

# fascination WINDOWS & FRONT DOORS

**KNEER · SÜD**  
**FENSTER**

Lived Vision







# KNEER-SÜDFENSTER



## THE COMPANY

For over eighty years Kneer-Südfenster has been one of the largest and most renowned manufacturers of windows and front doors in Germany. Our family-owned company still produces windows and doors with the same founding principles for quality and craftsmanship. We produce a full range of wood, wood-aluminum, UPVC, aluminum and UPVC-aluminum windows and front doors.

We orchestrate the production of over 330.000 windows and 7.000 front doors annually. Our clients benefit from our nimble manufacturing process, which allows for custom solutions to meet design specifications.

From master craftsmen to custom wood workers and production line quality assurance engineers, Kneer-Südfenster employs about 700 employees in three state-of-the-art production facilities across Germany. Our products are in homes and businesses worldwide, making us one of the leading manufacturers and innovators of windows and front doors.

Our focus on tradition, quality engineering and energy efficiency coupled with our core values of sustainability and green manufacturing has created a comprehensive range of windows and front doors that bestow luxury and comfort for the discerning customer.

## QUALITY MADE IN GERMANY!



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# TRADITION





LUXURY













# QUALITY





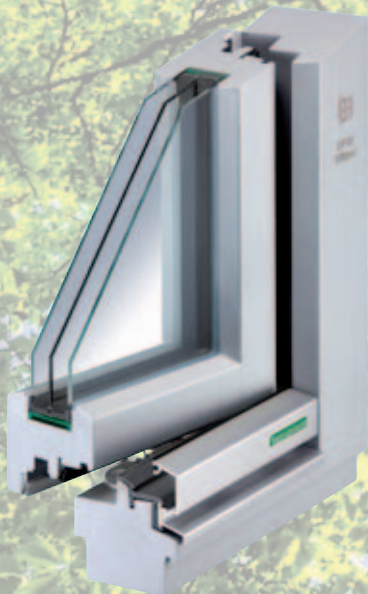
# Wood

## Luxurious and beautiful windows

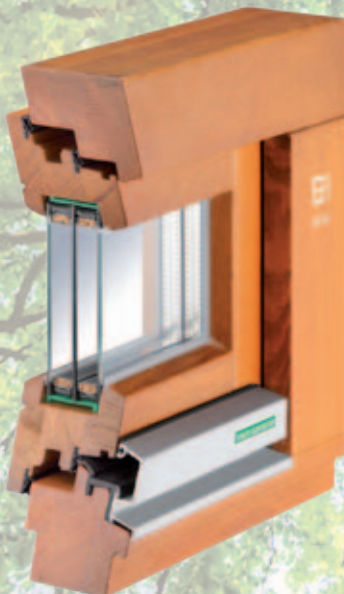
Wood, the organic renewable raw material of our forests, is still regarded as a gift of nature. Even though significant inroads have been made by advanced materials with highly specialized characteristics, the wood window in all its beauty and versatility cannot be rivaled. Wood has been used for thousands of years in construction. Because of its adaptability and strength, wood enables us to bring the beauty of the forest in our dwellings.

## Wood windows for historic buildings Preserving the old with new windows

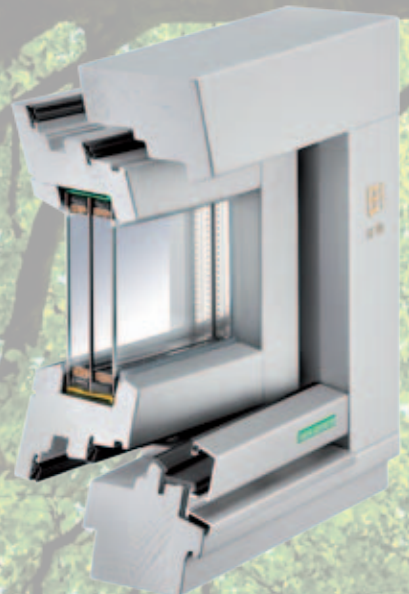
Currently, there is a high demand for windows exclusively for the renovation of historic buildings. Wood windows are predominately sought after for these projects to re-create or update without losing the historic aesthetics and authenticity. Our wood windows give the buildings the look and splendor of many centuries ago merged with the technological advancements of today. With individual, creative solutions, a sense for details and proven performance of modern technology, sophisticated concepts can be realized. Whether your project is a historic library, museum or residence; we have the solution for every architectural challenge.



