



- *quality pays off*

Let the light in



NORDIC PINE TIMBER
SAPINO

TIMBER + ALUMINIUM
TINIUM

MAHOAGANY/OAK
MOGANO

NEW BUILD RENOVATION INSPIRATION SAFETY QUALITY ENVIRONMENT LIGHT AESTHETICS

QUALITY OF LIFE • SAFETY IN YOUR HOME



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At STM Vinduer A/S, we constantly focus on investing in our production equipment so that we can produce units efficiently, uniformly and of a premium quality - Quality pays off!



Welcome to STM Windows

The eyes of the building

The composition of the various window and door types is very important for the experience of the building's overall expression and architecture. Therefore, when new windows and doors are selected, it is a major decision. It requires a lot of consideration, and there are many factors to take into account.

Quality pays off

STM is a leading Danish manufacturer of windows and doors in Nordic pine heartwood, mahogany and wood-alu composite.

With over 40 years of experience behind us, we position ourselves as a manufacturer of quality products with a high degree of production flexibility. We produce windows and doors according to your exact requirements - no task is too big or too small.

Energy Efficiency

Our product development focuses on obtaining energy-efficient solutions and complies with energy requirements in BR15 as a minimum.

Security

When you choose windows and doors from STM, there is always a great focus on your safety, so you can feel safe in your own home.

Get inspired

I hope you will find plenty of ideas and inspiration for your new doors and windows on the pages that follow.

For more information, check out our website at **STMwindows.com**.

Enjoy!

Finn Methmann
Director



Quality pays off

An investment in windows and doors requires thorough consideration. We're talking about your home and your everyday life - about values that must be able to last for a lifetime.





All elements are produced using modern production methods and high-tech machinery.

Whether it's classic pine, mahogany or wood-alu windows, STM always manufactures in first-class quality - and it pays off!

The main investment of the house?

With our roots going back more than 40 years, STM has accumulated a great deal of market knowledge and experience. On your behalf we are demanding timber quality, material control and streamlined processes, maintaining craft traditions and individual designs, optimum surface feel and finish, as well as careful quality control and packaging. As a customer, you can feel secure building your new home or renovating with windows and doors from STM.

STM itself is part of the entire value chain from development to delivery of the finished-quality products to the customer. Collaboration with carpenters and craftsmen builds on mutual respect and high aspirations for customer satisfaction. You can be assured of top-quality products at the right time, as well as fast service and repair if you are not 100 percent satisfied with your products from STM.

Good quality pays off in the long run.

Helping you choose the best window solution!

Try the '*window designer*' at www.stmwindows.com

- ✓ *Windows and doors from STM are supplied in pine, pine+aluminium, mahogany or oak.*
- ✓ *In our production, we apply raw materials from FSC & PEFC certified forests.*
- ✓ *Pine trees in our production have a core timber heartwood content at a minimum of 90% and humidity at a maximum of 15%.*
- ✓ *We only use knot-free timber, which is why, with windows from STM, you will never experience knot-bleed in the paint surface.*
- ✓ *All of our products are supplied with our security package 1 as standard.*



Light and aesthetics



The windows in your home form the framework of a unique space. The right choice of windows is essential for creating the optimal atmosphere and comfort in individual rooms.

Viewed from the outside, windows and doors give a building its own style. They can create harmony, balance or a dynamic atmosphere and can also change the entire style of a home. It is important here to understand the overall aesthetic when discovering the nature of the building.



The size, number and location of the windows in a room are crucial for the experience of your home.



Windows and doors are an essential part of your home's identity

Natural light plays a large part in our mood and activity level. This is scientifically proven. Skylights, glazed doors, small windows, large glass facades. Each catches and spreads light differently.

The size, number and location of the windows in a room is crucial to your experience of your home. The light and the view help give us experiences of joy, coziness and well-being.

From the outside, windows and doors help to define the style of a building. They can create harmony and balance or dynamics and surprises as intended.

The openings in the building are like the breaks in a beautiful speech, or even a life-giving breath.

They are the contact between the house and the outside world. Intended for vision and insight and framed by sturdy and beautiful materials.

Your windows and doors are part of the soul of the house, and it is important for the atmosphere - both inside and outside - that the house has the right expression. It also increases the value of your property significantly, as aesthetics and design help you reach into a higher bracket.

