome matt ↑



565

Brass
Clear coated ↑

Handles/Hinges

→ Push handles

Always convenient to use.

Front doors with cylinder-free locking can be fitted with a push handle on the interior. The door is unlocked at the press of a button located above the handle.



E436

Stainless steel
Colourless ↑

Handle height 110 mm
Handle width 110 mm

With push-button for door opening, including white LED ring above handle



E455

Stainless steel
Colourless ↑

Handle height 190 mm
Handle width 145 mm

With push-button for door opening, including white LED ring above handle



E528

Aluminium
Black anodised

Stainless steel
Colourless ↑

Handle height 45 mm
Handle width 45 mm

With push-button for door opening, including white LED ring above handle

Single-leaf door, FIN-Door Step Planar – Step Planar aluminium-aluminium, model 01 in 583 Sablé Anthracite with infill panel in wood 7x04 Oak smoked Nature oiled, push handle 528 Black anodised, with push-button for door opening with motorised lock without cylinder.



Handles/Hinges

→ Exposed or concealed

Visibly robust – extra-easy-care.

Hinges ensure that your door hangs firmly in the frame and still swings smoothly and silently even after many years of service. They are available in two different types/shapes.

Exposed hinges

The door leaf and frame are connected by visible barrel hinges: apart from their high stability, they are plain and unobtrusive. Depending on the door frame material, they are colour-matched.

uPVC*



Aluminium**



Concealed hinges

With the hinges concealed under the door leaf, the front door's overall appearance is determined by elegant, rectilinear forms. Moreover, such doors are even easier to clean. Doors with concealed hinges have a maximum opening angle of 90°.

Concealed Silver*



Concealed Black**



For Flat leaf on interior



Concealed on exterior



Concealed on interior



* FIN-Door 77, 90, 124

** FIN-Door 78

*** Required for leaf widths from 1,200 mm



Single-leaf door, FIN-Door Step Frame – Step Frame uPVC-uPVC, model RU5 in 45 White satin finish, lever handle 584 in M905 Jet Black matt.

Interior → Operation

For safe, intuitive use.



Opening actions
User comfort
Safety in use



Opening actions → Hanging

Open sesame.

It is often the building that dictates how the front door has to open. Yet, the required user comfort can also be a factor. Finstral caters for all options.

Single-leaf
Left-hung

Single-leaf
Right-hung

Double-leaf

Inward-
opening



Outward-
opening



Single-leaf door, FIN-Door Step Planar – Step Planar aluminium-aluminium, model 01, F45
White satin finish fine texture, handle 509 in stainless steel, left-hung.

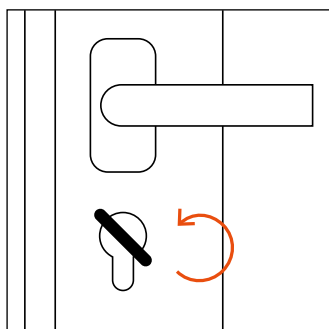


User comfort

→ Key

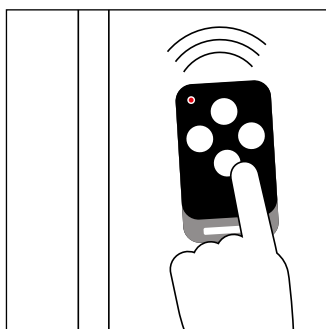
From traditional to smart.

You can, of course, use a traditional key to lock and unlock your Finstral front door on either side. However, all doors are also available with motorised locking: this additionally provides for reliable and convenient operation by remote control, smartphone or finger scan.



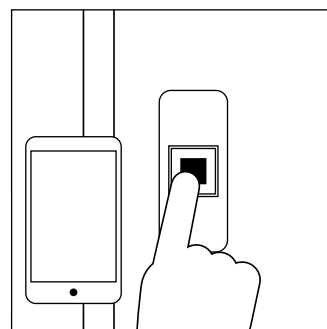
Key

The door can be locked and unlocked from the inside and outside via the cylinder using a key. More information on locking cylinders can be found under [Exterior → Protection → Burglary](#)



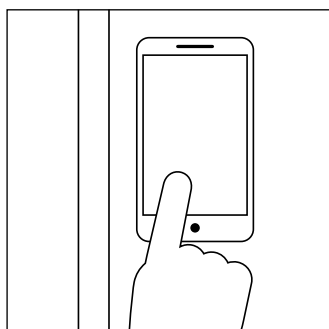
Remote control

Your front door can be reliably opened by means of a remote control, operated from the inside or outside.



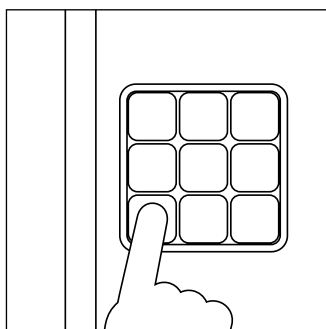
Finger scan with app

The finger scan offers you the convenience of being able to open your door without a key. It is managed via an app.



Smartphone

Use an app on your smartphone or tablet for straightforward operation of your door via Bluetooth or WLAN. Precondition: finger scan or cylinder-free locking.



Smart home integration

The front door can be integrated in your existing home control system. Precondition: motorised locking. The cylinder-free locking option already includes the smart home control system.



Door with cylinder lock, remote control



Door without cylinder lock, with finger scan and smartphone

User comfort → Finger scan

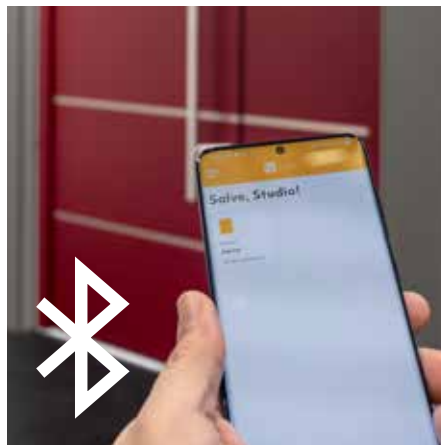
Smart finger scan.

Searching for keys is a thing of the past. Place your finger on the scanner – and the door opens. The device also provides permanent visual feedback via the surrounding LED lights, which indicate the present status through various colour combinations of blue, green, yellow and red.



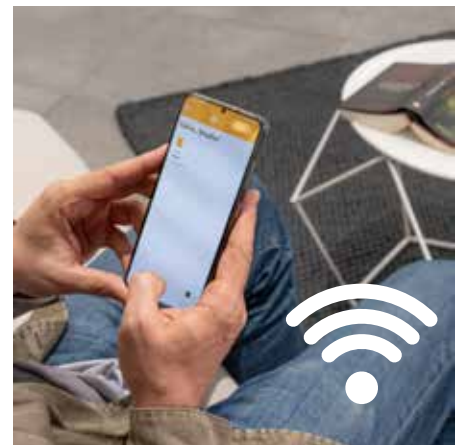
Farewell to the key.

To open the door, simply run your index finger over the sensor. This will provide you and anyone authorised by you with access to your home at any time. As standard, the finger scan cover is in stainless steel – which can be painted in a choice of some 200 colours.



Close-range operation via Bluetooth.

With the finger scan, you can simply use your finger to open the door. The finger scan is conveniently managed via an app on your smartphone. The app connects up to the finger scan via Bluetooth whenever you are near the front door. In this way, you are able to save, manage and delete users directly on the spot. You can also use the app instead of your finger to open the door.



Operation from anywhere via WLAN.

Not only does the finger scan offer you the convenience of keyless door opening when you are on the spot. The relevant app enables you to open it at any time from anywhere in the world. You can also spontaneously save, manage and delete up to 20 further users, allocate time slots or find out at any time, via push notifications, who has entered your home.

The finger scan border is available in all aluminium colours. It blends perfectly with the door or handle or, conversely, may be used to create an intentional colour contrast.



User comfort

→ Locking and unlocking

Door open, door closed: always the best means of operation.

Your front door should be easy and convenient to lock and unlock in exact accordance with your wishes. But which locking system best suits your needs? Presented below is an overview of our various systems and the options for locking, unlocking and operation that are combinable with each.