HF 82 Effizient



HF 82



HF 90



## Wood Characteristics

- ☐ Various wood types to choose from such as pines, spruce, meranti, larch and oak
- ☐ Layer-bonded wood scantlings guarantee maximum strength and torsion freedom
- ☐ Wide variety of warm natural wood color tones and opaque color tones
- ☐ Protective four layer color application for long lasting wood preservation and bi-color options available
- ☐ Design freedom for every style: contemporary, traditional, modern or rustic as well as historic



HF 90 WD

Selection of our program





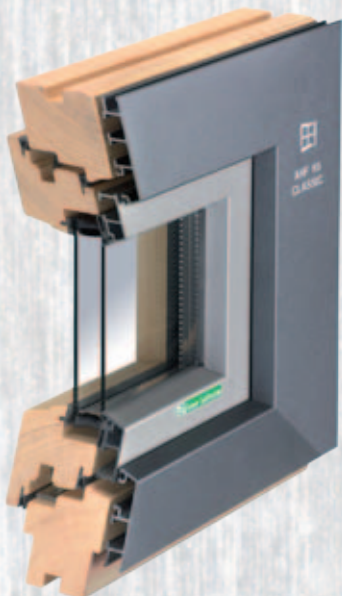
# Wood-Aluminum

## Experience the unique synthesis of nature and technology

Look forward to the perfect window with distinctive design and luxurious interior appearance!

## Possibilities

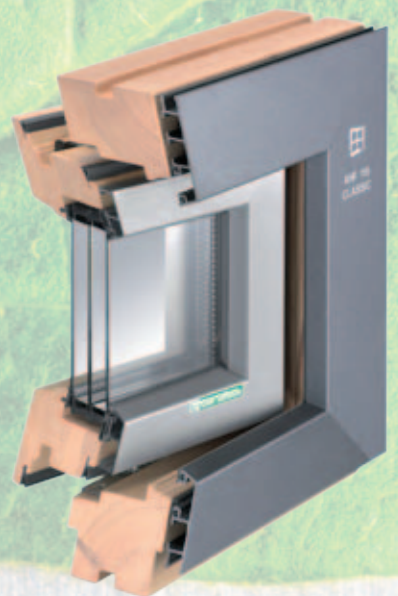
The outer powder-coated aluminum cladding promises to protect your valuable windows against environmental elements like wind and rain. Our windows are built to withstand all kinds of weather conditions. Inside you will enjoy the wonderful silk-matte finish that feels delicate and polished to the touch.



AHF 95 Classic



AHF 105 S Modern



AHF 115 Classic





### Wood-Aluminum Characteristics

- ☐ 12 wood types available for your design specifications
- ☐ Warm, semi-matte satin finish natural wood tones and opaque color tone interior
- ☐ Protective four-layer color application for long lasting wood preservation
- ☐ Maintenance-free, powder coated aluminum cladding protects the window from all weather effects
- ☐ Excellent durability and strength
- ☐ Proven performance for air infiltration, water penetration and structural wind load
- ☐ Fixed glazing with concealed innovative fastening technology of the decorative bead groove and very narrow visual widths for a flushed appearance



AHF 115 P Classic

Selection of our program







DESIGN



DESIGN









# INNOVATION









# UPVC

**Perfect for everyday use**  
**Easy upkeep and maintenance**

Design flexibility, quality and a timeless look – these make up what architects and building contractors require from a window. Kneer-Südfenster UPVC windows meet these criteria while delivering a proven performance product.

From design to function and durability, our extensive range meets the requirements of renovation and new construction applications in commercial and residential buildings.



KF 404 S



KF 614



KF 704 S





### UPVC Characteristics

- ❑ Excellent thermal insulation characteristics achieved with thick-walled multi-chamber profile geometry
- ❑ Practically scuff-proof and easy to maintain
- ❑ Outstanding structural and physical characteristics
- ❑ Window design combined with state-of-the-art fitting technology
- ❑ Adaptable to any design style such as contemporary, traditional, modern or rustic
- ❑ Lift and slide doors, parallel tilt and sliding doors, parallel sliding doors, folding sliding doors, pivot windows, arched and segmental arch windows are available and can be customized to fit your project requirements
- ❑ Ideal price performance ratio



KF 714 S-WD P

Selection of our program





# Aluminum

## The timeless and classical window

Windows made from aluminum offer maximum quality, as well as safety and security. Their classical lines serve the contemporary building style perfectly. High usability even under extreme demand and a trouble-free functionality are guaranteed.