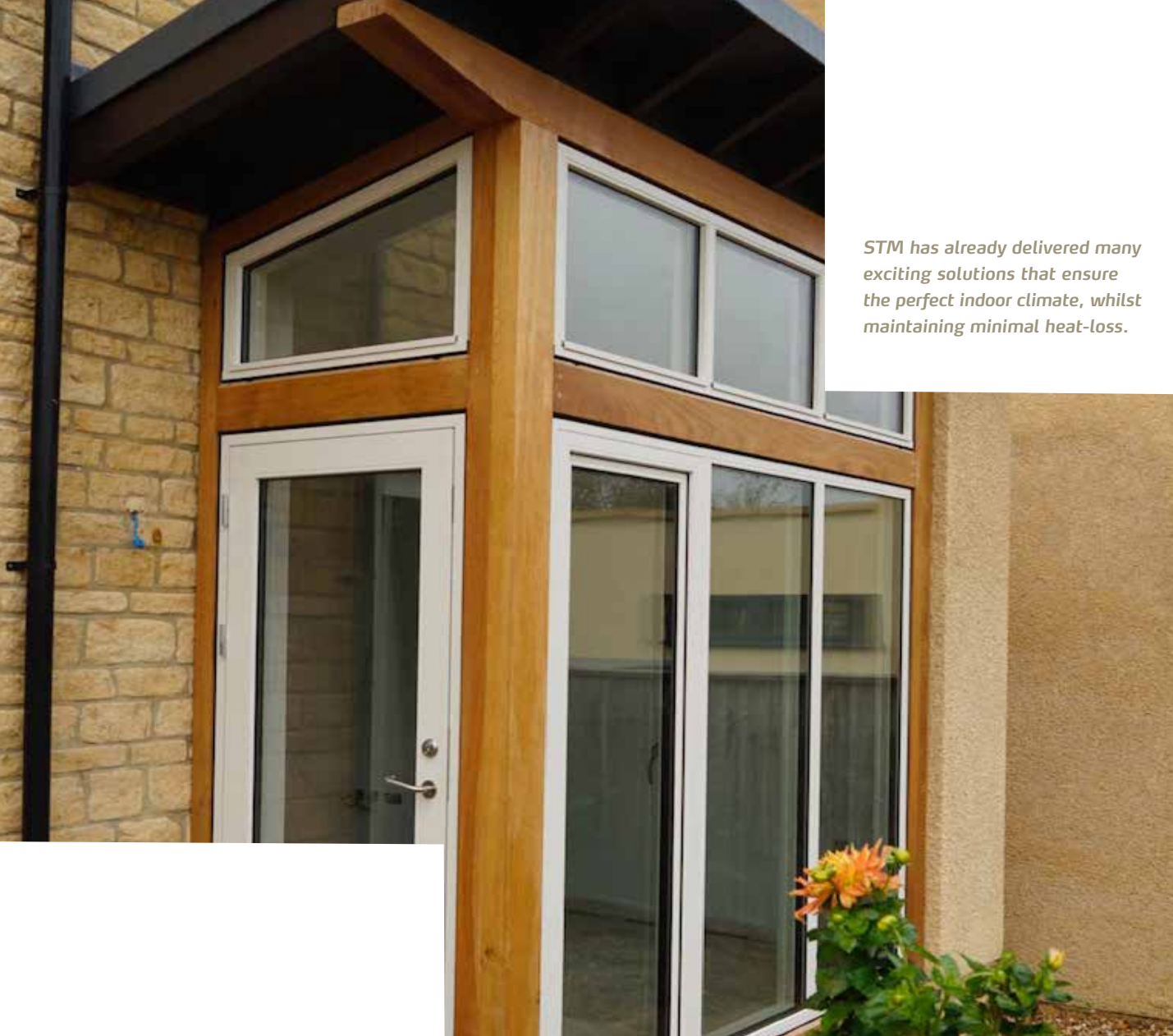
Details and finishes



STM only uses heartwood from slow growing pine, which has a high content of oils and resins.



- ✓ *Knot-free heartwood is your guarantee: STM products promise long life and a finish without brown rings from knots.*
- ✓ *Wood processing takes place on our fully automatic machinery, supervised by well-trained machine carpenters who are 'best in their class'.*
- ✓ *Windows Industry prescribes 80 microns of paint. STM applies between 20-30% more, which is why our customers enjoy windows with a smooth surface and high abrasion resistance.*
- ✓ *Warm edge spacer available in light gray or black.*
- ✓ *Thresholds in Jatoba, mahogany and oak, and stainless steel hinges are available.*
- ✓ *Patio door with a handle both inside and out with double cylinder can be specified.*
- ✓ *SAPINO elements can be supplied with white or grey silicone sealant instead of black glass tape.*



STM has already delivered many exciting solutions that ensure the perfect indoor climate, whilst maintaining minimal heat-loss.