		Non-electric opening and closing			
		Manual lock: manual unlocking, manual locking		Self-locking lock: manual unlocking, automatic locking	
Locking points		Up to 1999 mm LH: 3-point locking From 2000 mm LH: 5-point locking		Reinforced 5-point locking	
Unlocking	Manual (key)	Yes		Yes	
	Finger scan with app (Bluetooth and WLAN)	No		No	
	Remote control	No		No	
	App	No		No	
Locking	Manual (key)	Yes		Yes	
	Automatic/mechanical	No		Yes	
	Motorised	No		No	
Additional fittings	Electric door strike	No		No	
	Sensors (connection e.g. to alarm system)	Optional		Optional	
	Daytime unlocking	Optional		Optional for lock with day-latch function	
	Anti-panic function	No		Optional	
	Smart home connection	No		No	
	Individual locking points	   2 roller cams1 door latch with bolt2 steel swing bolts		  2 latch bolts and 2 swing bolts1 door latch with bolt	

Electric opening, non-electric closing		Electric opening and closing	
Self-locking lock with opening motor: motorised unlocking, automatic locking		Motorised lock with cylinder: motorised unlocking, motorised locking	Motorised lock without cylinder: motorised unlocking, motorised locking
Reinforced 5-point locking		7-point locking	Up to 2051 mm LH: 2-point locking Up to 2401 mm LH: 3-point locking From 2401 mm LH: 4-point locking
Yes		Yes	No
Yes		Yes	Yes
Yes		Yes	No
No		No	Yes
Yes		Yes	No
Yes		No	No
No		Yes	Yes
No		Optional	No
Optional		Optional	Included
Optional for remote control with control module (= permanent-open function)		Daytime unlocking optional; permanent-open function possible for remote control with control module; day-latch function possible for remote control with control module and electric strike	Included (with app; not possible with finger scan)
Optional		Included	No
Optional		Optional	Optional
 2 latch bolts and 2 swing bolts		 2 swing bolts and 4 roller bolts	 1 door latch with bolt
 1 door latch with bolt		 2 to 4 locking points with horsehead mechanism	

To maximise living comfort, Stefano Piraccini and Margherita Potente integrate smart home technologies in their projects. The low-energy buildings which they design are equipped with solar and heat recovery systems as well as automated home control systems. Welcome to the smart future of living.

“A smart home starts at the front door.”

How do smart homes make the everyday lives of their occupants easier and more comfortable?

Margherita Potente: “The smartphone has enabled us to conduct a dialogue with the architecture. This development has at the same time opened up a wealth of options to promote sustainability: On days of strong sunshine, we can automatically darken windows and glass doors to prevent the building from overheating – or, alternatively, admit sunlight into the house to exploit the natural warmth for heating. Moreover, we are now able to communicate with a whole range of electronic devices. Which, for example, means that a hot lasagne can be ready and waiting in the oven when we arrive home. And while lying on the beach, we can conveniently open the front door for the neighbour who is watering the plants during our holiday.”



Architects Stefano Piraccini and Margherita Potente jointly run the architectural practice Piraccini+Potente in Cesena. They focus on the design of sustainable buildings, in which they are constantly integrating innovative technologies.



The Shell Passive House: the Finstral front door with its simple, planar look serves as a convenient entrance and exit point for this low-energy house in Cesena.

That's true. Opening the front door remotely can be very practical. What other front door functions can smart homes offer?

Stefano Piraccini: "Searching for keys is a thing of the past and you can grant various users access rights, e.g. via QR or barcode. Another crucial aspect is security: the alarm system can link up to your smartphone – so not only can you check whether the door is closed and locked, you will also be immediately notified in the event of a break-in. Yet, even without being connected to a smart home system, front doors can already be made more intelligent, e.g. by fitting them with a lock with finger scan or remote control. That alone provides greater day-to-day convenience."

Which present-day clients opt for a smart door?

Margherita Potente: "You can generally say that most people who opt for smart home systems and intelligent doors have a certain affinity for digital technology. At same time, the decision is mainly dictated by individual needs: in multi-storey houses or apartments, for instance, a remote control for the door can be very convenient. And, particularly for people with physical disabilities, an intelligent front door often makes life far easier."

Do you view smart home technology as a passing trend or is living set to become ever smarter in future?

Stefano Piraccini: "Our basic assumption is that smart home systems and smart doors will be adopted more and more often. Even now, digital systems for monitoring solar installations and living space ventilation as well as for controlling lighting or robot vacuum cleaners are already standard on our projects. The younger generations for whom home ownership may become a prospect in five to ten years' time are digital natives. For them, these technologies are already part and parcel of everyday life."

User comfort → Threshold options

Where beauty meets convenience.

Whether you opt for a flat threshold, zero threshold or no threshold at all – Finstral doors always guarantee a smooth transition between indoors and outdoors.



Flat threshold.

Our standard: a flat (2 cm), barrier-free, wheelchair-accessible threshold combining a simple aesthetic with supreme performance – maximum thermal insulation and driving rain tightness.



Zero threshold (0 cm).

Finstral offers flat, zero threshold models in conjunction with doors fitted with an integral drop-down seal.



No threshold.

With sheltered front doors, the threshold can also be completely omitted for aesthetic reasons. Here too, we offer doors fitted with a drop-down seal.

→ Accessories

Useful extras.

We can always offer the accessories you require to tailor the front door to your own particular needs.

Door closer

This ensures that your door closes automatically. We offer door closers in a variety of models: exposed and concealed, for inward- and outward-opening doors and, on request, in all RAL colours to match your door. Please feel free to contact us.

Door viewer

Especially useful in the absence of a telephone entry system. The height can be adjusted to suit the particular door leaf. The door viewer is available for all doors without glass.

Letter plate

As an alternative to a wall-mounted letterbox – only recommended for interior or sheltered doors. The letter plate will impair the door's thermal insulation, airtightness and watertightness performance.

Door holder

This holds your door open, e.g. for ventilation purposes or when moving furniture. Available in white, brown and light silver.



Door stop

Always a good idea when you want to prevent the door or handle from striking the wall or a piece of furniture. Available with a chrome finish.

Safety in use

→ Locking cylinder and glass

Simply safe.

A front door must offer more than just easy operation. It must also be secure and reliably functional.



Lockable on both sides: our cylinders.

All Finstral front doors have door cylinders that are not only burglar-resistant, but also reliable and easy to use. Particularly important is the provision for locking and unlocking on both sides: even if a key is inserted on the inside, the door can still be locked and unlocked from the outside.



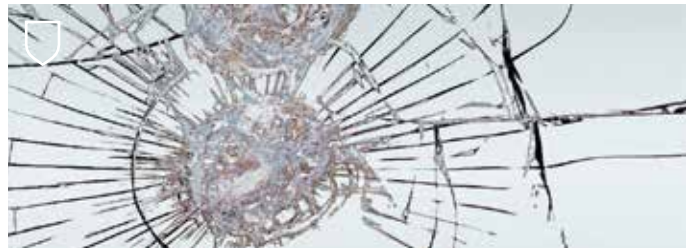
Also operable in the event of a power failure.

Doors with remote control, finger scan or smart home functionality are always fitted with a cylinder. This means that the door can still be operated in the event of a power failure. Doors with keyless, fully motorised locking are not provided with a cylinder. In the event of a power cut, continued operation is guaranteed for at least 12 hours.



Bodysafe toughened safety glass.

For front doors with a vision panel, sidepanel or full glazing, make sure you opt for the highly impact-resistant Bodysafe safety glass. It is also immune to high temperature differences that may trigger thermal breakage in normal glass. Should it ever be damaged, then it will shatter into small, blunt pieces, thereby preventing cut injuries.



Multiprotect laminated safety glass.

Laminated safety glass minimises not only the risk of burglary, but also the risk of injury: it comprises two glass panes that are bonded together with a highly tear-resistant film and are accordingly difficult to break through. If the glass is damaged, the splinters stick to the film.

→ Panic hardware

A safe exit.

Escape and anti-panic doors are governed by strict regulations so as to guarantee reliable functioning in an emergency.

Certified panic hardware.

The leaves, frames, handles and hardware of our doors are tested and certified by the Institut für Fenstertechnik (ift) Rosenheim and comply with the European guidelines based on DIN EN 179 and DIN EN 1125. The anti-panic function ensures that the door is openable at any time in an emergency

or panic situation, thereby enabling occupants to escape from the building and reach safety. Our panic hardware is included as standard with motorised locks. As an accessory, the panic hardware for self-locking locks is available with or without an opening motor.



400

Aluminium
Clear anodised ↑
White
Red
Panic bar



496

Stainless steel
Colourless/uPVC grey ↑
Colourless/uPVC green
Stainless-steel panic bar with plastics tubular handle on opening side