You will be spoilt for choice when it comes to design and color scheme.



AF 85



AF 85 WD





### Aluminum Characteristics

- Two different systems
- Wide variety of color tones available
- Modern designed to perfection
- Easy to maintain and indestructible
- The narrow visual widths make aluminum windows very versatile in their deployment





# UPVC-Aluminum

## The window with two facets

There are windows that show great promise in every aspect: their look, the material they are manufactured from and the multitude of optional extras they can come with. Let the "two facets of a window" impress and inspire you:

UPVC on the inside and aluminum on the outside.

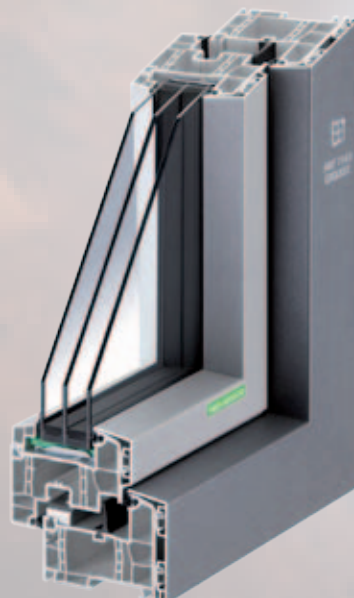
UPVC-Aluminum windows combine the benefits of two different top-quality materials in a single window. The aluminum facing guarantees durability and endless range of colors and finishes.



AKF 514



AKF 614



AKF 714 S





### UPVC-Aluminum Characteristics

- ☒ Easy to maintain, service-friendly and refreshingly brightly colored
- ☒ Great thermal insulation thanks to the UPVC multi-chamber profile
- ☒ High-quality, easy to clean aluminum cladding
- ☒ Window systems combine the advantage of two different high-quality materials in one window
- ☒ The excellence of the aluminum powder coating guarantees durability and colorfastness
- ☒ Special designs like parallel tilt and slide doors and lift-slide doors are available



AKF 714 S-WD P

Selection of our program





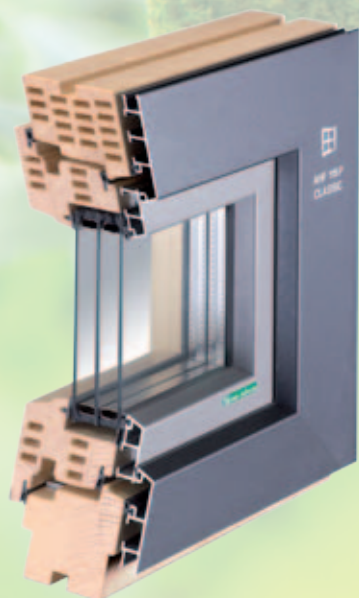
# Passive House Windows

The strongest systems – New benchmarks when it comes to energy saving

## Strong windows for maximum demands

New dimensions in comfortable green living. Our Passive House Windows are built with outstanding insulation values, maximizing their energy savings capability.

The wood-aluminum and wood systems are equipped with innovative engineered and ecologically friendly solid wood scantlings, with grooved air chambers that do not use insulation foam.



AHF 115 P Classic



HF 90 WD



KF 714 S-WD P





All four systems meet Passive House requirements

#### Passive House Windows Characteristics

- ☒ Four types available
- ☒ Wide variety of natural and opaque color tones
- ☒ Proven performance for air infiltration, water penetration and structural wind load
- ☒ Outstanding structural and physical characteristics



AKF 714 S-WD P

#### Overall U value window ( $U_w$ )

##### $U_w$ value

glazing	Ug	0,5	0,5	0,5	0,6	0,6	0,6
spacer		***	**	*	***	**	*
AHF 115 P	spruce	0,74	0,77	0,88	0,81	0,84	0,95
	pine	0,79	0,82	0,93	0,86	0,89	1,00
HF 90 WD	spruce	0,71	0,75	0,76	0,78	0,82	0,83
	pine	0,78	0,82	0,84	0,85	0,89	0,91
KF 714 S-WD P		0,70	0,71	0,75	0,77	0,78	0,82
AKF 714 S-WD P		0,70	0,71	0,75	0,77	0,78	0,80

spacer \*\*\*  
 spacer \*\*  
 spacer \*

warm edge (black, UPVC)  
 stainless steel  
 aluminum



# Front Doors

## The jewel of your house!

Whether you are seeking a classic, modern or rustic look, the entrance door of a house should reflect the lifestyle and personality of its occupants.