Energy and comfort

in all of the rooms of your home

Modern windows and doors from STM are naturally well-insulating, so your investment pays itself back on the heating bill. Not only do your personal finances benefit, but the global climate benefits too. 7% of Danish energy consumption seeps out through leaky and poorly insulated windows. This corresponds to double the total energy production from the country's wind turbines. A-rated windows are one part of the solution.

The comfort of an energy-efficient window can be felt. No more flickering lights and hairs standing up on the back of your neck. No cold breezes into the room, and no dew or condensation gathering

on the panes which is the result of poor indoor climate. Instead, you get windows and doors that require minimal or even no maintenance. With the utmost ease, you can open up and ventilate the house, or close it off and keep the storm out when required.

Thanks to extra sound reduction, noise from traffic and people walking by in the neighbourhood are muted, letting you enjoy chatting to your loved ones in peace. With our high-quality windows and doors, you can take pleasure in a comfortable indoor climate where temperature and humidity exist in healthy balance.



***Creating the perfect indoor climate:
a top priority for STM***

Our quality windows and doors enable you to enjoy a comfortable indoor climate where temperature and humidity exist in an ideal balance.

STM can help you make the right choices from the start - and, trust us, it pays off in the long run.



Energy classes for product systems

A building's heat loss takes place through the external envelope. The envelope consists of the exterior walls and windows. Here, a window has greater heat loss than an outer wall. But, unlike the outer wall, the window can add energy to the home

in the form of daylight and heat from the sun. The Danish Energy Agency and the Window Industry use their own energy labeling scheme for windows. STM Windows have been shown to be energy-efficient through this country-wide scheme.

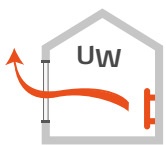
U-value: The heat loss at windows and doors is calculated as the U-value and is the expression of energy passing through 1m^2 of one building part per second at a temperature difference of 1 degree between the outside and inside. It is measured in $\text{W}/\text{m}^2\text{K}$. The U-value can be up to $6.0\text{ W}/\text{m}^2\text{K}$, which is very high compared to an insulated building part. The best windows with 3-layer energy glass have a low energy loss of less than $1\text{ W}/\text{m}^2\text{K}$.

G-value: The G-value is an expression of free heat. It displays the amount of the solar energy that hits the pane exterior, passes through the pane and into the room. The G value is a number between 0 and 1, and the higher the g-value, the more free heat enters the room.

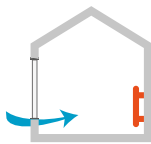
Eref: The energy supplement is calculated based on the U and G values. If the value is negative, it is referring to a net heat loss. If it is positive, the building receives a net heat supplement. Placing windows correctly according to the position of the sun means that more energy can be supplied throughout the year than is lost.

Windows are one of the building materials which have historically been one of the most impactful sources of heat loss for buildings.

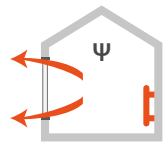
Therefore, it is important to choose the right energy class for your home.



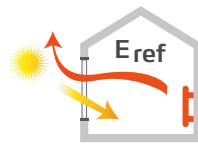
Uw
Window heat loss



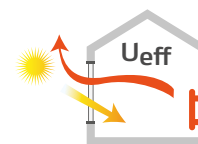
Thermal bridging
around the window



Heat loss
through seals



Eref
Energy balance expressed
in an easy-to-read scale



Energy Balance
Cold bridge around the
window in terms of heat loss

*STM produces windows that comply with the strictest legislation.
Discover more about glass types on page 40*



Replace your old windows

and save on energy bills

By choosing windows carefully, a great deal of energy can be saved on a daily basis.

Low-E glass, warm edge spacers and many other factors in a well-designed window all contribute to reducing your heating bills.



Sustainable production

We all have a responsibility for the planet's resources, and you as a consumer can live up to that by requesting windows and doors from sustainable forests. You can check the product by finding FSC or PEFC brands. At STM Windows, we only use this kind of timber. With us, sustainability also goes a long way into our production, where we emphasize a good working environment and production methods that minimize the risk of injury to employees and unnecessary wear and tear of equipment. Our labeling of doors and windows also serves the best possible transparency, so you know exactly what you're getting.

Energy-efficient windows

All STM windows and doors come with 2 or 3-layer low-energy glazing with warm edge as standard.

The slim profiles ensure great light and therefore contribute to extra heating allowance for the home.