499

Stainless steel
Colourless ↑
Push bar



460

Stainless steel
Colourless ↑
Cranked interior lever handle



465

Stainless steel
Colourless ↑
Cranked interior lever handle



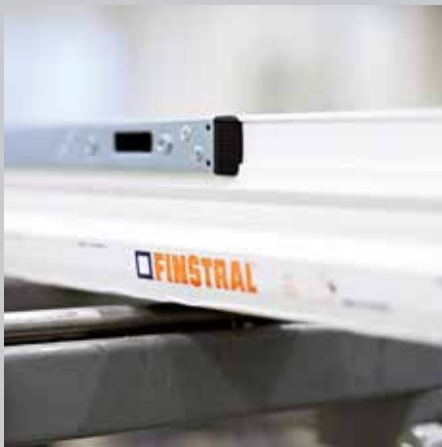
464

Stainless steel
Colourless ↑
Interior and exterior lever handle

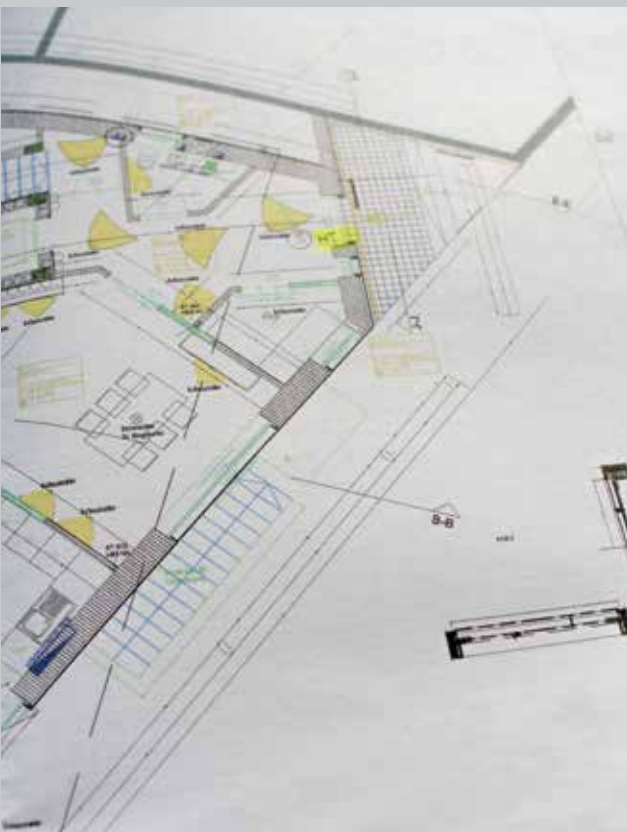
Ancillary services

→ Procedure

Smooth processing of your order.



Coordination
Installation
Acceptance



Coordination

→ Advice on the spot

Counselling at your home.

Our Finstral consultants will visit you on the spot to gain an exact impression of the project. The more familiar they are with the particulars and your personal needs, the more precisely they can tailor their offer. Would you like a home visit? Then please contact us: finstral.com/contact



Rough measurement.

The on-site visit also gives our consultants the chance to take an initial rough measurement of the front door as the basis for reliable pricing.



Clarification of installation procedure.

What is the size of the installation team? What exactly will be done? How long will it take? How will the rooms be protected during the works? Where will the old front door be stored? Our consultant will answer all your installation-related questions and explain the procedure in detail.

Typical questions during home visit:



Tightness

Is the door sheltered or is it heavily exposed to rain and therefore needs to be particularly weathertight?



Sound insulation

Are there noise sources such as busy roads nearby that necessitate improved noise protection?



Installation

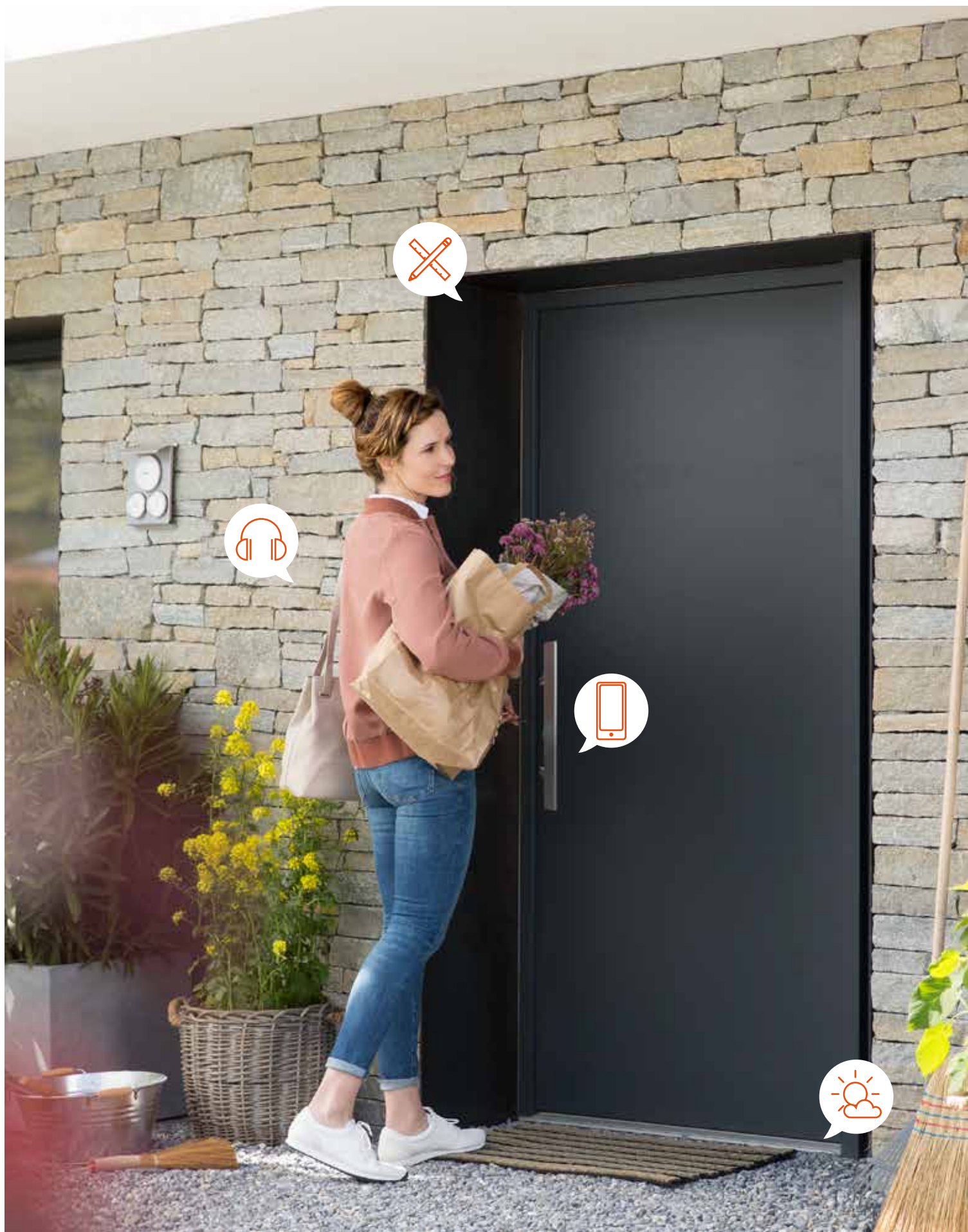
Which type of building connection is feasible? Can the existing frame be used or does a new frame need to be installed?



Smart home

Is an electronic lock required? How can the door be connected to the power supply?

Is the door heavily exposed to weather action? Is it located in a noisy environment? Can the door be fitted for electrical operation?
A home visit will enable our specialist consultants to gain an exact impression of the requirements to be met by your new front door.



Coordination → Advice at the Studio

Experience Finstral products first-hand for a perfect design.

The Finstral Studio is the ideal place for drawing up the design of windows, doors and glass walls. Like kitchen studios or bathroom exhibitions, it enables you to experience the products first-hand, try out many things yourself and familiarise yourself with the wealth of possible configurations. You will be advised by trained experts and receive an answer to every question on windows and doors.

What to expect at our Finstral Studios.



Bring your own ideas along.

Together we will compose your dream door. You will be surprised at what is possible.

Discover variety.

Wood, aluminium or uPVC after all? Ultramodern or preferably classic? Be inspired by materials, shapes and colours.



Touch, open, close.

First-hand experience is the best way to find out what exactly makes a good front door. You can try out everything in our showroom.

Competent answers from experts.

A front door is an investment for decades. And its various aspects are amazingly complex. Our experienced consultants will help you with your design ideas.

Look out for the “Finstral Partner Studio” label.

 **FINSTRAL**

**Partner
Studio**

Always featuring an up-to-date product exhibition with experienced consultants: a Finstral Studio is the ideal place for perfecting your design.

There are astonishing differences in the quality of front doors. That is why we advise you not to buy any door until you have first opened and closed it.



Coordination → Design aids

All you need to perfect your design.

From personal counselling to our door configurator or the ordering of samples: at Finstral, you are provided with everything you need for the customised design of your front door.