An expertly designed front door says as much about you as it does about your house. Kneer-Südfenster will work diligently to customize your door according to your design specifications allowing you complete flexibility on dimensions and colors – after all, the front door is an expression of personal style.

## "KEILFALZ" SAFETY MECHANISM

The patented "Keilfalz" – an exclusive Kneer-Südfenster safety mechanism. The "Keilfalz" safety mechanism works on the principle of an interlocking groove on the hinge side of the door leaf and a matching groove along the adjoining frame. The grooves interlock on shutting, make the door leverage-proof – (WK2 criteria) are fulfilled.

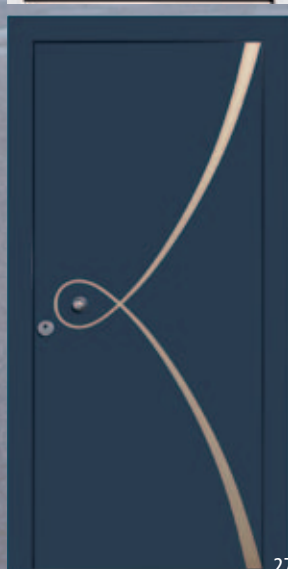


## SAFETY CATCH

It does not compromise the appearance of your front door, but offers additional safety and security. Your front door can only be opened to a small gap, facilitating "secure" contact with the visitor. It is impossible for the door to be pushed open from outside.







## FINGER SCAN

Finger scan – easy and secure access

At Kneer-Südfenster we combine advanced finger scanning technology with your front door elegantly and designed to perfection. The integrated finger scanner facilitates easy access without keys, codes or cards.

**Your finger is the key!**

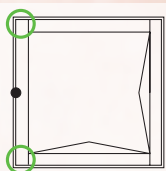




# Technical Solutions

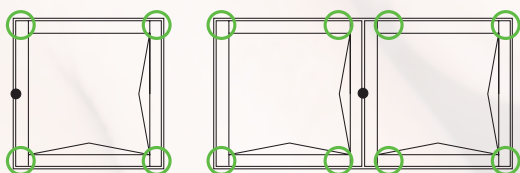
## Safety - Windows with basic safety and security features as standard

Almost every two minutes a burglary takes place. Windows and French doors are the preferred access route into the house or apartment. For this reason Kneer-Südfenster has already attached special importance to high safety and security fittings in the standard version.



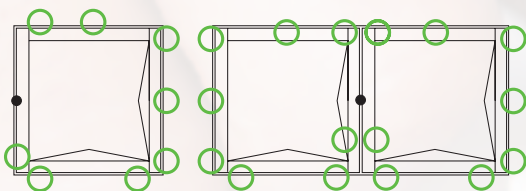
### Basic safety and security – comes standard with Kneer-Südfenster (excluding special designs)

A multi point-locking fitting with two security-specific frame strikers and two casement mushroom bolt locks.



### Safety and security Level D (excluding special designs)

A fitting with a drill protection mechanism and four mushroom bolt locks. In the case of the version based on tested WK1 elements (DIN V ENV 1627 - 1630) a laminated glass plate and lockable window handle are necessary.



### Safety and security Level E (excluding special designs)

A fitting with a drill protection mechanism and all-round locking system according to specification. In the case of the version based on tested WK2 elements (DIN V ENV 1627 - 1630) an impact resistant glazing on the outside, a secured glass connection (e.g. screw-fastened glass strips) and a lockable safety window handle are necessary.

All safety levels of the windows can also be supplied with alarm glass as well as closure and opening monitoring.

## Diversity in design

Kneer-Südfenster offers a large diversity of design options for your windows – focusing on individual custom solutions and special shapes.





### Glass - For a light, pleasant living atmosphere

Our modern insulating glass selection fulfills the most diverse demands. The main function of insulation glass is excellent heat insulation. This can be combined with the characteristics of our speciality glass selection.

Kneer-Südfenster products are equipped as standard with a high-quality heat insulating double glass with low-E

coating and gas filling. Triple glazing with lowest thermal transmittance, is used for maximum energy saving requirements.

Furthermore we have a wide variety of glazing options like noise protection glass, safety glass, sun protection and design glass.

### Barrier-free access

To fulfill the demands and needs of our customers Kneer-Südfenster is able to make your home easy to access. Flat thresholds reduce tripping hazards in your house and provide a safety atmosphere for your whole family. Barrier-free access is not only an expression of modern elegance

but also a plus in terms of living quality - certainly your whole life long. Kneer-Südfenster will find solutions for your house, according to your individual requirements.