STM offers energy saving and environmentally friendly solutions in pine, wood+alu composite and oak and mahogany.

STM Windows uses green power from Langeland's Electricity supply.



Security creates safety

The prerequisite for a happy life is that you feel comfortable, secure and out of danger - whether you are in an apartment, detached housing, institution or business, security is a human right.

Windows and patio doors can often be a thief's preferred entrance as they can potentially be broken into without hassle and in peace and quiet. If you are in the process of changing the windows and doors of your home, it is wise to take a closer look at how you can best protect yourself from uninvited guests.

Safety is standard from STM - allowing you and your family to sleep safely at night.

All windows come with hardened security bolts, adjustable burglar-proof safety catches and security mastic applied as standard.

All doors come with fall, a latch and two security bolts so that they are secured at three points against a break in.

Beyond that, you can also choose reinforcement of the materials and additional mechanical or electronic security devices.



Whether at work or in the family home, it is worth making sure you are secure.

When choosing windows and doors from STM, there is a great focus on your safety so you can feel safe in your own home.

Check out our high-security locking system on page 44.

SAFETY CATCH POINTS

Adjustable with inclined screws for increased security against burglary.

ESPAGNOLETTE

2 - 3 closures which provide heightened security against burglary.

FULLY GLUED GLAZING UNIT

Ensures that the pane cannot be removed if glass mouldings are removed

HARDENED STEEL BOLTS

Resistant against cutting tools.

SECURITY RECEIVERS

Ensures that frame cannot be removed if the hinges are cut off.

GRIP BARRIER ON WINDOW

Grip works both as child and burglary protection.

LOCKABLE WINDOW HANDLE

Works both as child and burglary protection.

INSIDE CYLINDER ON TERRACE

Extra security in the home extends to the patio door when it locks with cylinder from the inside.

GRIP BARRIER ON TERRACE DOOR

Works both as child and burglary protection.

ADDITIONAL CYLINDER ON DOOR

Double key-lock system on front door.

INSIDE CYLINDER ON FRONT DOOR

Extra security in the home when the door locks with cylinder from the inside.

LAMINATED GLASS

Protection against personal injury and burglary as the pane cannot shatter.

STANDARD FOR ALL STM PRODUCT TYPES

EXTRA OPTIONS AS A SUPPLEMENT



Nordic Pine Timber (SAPINO) - *the classic choice*

Windows and doors in pine core wood

In our production, we use heartwood from pine forests, where trees grow slowly and thereby form a solid and hard core that is very stable and moisture resistant. We only use pine with a heartwood composition of at least 90%. The heartwood naturally has a high content of oils and resins that extends the life of the product.

Coniferous pine is therefore a great material for the production of windows and exterior doors. That is our goal: our windows and doors should fit every building and environment. Therefore, it is also important for us to know if you have special requirements when designing your windows and doors. We might have some options to make your dream home closer to reality than you think.





In our production, we use exclusively high quality pine, with one requirement being that it must be knot-free. This avoids brown rings from the knots that will penetrate the paint over time.



At STM, you can get manufactured items that accommodate any individual's wants and needs. We have a complete window and door program manufactured using modern production methods and high-tech woodworking machinery. This allows us to create windows adapted to all angles and even the most unique buildings.

Wood is a natural product and can, like all other materials, be degraded by wind and weather as well as the sun's UV rays. That is why using the correct surface treatment process is extremely important.

All STM pine elements are surface treated with '2ØKO', which is environmentally friendly, and together with STM's solid frame construction, gives the product a long life.



PRODUCT DATA: SAPINO

Wood	Knot-free timber heartwood
Surface treatment	Standard colours exterior and interior
Security package	Security package 1.
Glazing beads	Timber - at the top and sides Alu-bottom glazing beads, Powder coated
Double glazing	2 layers of low-energy panes with warm edge
Frame	52 x 90 mm (For an additional charge) 52 x 115 mm 52 x 144 mm (For an additional charge)
Window bars	24 mm (energy window bars) 42 mm for an additional charge 64 mm for an additional charge

Technical data:	SAPINO
U-value: (Uw)	+1,33
G-value: (Gw)	+0,54



PRODUCT DATA: SAPINO A

Wood	Knot-free timber heartwood
Surface treatment	Standard colours exterior and interior
Security package	Security package 1.
Glazing beads	Alu-glazing beads, Powder coated
Double glazing	3 layers of low-energy panes with warm edge
Frame	52 x 90 mm (For an additional charge) 52 x 115 mm 52 x 144mm (For an additional charge)
Window bars	24 mm (energy window bars) 42 mm for an additional charge 64 mm for an additional charge Exterior energy window bars are delivered in alu

Technical data:	SAPINO A
U-value (Uw)	+0,95
G-value (Gw)	+0,45



FACTS

ABOUT NORDIC PINE TIMBER

We use only high-quality pine with a high proportion of heartwood - resulting in a maximum of 20% moisture. The decay process first starts at 30% moisture, so pine heartwood is extremely suitable for the production of windows and exterior doors.