References

Look for examples and find inspiration:

- 100-plus references from across Europe
- Documented by photos, short reports, product information
- New-build and refurbishment projects
- Private, commercial and hotel schemes
- Windows, doors, glass walls
- Also available as pdf

finstral.com/references



Information material

Order detailed documents and aids free of charge:

- Installation guidelines
- Brochure on European product standard
- Operating instructions for windows and doors

finstral.com/prospectuses

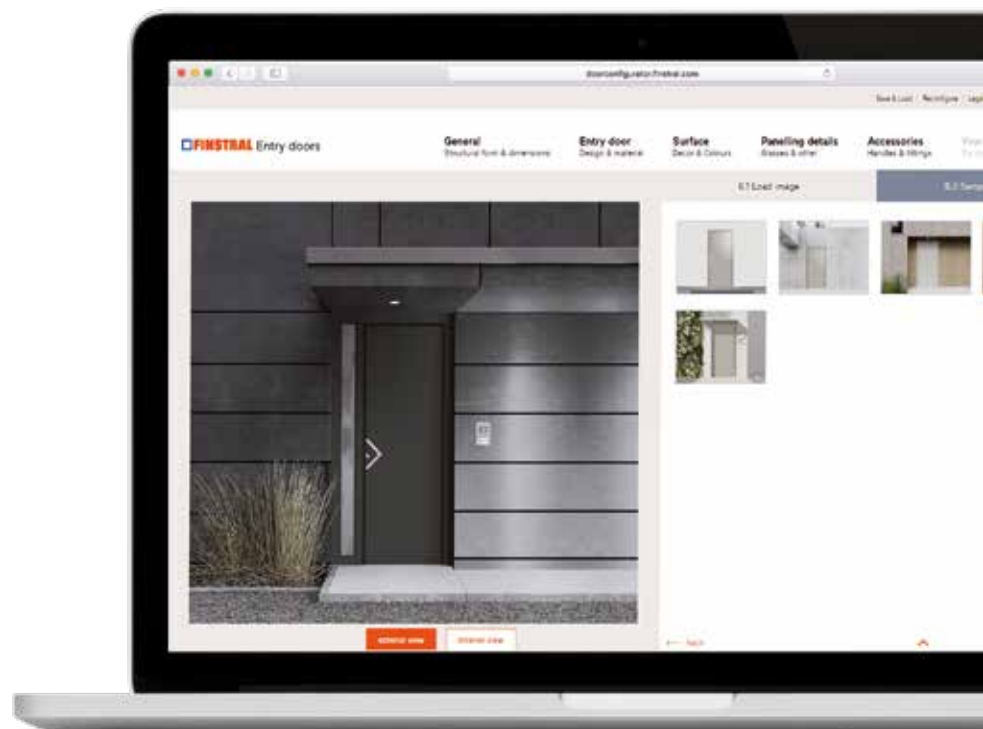


Samples order

Gain a “real-life” experience of our materials by requesting product samples:

- Materials, colours and finishes
- Frame profiles
- Corner samples

finstral.com/samples



To the door configurator

Would you like to design your very own dream door? Nothing could be easier! With just a few clicks, you can select the material, colour, model, infill panel variant and fittings – and your new Finstral front door will appear right in front of you!

doorconfigurator.finstral.com

Installation

Clear-cut procedures and on-time delivery.

By providing timely notification of delivery, agreeing binding dates and clarifying the individual operations in detail, we are able to avoid any delays and uncertainties on site. These are, after all, basic preconditions for the good-practice installation of a perfect front door.

Fitting by trained installers.

Finstral attaches high priority to training the installers, regardless of whether they work for us or our partners. A further crucial factor is the provision by Finstral, for every on-site situation and door type, exact building connection drawings – many of which are independently certified by the Institut für Fenstertechnik (ift) Rosenheim.

The installers are issued with comprehensive specifications on the work procedure together with concrete recommendations on the best materials to use. Detailed guidelines on the installation of electrical door components are available at finstral.com/manuals.



Acceptance

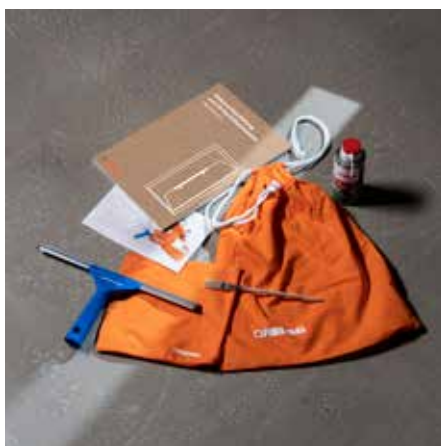
Clear, correct, transparent.

This is how Finstral operates – from the initial counselling session to acceptance of the completed works and payment.



Invoicing and declaration of performance.

We will, of course, provide you with a prompt and transparent invoice and are always personally available to answer any queries you may have. You will also receive a declaration of performance along with the invoice. In this, we document the performance features of your new windows and doors.



Acceptance and instruction.

Final quality control and acceptance are of course carried out together with you. This also gives you the opportunity to clarify any further points on the operation and maintenance of the door.



Detailed operating instructions.

Upon completion of the installation works, the installer will present you with the operating instructions, which contain exhaustive descriptions of all the functions of your new windows, doors and glass walls. Here you will also find guidance on care, maintenance and troubleshooting. You can take a look at finstral.com/manuals

Ancillary services →
Support
Reliable and available
for decades.



Warranties/Certificates
Customer service
Architect service



Warranties/Certificates → Product quality

Always certified quality.

Not only can we confidently assert the quality of our products and services, we can also supply evidence in the form of quality marks and certificates – of which we can offer more than any other European window manufacturer. Are you interested in the full details?

Then please contact us at finstral.com/contact



Certified ift-quality doors

The ift-quality mark certifies the fitness for use and long-term performance of our door systems, including all components (infill panels, hardware, gaskets etc.), for above-average exposure.



CEKAL quality certification for insulation glass

The CEKAL certification for insulation glass defines and guarantees product quality and its verifiable quality control.



“Vinyl Verified” label for uPVC quality

The VinylPlus® “Vinyl Verified” product label testifies to outstanding achievements in terms of sustainable development for companies in the uPVC construction industry.



Qualicoat Seaside certification for aluminium coating

Coated aluminium finishes meet the requirements of the Association for Quality Control in the Lacquering, Painting and Coating Industry for protection against aggressive environmental influences such as exhaust gases or salty air in coastal areas.



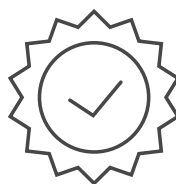
QB quality mark for uPVC profiles

The QB quality mark for uPVC window profile systems defines and guarantees product quality and its verifiable quality control.



Health-related evaluation of VOC emissions from construction products

The construction product meets the required conditions and is suitable for use in building interiors from a health point of view.



At Finstral, every front door is made to perfection. Durable and colour-fast. And, in the event of any defects, you can of course fall back on extensive warranties that cover every component of your door. Many of our warranty services even go beyond the minimum statutory requirements.

Warranties/Certificates → Service and process quality

Certification of our installation and processes.

Only a properly fitted door can vouch for an optimum seal, maximum thermal insulation and long-lasting user comfort. For this reason, we have our building connections and workmanship independently tested and certified by the Institut für Fenstertechnik (ift) Rosenheim. We set the highest quality standards – not only for our products, but also for ourselves. Our management quality is continuously audited and ranks among the most-certified in the industry.



Certified building connection drawings

Building connection drawings bearing this mark have been checked and approved by the Institut für Fenstertechnik (ift) Rosenheim.

Certified installation experts

Installation partners with this label have received instruction in workmanship by Finstral and the Institut für Fenstertechnik (ift) Rosenheim. The standard of workmanship of these companies is independently audited every year.

Quality management to ISO 9001

Meeting the highest requirements is not limited to the development and manufacture of products, but is the principle behind all our operations. The various divisions of Finstral's work organisation are checked for quality capability under the certified quality management system to ISO 9001.



Occupational safety to ISO 45001

Everyone working at Finstral must have a safe workplace – to that we are committed. Accordingly, we make no compromises with regard to inspection: we certify the continuous and preventive improvement of occupational safety throughout the company in accordance with ISO 45001.