### Lift and slide

Lift and slide doors open up a whole new perspective for your living space. With these innovative doors you have the possibility of opening up your living space extensively to the outside, almost silently and very easy to handle. The flat ground sill facilitates a barrier-free transition between inside and outside.

As an alternative to lift and slide doors we also offer:

- parallel tilt and slide doors
- parallel sliding doors
- folding sliding doors





# Folding, sliding & roller shutters

## Folding, sliding and roller shutters

Folding, sliding and sliding bi-fold shutters made of aluminum or wood are conducive to being harmoniously integrated into the window in any building situation. In the process, it does not matter whether it is a building style that is characteristic of the country, heritage-listed building regulations must be taken into account or a new building is being planned.

## Roller shutters

### Light, shade, protection, safety and security

Aside from the window itself, the roller shutter casing is often one of the main causes of heat loss in the building shell. Kneer-Südfenster roller shutters are installed simultaneously with the new window and consequently form an energy saving unit. For greater living comfort, to save energy and to mitigate the environmental burden.

The roller shutter product range from Kneer-Südfenster

meets the needs of our time. Modern roller shutters can be integrated with the window as a design element in any façade in line with the customer's wishes or virtually out of sight. With different profiles and a large selection of colors, customers are spoiled for choice with almost no limits.

## External Venetian blinds

### Light and sight concepts

The external Venetian blind is the architectural alternative to roller shutters for modern houses with plenty of glass. The sun shield mounted on the outside prevents the excessive heating up of the rooms. It reflects the sunrays and

by turning the blades, as much light as you wish enters your rooms. This contributes towards a pleasant lighting scenario and keeps the heat outside.





### **Insect protection** **Rid your home of mosquitoes and flies**

#### **Insect-protection roller screen:**

The roller screen is integrated in the roller shutter casing and only makes its appearance if you want it to. It simply disappears in the roller shutter casing and in this way it is protected from inadvertent mechanical strain.

#### **Insect-protection hinged frame:**

The rotating frame is mounted on the outside of the window

frame and can be deployed flexibly, however it is most suitable for balcony and patio doors.

#### **Insect-protection tenter frame:**

The tenter frame is mounted without drilling and its deployment can be customised through diverse variation options. It can be hooked in and unhinged effortlessly from the interior.



# Perfection

## We are proud of...

### Windows in sync with nature

- ☒ The exceptionally long durability of our windows is the biggest contribution we are making to the conservation of our resources
- ☒ A large proportion of the wood we are using has its origins in sustainably cultivated forests
- ☒ Wood profiles are coated exclusively with environmentally-friendly color systems
- ☒ Our windows made from vinyl are stabilised using calcium-zinc formulation and display the "Green Line" trademark, which means, they are environmentally compliant quality seal windows
- ☒ Vinyl windows are anti-bacterial, hygienic, antiseptic and particularly suited to people suffering from allergies or asthma
- ☒ The high level of heat insulation of our windows reduces energy consumption
- ☒ Kneer-Südfenster products are service-friendly, easy to maintain and colorfast

### Innovation strength

Thanks to continuous investments Kneer-Südfenster always uses the most modern techniques and is characterised by a high degree of flexibility. Kneer-Südfenster demonstrates innovation strength with energy efficient construction elements, which achieve top insulation values, e.g. with

windows and front doors for passive houses. In addition to technically perfect products, Kneer-Südfenster also places great value on attractive design, e.g. hidden fittings, decorative bead groove and very narrow visual widths.





## Tested windows – Build for healthy living

The most important subsistence for the human being is the air we breathe. Particularly in the most important place on earth, our home, the air should be free from pollutants.

Since we spend 90 % of the day in closed spaces, discharges from building materials and furnishings can endanger our health. Today the strain on indoor air is ten times higher than that of outdoor air. Kneer-Südfenster is the only manufacturer of windows and front doors that fulfills the strict requirements of the "Sentinel Haus Institut" (SHI, Germany's Sentinel House Institute

helps to protect buildings from unwanted contaminants). Kneer-Südfenster has had itself tested and meets the high requirements of SHI without limitations. Due to that Kneer-Südfenster is the official product partner of the SHI network. SHI offers architects, building contractors and home owners a contractual indoor air quality guarantee. The Sentinel Haus Institut guarantee makes exceptionally high demands on building materials used, making it unique in Europe when it comes to the health of building inhabitants.