Surface Finish:

Pine timber elements are supplied exclusively in knot-free finger-jointed heartwood, which is very strong and resistant. The pine is treated with the "2ØKO" system, then multiple layers of water-based electrostatic paints. STM applies 20-30% more paint than Window Industry's requirements.

2 ØKO requirements:

Exterior of the whole element consists of 100% heartwood.

Colours:

Our items come in 17 standard colours, but if you do not find the colour you want among these, you can choose from many custom colours for a small price uplift.







Aluminium Clad/ Timber Composite *- the sensible choice*

WOOD/ALU - TINIUM



STM's TINIUM 2020 series removes the limits of your dreams, allowing you to express your creativity

No exterior maintenance

STM TINIUM is a wooden window inside with a highly effective insulant in the form of a composite material between the wood and the aluminium exterior climate shield. This construction ensures that the traditional expression of the window is preserved.

The elements are externally covered with a maintenance-free climate shield in powder coated aluminum and require no maintenance other than an ordinary wash a few times a year.





Extended warranty on wood+alu
STM provides a 10 year warranty
on our wood+alu products



Denmark's best window system - quality, durability and no maintenance



The **TINIUM** series is made up of a timber core that provides the traditional interior style and a composite material, which forms the joint in the frame and thereby ensures that the window has good insulation values. It is also a moisture-repellent material when the window is installed in exposed locations.

Exterior finish: Our aluminum profiles go through a 9-step treatment, and only the best polyester powders are given our approval for use.

The built-in drainage channels in the composite material ensure that rainwater runs out and does not come into contact with the timber frame section.

FACTS

ABOUT WOOD+ALUMINIUM COMPOSITE

Heartwood is also provided within our composite product and, combining this with the outside of the window being clad with powder-coated aluminum, this makes the product very suitable for windows and doors in the harsh Danish climate. The combination of wood and aluminum is used primarily in construction where minimal external maintenance is required and, at the same time, where an aesthetic interior surface is an important factor.

Surface Finish:

- The pine is surface treated with the "2ØKO" method. Then the wood is sanded and treated with water-based electrostatic paints.
- Our aluminum profiles undergo a 9-step chromatisation process, followed by a sealing lacquer in accordance with DIN50.939.
- The surface treatment of mahogany is carried out as standard as a 2-step treatment in the form of a pigment and clear oil treatment.

Colours:

The items come in many standard colours (special colours offered for a surcharge). And it's possible, within the standard colour range, to order a different colour on the exterior aluminium to the interior wood for the same price.



The combination of wood and aluminum is used primarily in construction, where one wishes to preserve the expression of a natural pine window, but where there also a desire for minimal exterior maintenance.





For more warranty information see details at www.STMwindows.com

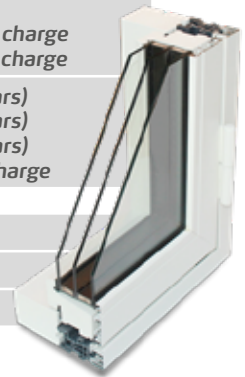


WOOD/ALU - TINIUM

PRODUCT DATA: TINIUM 2020 and 2020+

Design	<i>Interior: knot-free timber heartwood Profile: highly insulating and maintenance-free composite structure. Exterior: Aluminium profiles</i>
Surface treatment	Standard colours exterior & interior
Security package	STM security package 1.
Double glazing 2020	3 layers of low-energy panes with warm edge
Double glazing 2020+	3 layers of low-energy panes with warm edge
Joint type	Straight joints in composite materials
Frame	46 x 127 46 x 156 for an additional charge 46 x 178 for an additional charge
Window bars	24 mm (energy window bars) 42 mm (energy window bars) 64 mm (energy window bars) 64 mm for an additional charge

Technical data:	TINIUM 2020 / 2020+	
U-value (Uw)	+ 0,80	+ 0,82
G-value (Gw)	+ 0,40	+ 0,46