Environmental management to ISO 14001

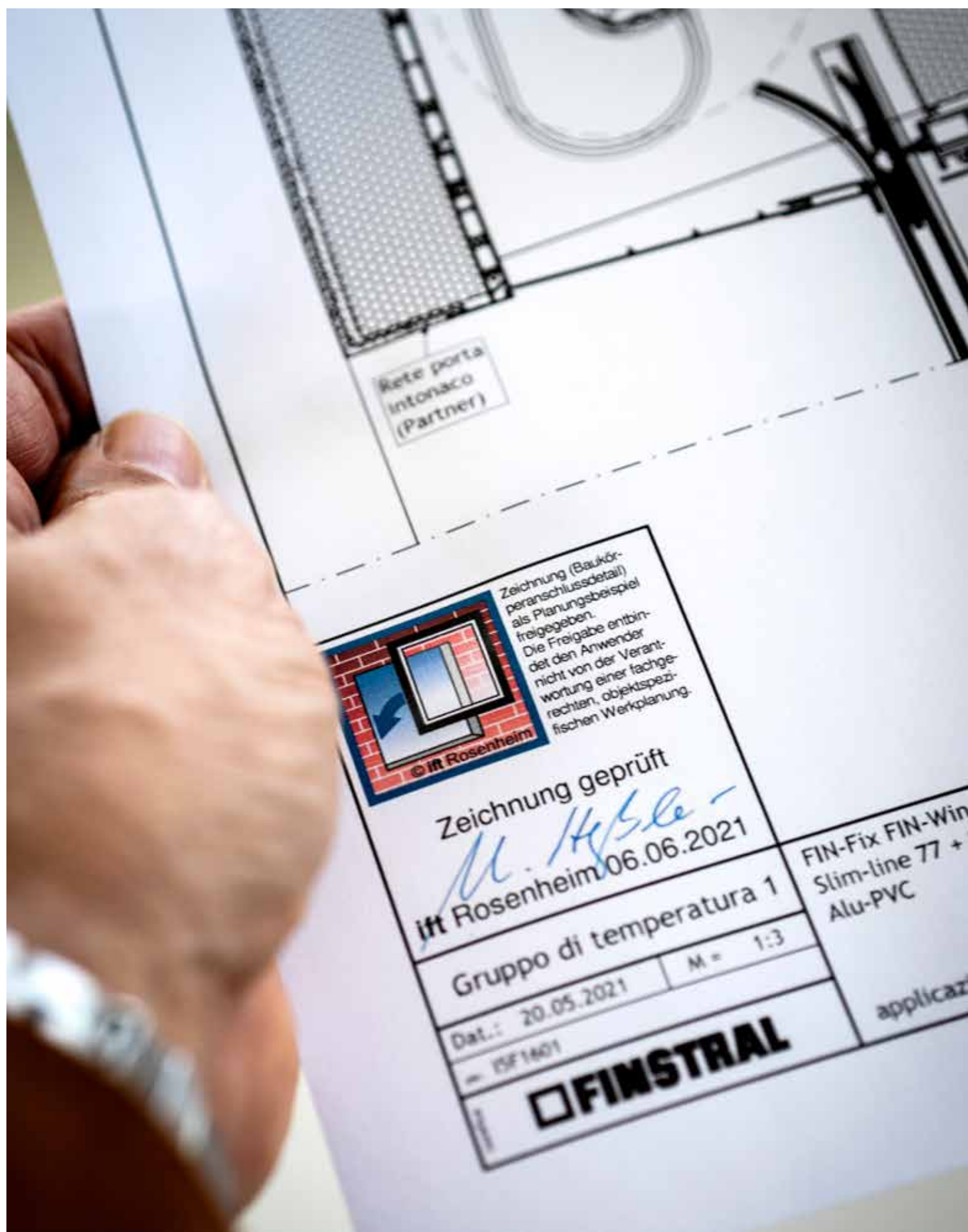
We care very strongly about the sustainable use of resources. The certified environmental management system to ISO 14001 vouches for the continuous and preventive improvement of the company's environmentally oriented services.



Energy management to ISO 50001

Our windows help to save energy. But we at Finstral also conserve valuable resources by consistently working to reduce our own energy demand. The certified energy management system to ISO 50001 vouches for the continuous optimisation of energy consumption in all plants and administrative buildings.

From Finstral, you will receive a building connection drawing for each installation situation together with specifications on the installation procedure and materials. We have the largest library of building connection drawings in Europe, numbering around 1,000, some 400 of which have been certified by the Institut für Fenstertechnik (ift) Rosenheim.



Customer service

We are always at your side.

Front doors are in service for decades. And, naturally enough, the occasional query may arise during this period. That is another thing we are glad to handle – with forward-looking planning and our own in-house service centre. This has provided our customers with reliable support for over 50 years.



Identification number.

Every Finstral door has an identification number. Finstral stores all product and order data to allow tracing at all times. As a result, we always have all information at hand should you ever have a query.



Generally low maintenance.

Finstral pays particular attention to designing its doors for low maintenance. In repeated opening and closing tests, front door models of technically challenging sizes (e.g. with wide, heavy leaves) are subjected to 200,000 opening operations.



Spare parts available.

In the manufacture of our doors, we always provide for their optimum recyclability after use. To ensure that this time is as far in the future as possible, we supply you, even decades later, with spare parts for your door to cover most repairs.



In-house service centres throughout Europe.

You can also depend on us after installation. Finstral operates an in-house customer service centre in all its sales regions. This enables us to support our dealer partners and ensure that you are never left on your own should problems arise with the performance of our products.

Do you have any queries?

finstral.com/contact

Architect service

Always the best service for great ideas.

We also offer architects exactly what they expect. From building connection drawings and product data sheets to CAD data in DWG format, you can obtain all the details you need from Finstral's Architect Service or directly from the Architect Service portal.

More information can be found under finstral.com/architectservice

Everything about the product.

Single-family house? Company headquarters? Refurbishment of an urban villa? Precise design work requires accurate information. We will provide you with everything you need to know about Finstral products for every stage of design.

Expert advice.

Cultivating personal contacts is particularly important for us. Our own planning consultants are at hand – even with a visit to your site – to provide you with advice and support from the initial stages of design to installation.

Everything for the design.

Our front doors are always custom-made in accordance with your specifications. We will support you with know-how and experience in all your design detailing to ensure that you find the perfect solution for every project.

Come and see Finstral first-hand.

Finstral always acts as a single-source provider. You can experience this live on our premises: why not come to one of our Studios, take a factory tour or join us on a visit to one of our reference projects?

Whether through a visit to a Finstral Studio, a guided factory tour or participation in one of our architecture salons – we offer architects numerous opportunities to get to know us.



As second-generation head of Finstral AG, Joachim Oberrauch knows that the company would probably not exist in its present form if sustainability had not been given high priority from the very start.



As second-generation President of the Board of Directors, Joachim Oberrauch benefits from the sustainable decision-making of his father and his uncle that targeted consistently supreme quality standards. That is why Finstral single-mindedly follows this path.

“Sustainability is not a goal, but an attitude.”

Mr Oberrauch, what does sustainability mean to you personally?

For me, sustainability means creating something that lasts and offers benefits over a long period – which is basically the same as consuming ever fewer resources. As I see it, sustainability is not a goal, but an attitude – a mindful one.

In what way does Finstral act sustainably?

By being mindful of all issues across the board. Our products have a service life of 30 to 40 years or even longer. Performance and aesthetics should thus endure for as long as possible. At the same time, energy use for manufacturing should be rationalised and minimised. The fact that we produce almost everything ourselves sets us apart from many other companies in the industry. This also gives us the pow-

er, from the very outset, to fashion top-performing products. From the early development stages, we carefully consider which materials to use and how to combine these in the best possible way.

Finstral's product range now offers immense variety. How do you manage to ensure that every product model is sustainably designed?

This can be achieved with the help of consistent modularity. As a result, almost everything in the Finstral range is combinable with everything else. Yet, modularity also saves us the considerable effort – plus energy and resources – needed for the production and storage of product variants. Another key aspect concerns our intelligent installation solutions. Even

today, on-site assembly is often every bit as complicated as it was 30 years ago. With mounting frames for new-builds and slide-on systems for refurbishment, we offer smart alternatives that consume significantly less energy and material.

How does Finstral promote sustainability?

By constantly scrutinising and single-mindedly optimising all its processes. For production, for example, we operate an energy management system to ISO 50001 and an environmental management system to ISO 14001 to verify processes, continuously improve our energy performance and systematically identify weak points.

Year after year, we invest in improvements to our systems and processes – from the deployment of state-of-the-art, energy-efficient machinery and switchover to LED lighting to the installation of photovoltaic panels on the factory rooftops. We now use 100 % green electricity at our Italian and German plants. The manufacture of our uPVC product components is completely waste-free as all production residue is collected, separated into pure components and reused

to make new profiles. Our new recycling facility at Kurtatsch (South Tyrol/Italy) came into operation in May 2021. We are currently working towards reducing packaging: for consignments that we receive from our suppliers and that we send to our customers.

Finstral has existed since 1969. What did sustainability mean back then?

To understand that, we first need to talk about wood as a construction material. Wood is a top-quality and highly emotive material with a strong feel-good factor. Its downside is that it weathers over time. And it was out of this very dilemma that Finstral was born: my father, a joiner by trade, set about looking for a durable, easy-care alternative and his attention was drawn to uPVC as a colour-fast and extremely weather-resistant material. He was so convinced that he decided to break new ground. It can be said with hindsight that even Finstral's foundation was prompted by sustainability awareness.



The modern recycling plant ensures the in-house reuse of all reject bars and offcut from the uPVC profiles produced by the company.

Windows are our life: the Finstral family business.

“I originally thought windows were boring,” says Hans Oberrauch (†) – the man who founded Finstral in 1969. “But the opposite has turned out to be the case. Windows are a neverending story.” The headquarters are to this very day located at the place where everything began – in Unterinn am Ritten, near Bozen in South Tyrol, Italy. It was from here that Hans, together with his brother Luis, built the company to its present size: with 14 plants, over 1,600 employees, 27 company-owned Finstral Studios and some 900 builders’ merchant partners in 14 countries, Finstral now ranks as one of Europe’s leading manufacturers of windows, doors and glass walls. Finstral’s doors, like its windows and glass walls, offer maximum variety thanks to their modular design – which means they can always be selected to match the windows.

Apart from a passion for delivering the perfect product, a tradition of entrepreneurial responsibility also continues. Finstral is still fully owned by the family. With Joachim, Florian, Verena and Kristin Oberrauch, the children of Hans and Luis have taken over the operational management – and are heavily involved in day-to-day operations, from development and production to the management of key markets.



Windows are a never-ending story – and, at Finstral, an intergenerational one.
From left to right: Florian, Kristin, Luis, Hans (†), Verena, Joachim Oberrauch.