## Advantages tested windows

Healthy living windows by Kneer-Südfenster:

- Demonstrably harmless to health
- Without volatile organic compounds or VOCs

Optimal indoor climate:

- Pollution-free indoor climate
- Allergy-friendly

Durability:

- Innovative surface appearance
- Minimum need for maintenance

Sustainability:

- Renewable raw materials
- Secured recycling cycles for materials

Meet indoor hygiene requirements in line with:

- ECO Institute
- Germany's Sentinel House Institute



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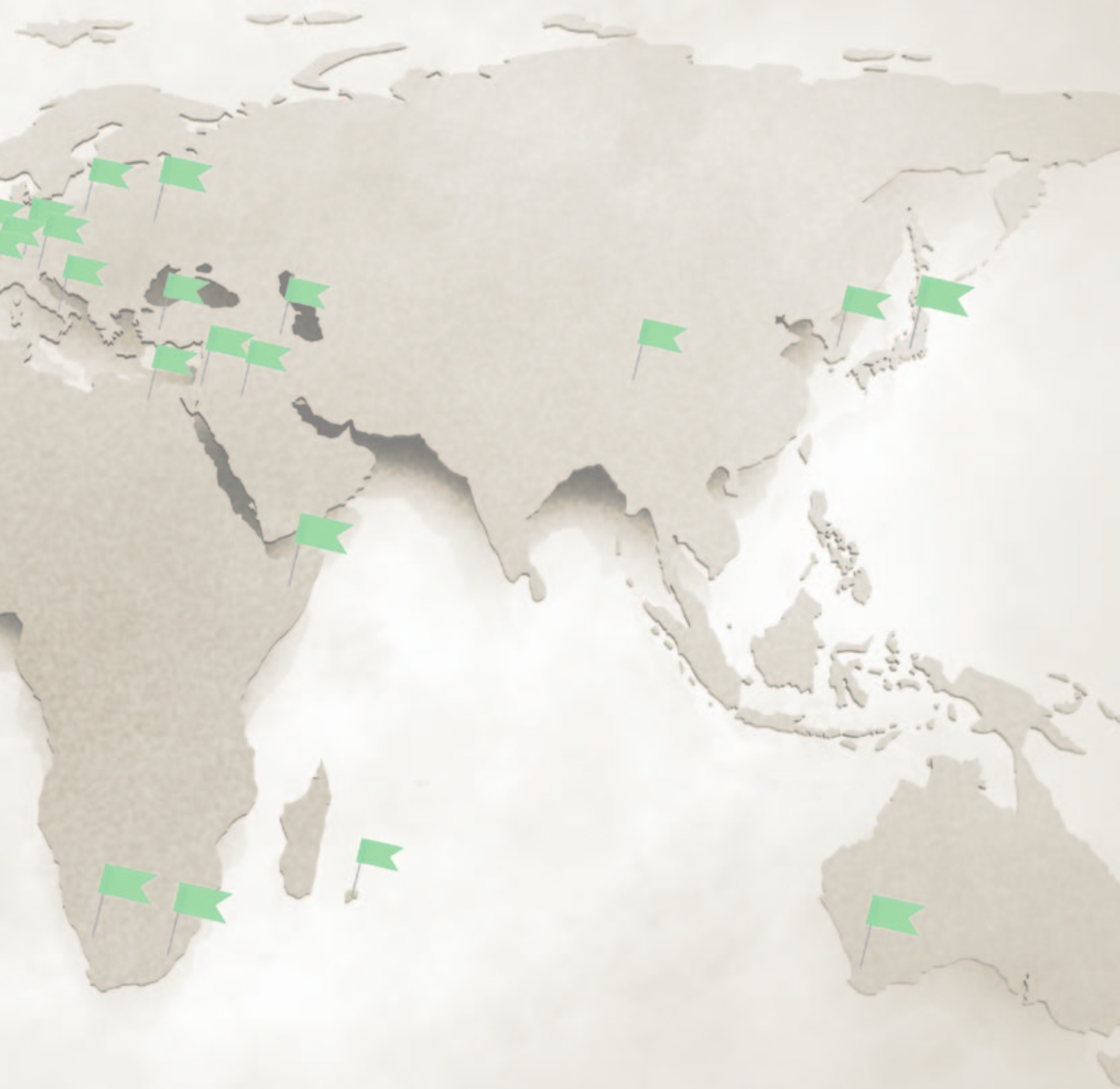
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