PRODUCT DATA: TINIUM 2+

Design	<i>Interior: knot-free timber heartwood Profile: highly insulating and maintenance-free composite structure. Exterior: Aluminium profiles</i>
Surface treatment	Standard colours exterior & interior
Security package	STM security package 1.
Double glazing	2 layers of low-energy panes with warm edge
Joint type	Inclined joints in composite materials
Frame	52 x 115 52 x 144 for an additional charge
Window bars	24 mm (energy window bars) 42 mm for an additional charge 64 mm for an additional charge

Technical data:	TINIUM 2+	
U-value (Uw)	+ 1,34	
G-value (Gw)	+ 0,54	



Mahogany and Oak

(MOGANO)

The exclusive, distinctive choice

STM MOGANO is a mahogany and oak window and door system

Mahogany and oak are beautiful raw materials that are completely devoid of cracks and knots. In our production, we only use SIPO mahogany and oak from industrially-cultivated plantations, where the replanting of new trees counteracts the harvesting of trees.

STM's oak and mahogany are specially sorted according to our own regulations on colour, weight and more (with a density of minimum 550kg per m³). The beautiful red-brown SIPO mahogany gives warm darkness to the house, glowing with an individual and exclusive touch. The oak wood 'weathers' with oil, so when the surface becomes gray and dull to look at, you know that maintenance is needed.





Mahogany is a noble species of wood, which by nature has a very high content of oils and salts, making the tree extremely resistant to attack by rot and fungus.



PRODUCT DATA: MOGANO

Design	Frame: Oak Framework: Oak
Surface treatment	The standard surface treatment for oak is a 2-step treatment of pigment and then a clear oil treatment.
Security package	STM security package 1.
Double glazing	2 layers of low-energy panes with warm edge
Glazing beads	Oak Alu-bottom glazing beads (for an additional charge)
Frame	52 x 90 mm (for an additional charge) 52 x 115 mm 52 x 144 mm (for an additional charge)
Window bars	24 mm (energy window bars) 42 mm for an additional charge 64 mm for an additional charge
Technical data:	MOGANO
U-value: (Uw)	+1,40
G-value: (Gw)	+0,57

Mahogany gives your property a natural, noble and elegant look - with minimal maintenance required!



We can offer our entire product range in mahogany or oak.



By default, our mahogany elements are supplied with wooden drip bars, but can also be supplied in powder coated brown aluminum. The high levels of oils and salts make the mahogany tree an ideal choice for exterior windows and doors.

Standard mahogany elements are supplied as standard with a base oil such as Chinese wood oil and linseed.

FACTS

ABOUT MOGANO

The mahogany and oak that STM Windows use is specially sorted by our own regulations on colour, weight and general quality. Both mahogany and oak have a density of at least 550kg per m³ and mahogany has a reddish brown colour that gives the house an individual touch thanks to its warm glow.

By nature, mahogany and oak have a very high content of various oils and salts which are extremely resistant to attacks from rot and fungus. Therefore, there is only a minimum of maintenance required.

Maintenance consists solely of the application of oil. The timber even 'asks' for oil, as the surface becomes grey and dull to look at when the window needs maintenance.

Surface Finish:

Surface treatment of mahogany is performed by default as a 2-step process in the form of a pigment stain, and then a clear oil treatment.



A photograph of a stone house with a dark grey door and windows. The house has a stone wall and a tiled roof. A dark grey door with a small window is on the left. Two dark grey windows are on the right. A stone wall is in the foreground.

The gateway to your home

Whatever house you live in, the front door is the portal to your home and reflects the style and mood of the house. Choose your new door carefully so you are sure it fits your house, your requirements and, not least, protects your home against the climate for many years.

Choose your front door with care: it should be inviting and match the style and soul of the house. Both material and colour choices for a main entrance are often different to the windows - this gives your house extra style and character.



Accessories

The icing on the cake of personal expression is found in the accessories you choose for your new door. STM offers endless options such as numerous types of door thresholds, kick plates, handles, locks, door spy-hole, a letterbox and additional security measures.

Maintenance

Think about how your new door should be maintained. An oiled solid mahogany door requires more frequent maintenance than a painted exterior door. Location in relation to sea air can also be important. Dark colours can be a challenge on south-facing facades, because dark colors absorb more light and thus have a greater risk of fading.

Security

To reduce the risk of burglary, many models come with extra-powerful brackets as standard. You also have the opportunity to opt for solutions that further secure your home, such as extra cylinders or security cameras.