At home in South Tyrol, leaders in Europe: the company headquarters in Unterinn.

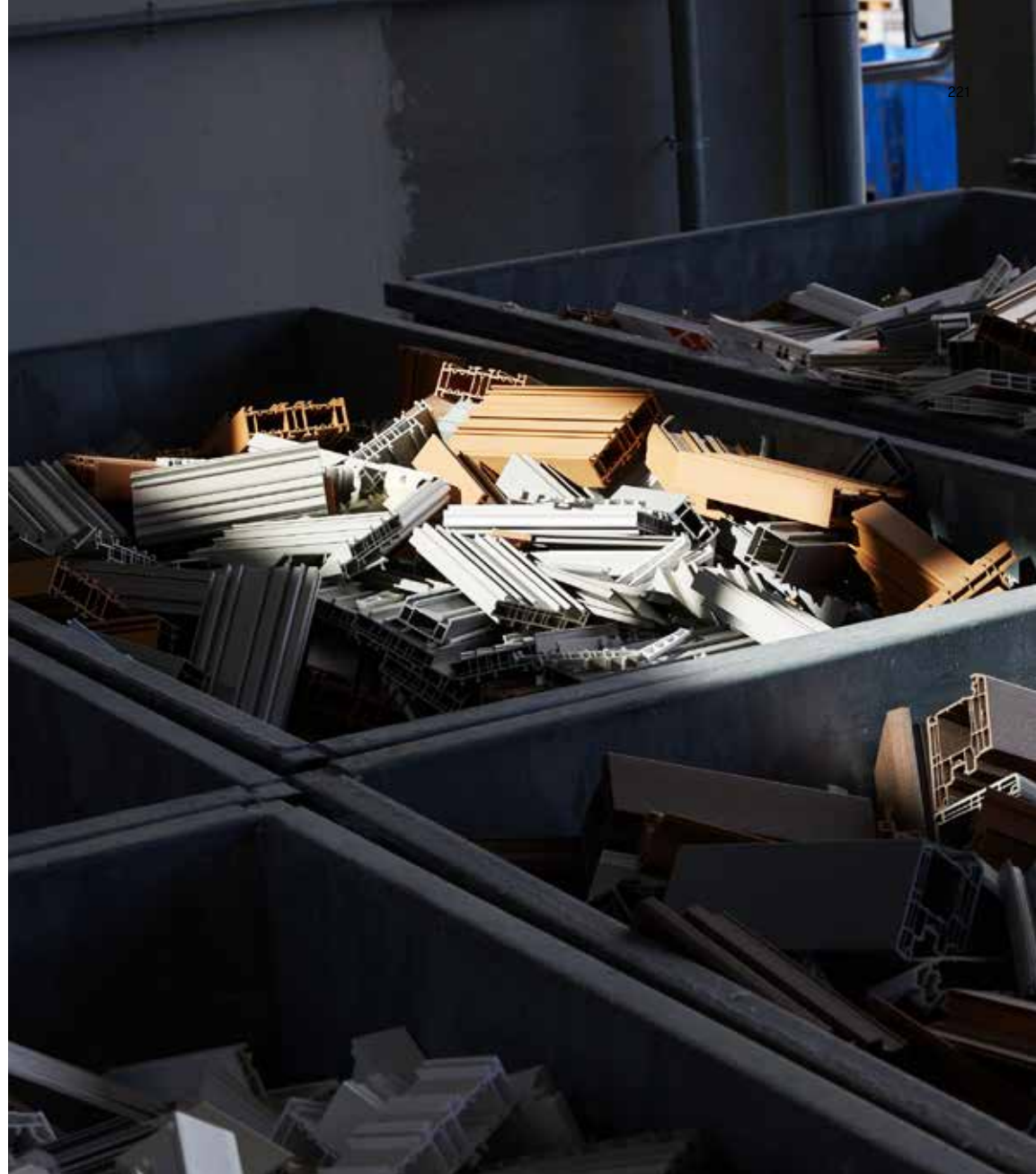


Always from a single source: production at Finstral

Ever since its foundation over 50 years ago, Finstral has been guided by a conviction that has proved to be the key to success: if you want something done properly, then do it yourself. That is the only way, after setting a high bar for quality standards, of always meeting them. From development, material processing and manufacture to delivery, installation ... and recycling: everything needed for a Finstral front door in its finished state always comes from a single source – from us.



Video of
factory tour



Far more valuable than it looks:
uPVC offcut from our production
in Kurtatsch (South Tyrol/Italy),
which is processed in our own
recycling plant.

1. Circular economy

Finstal produces hardly any waste. Only raw materials instead. That is because we process and reuse almost all material left over from production: the proportion of recycled uPVC used in the extrusion of our uPVC profiles is already 20 percent. We are also systematically adapting our aluminium profile powder-coating operations to the processing of secondary aluminium. During glazing production, only very little offcut remains after cutting the panes to size. This residue is nonetheless returned to the supplier for recycling. We also accept old windows and doors after replacement, dismantle these and recycle as much of them as possible. And thanks to their modular design, our products can be separated into pure, unmixed components at the end of their long life-cycle – and completely recycled.



Similar working principle to a pasta press: extrusion of a uPVC profile at our plant in Kurtatsch (South Tyrol/Italy).

2. uPVC profile extrusion

At Finstral, we develop and extrude all frame profiles ourselves. Yes, that takes considerable effort – but it pays dividends for us and our customers. This is the only way we can ensure that our own relentlessly high-quality uPVC formulation and the profiles it is used to manufacture translate into a perfect front door – with features that include a high-grade finish directly produced during extrusion, the narrowest of frames – and a modular product variety in which virtually everything is combinable with everything else.

3. Aluminium powder coating

Finstral offers over 250 aluminium colours in its range. To ensure the maximum durability of each of these on our frame facings, the edges and corners, for example, require extra-thick paint application. So we also took complete control of this process, set up a powder-coating facility and gained the necessary credentials to operate as a “chemical processing company”, certified by the Qualicoat Seaside label: this confirms that we meet all requirements for providing protection against aggressive environmental actions. This is the only way to keep on learning and improving ... and now we can also finish window and door handles in any required colour.

Careful powder coating of an aluminium facing at our plant in Borgo Valsugana (Trentino/Italy), which is weighted down for its journey along the coating line. Here we use 120 different colour finishes every week.





Finished with mechanical precision:
coating of wooden fillets by a
robot at our woodworking plant in
Oppeano (Verona/Italy).

4. Woodworking

Finstral founder Hans Oberrauch comes from a family of joiners. We have now revitalised this expertise: since 2017, we have ourselves manufactured all real-wood frame facings from board products. We only process wood from sustainable forestry – and this very sparingly. And the fact that we only use this valuable material in the weather-sheltered interior also allows gentle treatments by applying water-soluble coatings or soft oiling. Wood remains real wood for the window's entire life-cycle ... without becoming hazardous waste.

5. Glass printer

Panes measuring up to 250 × 350 cm are printed with enamel paint on an industrial-sized glass printer directly on the production line at our glass factory in Oppeano. The panes then travel fully automatically into the glass hardening furnace, where the paints are permanently baked onto the surface at 670 °C and the panes toughened. A considerable portion of the energy needed for the furnace, printer and all other machinery on this production line is generated by the large photovoltaic system on the factory rooftop.

The glass printer applies the enamel paints with mechanical precision – and requires four times less paint than for manual application. Apart from full-surface colours, it can also print all types of image or pattern.





Automatically stowed away,
rearranged and retrieved – day
and night: view of our high-bay
warehouse in Kurtatsch (South
Tyrol/Italy).

6. High-bay warehouse

Finstral produces the most varied selection of windows, doors and glass walls in Europe: 650,000 units a year, in 14 plants in Italy and Germany. Each order represents a custom creation based on tailored measurements, materials, colours and functions. Our storeroom is the high-bay warehouse: this is where all uPVC and aluminium profiles needed for manufacture are kept in six-metre-deep drawers. They are assembled and dispatched in such a way that all components needed for production are made available “just in time”.

7. Assembly

Each door frame is assembled from individual profile bars made of high-grade uPVC, with the corners welded at a temperature of 260 degrees to ensure absolute weather-tightness. At Finstral, the custom-specified hardware is not installed on the frame, but already prior to assembly on the profile bars. This allows fully automated assembly with maximum precision and consistent quality. Moreover, glass panes and infill panels are always bonded to the frame for permanent stability and not just set on blocks. In this way, the overall design of our doors meets the utmost standards of performance, user comfort and durability. And, to be on the safe side, each door undergoes a thorough quality test prior to delivery.

The custom-specified hardware is precision-fitted to the profile bars at lightning speed prior to frame assembly. The fully automated process guarantees consistently high quality.



Range

Always everything at a glance.

With four frame and five leaf materials, almost 300 colours, nine frame shapes and three construction depths, Finstral offers you an elaborate range in which virtually everything is combinable with everything else. Here is an overview of our full door range in tabular form.



U_o The thermal transmittance of a door indicates the loss of heat due to its transmission through the building element to outdoors. The lower the value, the more energy-efficient the building.

R_o Component-specific, single-number value for airborne sound insulation. The higher the value, the better the airborne sound insulation performance.

		uPVC doors		
Frame material	Exterior	uPVC		
	Centre	uPVC		
	Interior	uPVC		
Leaf material		uPVC, aluminium, wood, glass, ceramics		
System (construction depth)		FIN-Door (77 mm)	FIN-Door (90 mm)	FIN-Door (124 mm)
		U _g 1-leaf (W/m²K), triple glazing	U _g 2-leaf (W/m²K), triple glazing	
		R _g standard (dB) / R _g best value (dB) for sound-insulating door leaves		
Shape	Flat Planar-Flat Planar			
	Flat Planar-Step Planar			
	Step Planar-Flat Planar			
	Step Planar-Step Planar	FIN-Door Step Planar-Step Planar 77 uPVC-uPVC	FIN-Door Step Planar-Step Planar 90 uPVC-uPVC	FIN-Door Step Planar-Step Planar 124 uPVC-uPVC
		0.74 / 0.79	0.72 / 0.77	0.74 / 0.79
		33(-1;-3) / 43(-2;-4)	33(-1;-3) / 43(-2;-4)	33(-1;-3) / 43(-2;-4)
	Step Planar-Flat Frame			
	Step Planar-Step Frame	FIN-Door Step Planar-Step Frame 77 uPVC-uPVC	FIN-Door Step Planar-Step Frame 90 uPVC-uPVC	FIN-Door Step Planar-Step Frame 124 uPVC-uPVC
		0.84 / 0.89	0.84 / 0.89	0.84 / 0.89
		-	-	-
	Flat Frame-Flat Frame			
	Flat Frame-Step Frame			
	Step Frame-Step Frame	FIN-Door Step Frame-Step Frame 77 uPVC-uPVC	FIN-Door Step Frame-Step Frame 90 uPVC-uPVC	FIN-Door Step Frame-Step Frame 124 uPVC-uPVC
		0.86 / 0.89	0.84 / 0.89	0.84 / 0.89
		-	-	-
Protection	Burglar resistance Standards (for doors taller than 2 m)	Five-point locking with two swing bolts, two roller cams and door latch bolt		
Colour/ Finish	Frame and leaf	10 uPVC colours, 252 aluminium colours, 12 ceramic colours, 7 glass enamel colours, 6 softwood colours, 9 hardwood colours, 5 precious wood colours		

Range

		Aluminium-uPVC doors		
Frame material	Exterior	Aluminium		
	Centre	uPVC		
	Interior	uPVC		
Leaf material		uPVC, aluminium, wood, glass, ceramics		
System (construction depth)		FIN-Door (77+8 mm)	FIN-Door (90+8 mm)	FIN-Door (124+3 mm)
		U _g 1-leaf (W/m²K), triple glazing		U _g 2-leaf (W/m²K), triple glazing
		R _g standard (dB) / R _g best value (dB) for sound-insulating door leaves		
Shape	Flat Planar-Flat Planar			
	Flat Planar-Step Planar			
	Step Planar-Flat Planar			
	Step Planar-Step Planar	FIN-Door Step Planar-Step Planar 77+8 Aluminium-uPVC	FIN-Door Step Planar-Step Planar 90+8 Aluminium-uPVC	FIN-Door Step Planar-Step Planar 124+3 Aluminium-uPVC
		0.74 / 0.79	0.72 / 0.77	0.74 / 0.79
		33(-1;-3) / 43(-2;-4)	33(-1;-3) / 43(-2;-4)	33(-1;-3) / 43(-2;-4)
	Step Planar-Flat Frame			
	Step Planar-Step Frame	FIN-Door Step Planar-Step Frame 77+8 Aluminium-uPVC	FIN-Door Step Planar-Step Frame 90+8 Aluminium-uPVC	FIN-Door Step Planar-Step Frame 124+3 Aluminium-uPVC
		0.84 / 0.89	0.84 / 0.89	0.84 / 0.89
		-	-	-
	Flat Frame-Flat Frame			
	Flat Frame-Step Frame			
	Step Frame-Step Frame	FIN-Door Step Frame-Step Frame 77+8 Aluminium-uPVC	FIN-Door Step Frame-Step Frame 90+8 Aluminium-uPVC	FIN-Door Step Frame-Step Frame 124+3 Aluminium-uPVC
		0.86 / 0.89	0.84 / 0.89	0.84 / 0.89
		-	-	-
Protection	Burglar resistance Standards (for doors taller than 2 m)	Five-point locking with two swing bolts, two roller cams and door latch bolt		
Colour/ Finish	Frame and leaf	10 uPVC colours, 252 aluminium colours, 12 ceramic colours, 7 glass enamel colours, 6 softwood colours, 9 hardwood colours, 5 precious wood colours		

		Aluminium doors			
Frame material	Exterior	Aluminium			
	Centre	uPVC			
	Interior	Aluminium			
Leaf material		uPVC, aluminium, wood, glass, ceramics			
System (construction depth)		FIN-Door (2+77+8 mm)	FIN-Door (2+90+8 mm)	FIN-Door (2+124+8 mm)	FIN-Door (78 mm)
		U_g 1-leaf (W/m ² K), triple glazing R_g standard (dB) / R_g best value (dB) for sound-insulating door leaves		U_g 2-leaf (W/m ² K), triple glazing R_g standard (dB) / R_g best value (dB) for sound-insulating door leaves	
Shape	Flat Planar-Flat Planar				FIN-Door Flat Planar-Flat Planar 78 Aluminium-aluminium 0.90 / 0.96 36(-1;-3) / 42(0;-3)
	Flat Planar-Step Planar				FIN-Door Flat Planar-Step Planar 78 Aluminium-aluminium 0.90 / 0.96 36(-1;-3) / 42(0;-3)
	Step Planar-Flat Planar				FIN-Door Step Planar-Flat Planar 78 Aluminium-aluminium 0.97 / 1.0 36(-2;-4) / 41(-1;-4)
	Step Planar-Step Planar				FIN-Door Step Planar-Step Planar 78 Aluminium-aluminium 0.97 / 1.0 36(-2;-4) / 41(-1;-4)
	Step Planar-Flat Frame				FIN-Door Step Planar-Flat Frame 78 Aluminium-aluminium 1.1 / 1.2 -
	Step Planar-Step Frame				FIN-Door Step Planar-Step Frame 78 Aluminium-aluminium 1.1 / 1.2 -
	Flat Frame-Flat Frame				FIN-Door Flat Frame-Flat Frame 78 Aluminium-aluminium 1.1 / 1.1 -
	Flat Frame-Step Frame				FIN-Door Flat Frame-Step Frame 78 Aluminium-aluminium 1.1 / 1.1 -
	Step Frame-Step Frame	FIN-Door Step Frame-Step Frame 77 Aluminium-aluminium 0.86 / 0.89 -	FIN-Door Step Frame-Step Frame 90 Aluminium-aluminium 0.84 / 0.89 -	FIN-Door Step Frame-Step Frame 124 Aluminium-aluminium 0.84 / 0.89 -	
	Protection	Burglar resistance Standards (for doors taller than 2 m)	Five-point locking with two swing bolts, two roller cams and door latch bolt		
	Colour/Finish	Frame and leaf	10 uPVC colours, 252 aluminium colours, 12 ceramic colours, 7 glass enamel colours, 6 softwood colours, 9 hardwood colours, 5 precious wood colours		