Energy

Building regulations require external doors to be well insulated and tight so that a lot of heat is not wasted. Look for the U value of each unit. The lower the U value, the better the door is at keeping your home warm. All STM exterior doors are DVV marked and guarantee a high quality door. The DVV mark is Vindues Industriens certification, which ensures that the doors meet a number of requirements for material quality and design. All STM doors are highly insulating, stable and extremely durable.

Colours

The colour and surface texture determine the overall impression of the door and thus help to give the whole house its character. The same door can change its expression when you see it in a different colour. Choose from one of our many standard colours or opt for a special colour for a small fee. Note that our glass strips are black by default and our sealing strips are light grey, regardless of the colour of the door.





The range allows you to design a door that is just right for you and your house. STM's front doors are suitable for both new construction and renovation.



STM doors come with hardened security bolts, adjustable burglar-proof locking points and security-glued panes.

You can order the door with a solid designer L-shaped stainless steel handle together with a factory fitted rosette and cylinder. Some items can be delivered without certain hardware if required.



Adjustable final locking point:

Security locking point - adjustable and fitted with inclined screws for added protection.



Lock and Handle:

Ruko Lock with series 1200 cylinder and Scanflex handle - see page 44.



Security:

Entrance doors can be fitted with double cylinder and are fitted with security bolts as standard.



What is important?

There are several things you should think about before buying a new front door:

- ✓ The door must match the style of the house
- ✓ The door must be durable and of good quality
- ✓ Ask yourself, do you want the door to add light to the hallway?
- ✓ The door must be easy to maintain
- ✓ The door must be easy to close and lock
- ✓ The door must be burglar-proof
- ✓ Ask yourself, what door accessories will you want?
- ✓ The door must meet the appropriate energy requirements