Model details

Page	Model	Shape	Frame material Exterior- Interior	Leaf material Exterior- Interior	Frame colour Exterior- Interior		Infill panel colour Exterior- Interior		Handle Exterior- Interior
52	01	Flat Planar - Step Planar	Aluminium - Aluminium	Aluminium - Wood	LC32 - LC32	Pale Bronze - Pale Bronze	LC32 - 3X02	Pale Bronze - Oak Light Grey	439_LC32 - 577_LC32
	720	Flat Frame - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	893 - 893	Sablé Anthracite Grey - Sablé Anthracite Grey	893 - 893	Sablé Anthracite Grey - Sablé Anthracite Grey	490_43 - 525_43
	F401S	Flat Frame - Step Frame	Aluminium - Aluminium	Glass - Glass	M702 - M702	Olive Grey matt - Olive Grey matt	G03/G07 - G03/G07	Khaki Grey/Silk Grey - Khaki Grey/Silk Grey	70515_M702 - 577_56
54	01(ST04)	Flat Planar - Step Planar	Aluminium - Aluminium	Glass - Glass	M102 - M102	Sand Yellow matt - Sand Yellow matt	ST04 - ST04	Marble White - Marble White	323_M102 - 584_M102
	01(F4XX)	Flat Planar - Step Planar	Aluminium - Aluminium	Glass - Glass	F905 - F905	Jet Black fine texture - Jet Black fine texture	XX/ G01/G02 - F905	Custom print Jet Black/Cream White - Jet Black fine texture	70515_F905 - 577_56
	L11 (F4XX)	Flat Planar - Step Planar	Aluminium - Aluminium	Glass - Glass	F905 - F905	Jet Black fine texture - Jet Black fine texture	XX/4C - G01	Custom print four colours - Jet Black	490_43 - 525_43
56	120	Step Planar - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	F91 - F91	Pebble Grey fine texture - Pebble Grey fine texture	F91 - F91	Pebble Grey fine texture - Pebble Grey fine texture	323_F801 - 536_56
	L11	Step Planar - Step Planar	Aluminium - Aluminium	Glass - Glass	M722 - M722	Umbra Grey matt - Umbra Grey matt	G10 - G10	Umbra Grey glossy Umbra Grey glossy	312_M722 - 535_43
58	49	Step Planar - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	M524 - M524	Pastel Blue matt - Pastel Blue matt	M524 - M524	Pastel Blue matt - Pastel Blue matt	422_43 - 422_43
	115	Flat Planar - Step Planar	Aluminium - Aluminium	Aluminium - Aluminium	F739 - F739	Quartz Grey fine texture - Quartz Grey fine texture	F739 - F739	Quartz Grey fine texture - Quartz Grey fine texture	323_F618 - 577_F618
	F412S	Flat Planar - Step Planar	Aluminium - Aluminium	Glass - Glass	893 - 893	Sablé Anthracite Grey - Sablé Anthracite Grey	G10/G04 - G10/G04	Jet Black/Anthracite Grey - Jet Black/Anthracite Grey	70515_893 - E528_E03
60	46-1	Step Planar - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	M305 - M305	Wine Red matt - Wine Red matt	M305 - M305	Wine Red matt - Wine Red matt	487_43 - 577_M305
	47-2	Step Planar - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	F124 - F124	Ochre Yellow fine texture - Ochre Yellow fine texture	F124 - F124	Ochre Yellow fine texture - Ochre Yellow fine texture	468_56 - 577_F124
	58	Flat Planar - Step Planar	Aluminium - Aluminium	Aluminium - Aluminium	M824 - M824	Beige Brown matt - Beige Brown matt	M824 - M824	Beige Brown matt - Beige Brown matt	490_43 - 525_43
	105	Flat Planar - Step Planar	Aluminium - Aluminium	Aluminium - Aluminium	M512 - M512	Light Blue matt - Light Blue matt	M744 - M744	Silk Grey matt - Silk Grey matt	493_43 - 577_56
61	45	Flat Planar - Step Planar	Aluminium - Aluminium	Aluminium - Aluminium	LC33 - LC33	Mid Bronze - Mid Bronze	LC33 - LC33	Mid Bronze - Mid Bronze	468_56 - 577_56
	48	Flat Planar - Step Planar	Aluminium - Aluminium	Aluminium - Aluminium	F905 - F905	Jet Black fine texture - Jet Black fine texture	F905 - F905	Jet Black fine texture - Jet Black fine texture	438_43 - 577_56
	104	Step Planar - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	M511 - M511	Steel Blue matt - Steel Blue matt	M511 - M511	Steel Blue matt - Steel Blue matt	487_43 - 577_56
	111	Step Planar - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	LX02 - LX02	Cherry Dark coated wood decor - Cherry Dark coated wood decor	LX02 - LX02	Cherry Dark coated wood decor - Cherry Dark coated wood decor	312_43 - 577_56
62	44	Flat Planar - Step Planar	Aluminium - Aluminium	Aluminium - Wood	M602 - F115	Leaf Green matt - Light Ivory fine texture	M602 - F115	Leaf Green matt - Light Ivory fine texture	493_43 - 578_56
	117	Step Planar - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	894 - 894	Sablé Dark Grey - Sablé Dark Grey	894 - 894	Sablé Dark Grey - Sablé Dark Grey	310_43 - 525_43
	21.1	Step Frame - Step Frame	uPVC - uPVC	uPVC - uPVC	L19 - 45	Oak coated wood decor - White satin finish	L19 - 45	Oak coated wood decor - White satin finish	490_43 - 536_M113
	97	Step Frame - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	203 - 203	Classic Classic	203 - 203	Classic - Classic	493_43 - 585_43
63	28.0	Step Frame - Step Frame	Aluminium - Kunststoff	Aluminium - Kunststoff	358 - 19	Gris - Oak wood decor	358 - 19	Gris - Oak wood decor	490_43 - 534_43
	28.0	Step Frame - Step Frame	Aluminium - uPVC	Aluminium - Kunststoff	358 - 55	Gris - Walnut wood decor	358 - 55	Gris - Walnut wood decor	490_43 - 534_43
	93	Flat Frame - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	M603 - M603	Olive Green matt - Olive Green matt	M603 - M603	Olive Green matt - Olive Green matt	312_43 - 578_43

Page	Model	Shape	Frame material Exterior- Interior	Leaf material Exterior- Interior	Frame colour Exterior- Interior		Infill panel colour Exterior- Interior		Handle Exterior- Interior
63	Division pattern 09	Flat Frame - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	893 - 893	Sablé Anthracite Grey - Sablé Anthracite Grey	893 - 893	Sablé Anthracite Grey - Sablé Anthracite Grey	490_43 - 525_43
64	07	Step Planar - Step Planar	Aluminium - Aluminium	Aluminium - Aluminium	F903 - F903	Signal White fine texture - Signal White fine texture	F903 - F903	Signal White fine texture - Signal White fine texture	468_56 - 577_F903
	20	Step Planar - Step Planar	Aluminium - Aluminium	Aluminium - Aluminium	2525 - 2525	Mars - Mars	2525 - 2525	Mars - Mars	406_56 - 575_43
	24	Step Planar - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	691 - 691	Sablé - Sablé	691 - 691	Sablé - Sablé	492_43 - 577_56
66	23	Step Planar - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	F45 - F45	White satin finish fine texture - White satin finish fine texture	F45 - F45	White satin finish fine texture - White satin finish fine texture	323_43 - 577_56
	62	Flat Planar - Step Planar	Aluminium - Aluminium	Aluminium - Aluminium	M508 - M508	Grey Blue matt - Grey Blue matt	M508 - M508	Grey Blue matt - Grey Blue matt	582_43 - 575_M508
	Division pattern 07	Flat Frame - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	893 - 893	Sablé Anthracite Grey - Sablé Anthracite Grey	893 - 893	Sablé Anthracite Grey - Sablé Anthracite Grey	490_43 - 525_43
	F4111	Flat Frame - Step Frame	Aluminium - Aluminium	Glass - Glass	M746 - M746	Telegrey 2 matt - Telegrey 2 matt	G06/G02 - G06/G02	Traffic Grey/Cream White - Traffic Grey/Cream White	70515_M746 - 577_56
67	110	Step Planar - Step Planar	Aluminium - Aluminium	Aluminium - Aluminium	M100 - M100	Green Beige matt - Green Beige matt	M100 - M100	Green Beige matt - Green Beige matt	439_M100 - 535_M100
	113	Flat Planar - Step Planar	Aluminium - Aluminium	Aluminium - Aluminium	M331 - M331	Orient Red matt - Orient Red matt	M331 - M331	Orient Red matt - Orient Red matt	490_43 - 536_M331
	116	Step Planar - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	M603 - M603	Olive Green matt - Olive Green matt	M603 - M603	Olive Green matt - Olive Green matt	506_43 - 536_56
	92	Step Frame - Step Frame	Aluminium - Aluminium	Aluminium - Aluminium	F102 - F102	Sand Yellow fine texture - Sand Yellow fine texture	F102 - F102	Sand Yellow fine texture - Sand Yellow fine texture	438_43 - 585_M102
68	86	Step Frame - Step Frame	uPVC - uPVC	uPVC - uPVC	55 - 55	Walnut wood decor - Walnut wood decor	55 - 55	Walnut wood decor - Walnut wood decor	426_56 - 426_56
	89	Step Frame - Step Frame	uPVC - uPVC	uPVC - uPVC	42 - 42	White embossed - White embossed	42 - 42	White embossed - White embossed	406_56 - 578_56
	91	Step Frame - Step Frame	uPVC - uPVC	uPVC - uPVC	06 - 06	Grey satin finish - Grey satin finish	06 - 06	Grey satin finish - Grey satin finish	489_43 - 584_56
70	118	Flat Planar - Step Planar	Aluminium - Aluminium	Aluminium - Aluminium	203 - 203	Classic - Classic	203 - 203	Classic - Classic	439_203 - 525_43
	119	Step Planar - Step Planar	Aluminium - Aluminium	Aluminium - Aluminium	M800 - M800	Green Brown matt - Green Brown matt	M800 - M800	Green Brown matt - Green Brown matt	404_56 - 577_56
	18.1	Step Frame - Step Frame	Aluminium - uPVC	Aluminium - uPVC	691 - 27	Sablé - Pearl White satin finish	691 - 27	Sablé - Pearl White satin finish	404_56 - 586_M113
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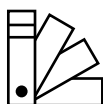
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