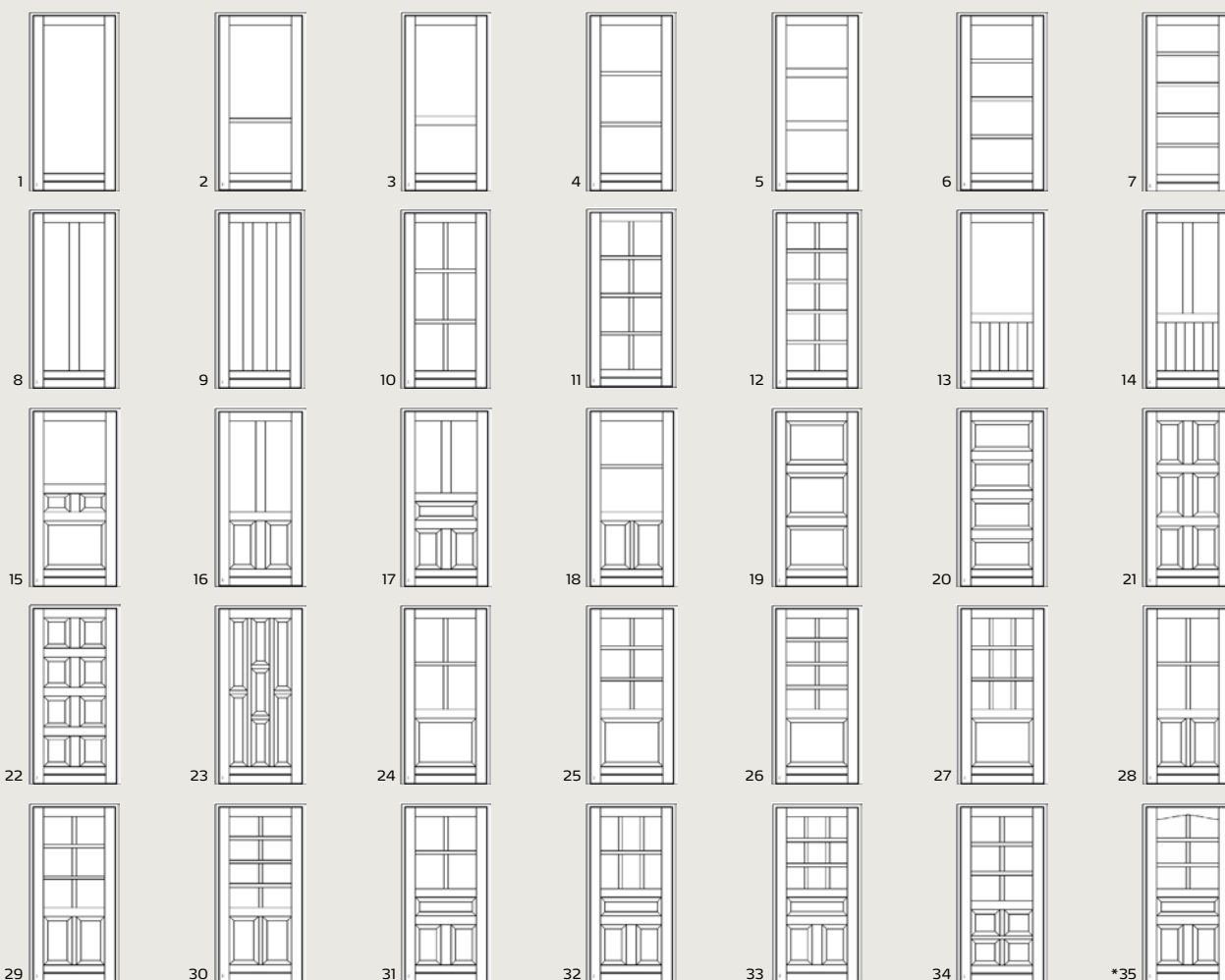




Entrance Doors

STM frame-style entrance doors are the right choice if you want a solution that is identical to STM windows. The door is made of solid wood from sustainable forestry with or without an external aluminum profile. Choose from an aluminum door threshold or solid hardwood. The door can be divided into sections with either low-energy glass, as clear or ornamented, or fillings in different profiles. Bars can be selected as 24, 42 or 64mm.

The frame door is available in four different materials: **Pine** - The classic door made of finger-jointed knot-free heartwood pine with "2ØKO" surface treatment. **Wood/Alu** - the maintenance-friendly door made of finger-jointed knot-free pine heartwood, lined with aluminum profile exterior. **Mahogany** - Choose a more intense colour and get a beautiful door in oil-treated mahogany. **Oak** - An exclusive and different solution in oil-treated oak.



By default, TINIUUM has only one frame piece at the base

* Not supplied in wood+alu

Plate door construction:

- Insulated sheet of extruded Polystyrene foam (XPS)
- Longitudinal back veneer
- Aluminum vapour barrier and stabilizer
- Longitudinal veneer - ensures stability
- Cross veneer - ensures stability
- 1.5 mm knife-cut front veneer - gives a good wear layer



Panel Doors

STM panel doors are elegant, durable and insulated doors in maintenance-sensitive materials. Together with STM's windows, they create a coherent solution that increases the value of your house and will be a joy for many years to come. Panel doors are available with many different grooves, cutouts and fillings that can be combined in countless ways. Contact us if your wishes fall outside the examples shown in the brochure and we'll make them a reality.

The door plate is constructed as a solid sandwich construction, consisting of a high-insulating foam core with four-layer pine wood as well as an aluminum vapor barrier on the front and back. Choose between an aluminum or a solid hardwood door threshold. The panel door is supplied as a smooth veneer or with exterior profiles. If you choose a wooden and aluminum panel door, the frame will have an aluminum exterior, but the door panel itself is in veneer, and is not aluminum clad.



Fakse A
(not possible in mahogany and oak)



Fakse B
(not possible in mahogany and oak)



Ans



Egå



Fønø



Farsø



Fur



Vrå



Give
(grooves both exterior and interior)



Gjern



Gram
(grooves both exterior and interior)



Hals



Henne



Højer



Ikast



Vig



Lækken
(not possible in mahogany and oak)



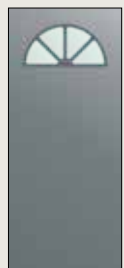
Neksø



Samsø



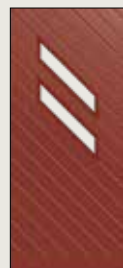
Skals



Sorø



Sæby



Tjele



Vemb



STM Easy-Close Door

An easy-close front door, where you can hear and feel the quality - convenient, comfortable and extremely burglar-proof

The door is easily closed by pulling or pushing the door leaf. Two bars automatically pop up and lock the door. The drop bars have a projection of 20mm when the door is closed. With the locking bolt it means that the door has three locking points. With STM HandyDoor, you avoid having to use force to lift the door handle to activate the pass lock.



The door is ideal for the family who wants an exclusive and easy-to-close front door. In addition, STM HandyDoor is also particularly suitable for retirement homes, nursing homes, institutions or private homes where there is a desire to be able to close a door easily and safely without the use of force.



This lock is activated with a chip without the use of a key

STM Motorised Easy-Close Door

STM HandyDoor+ is an entrance door with a motor-controlled multi-point lock.

The door is easily closed by pulling or pushing the door leaf. Two bars automatically pop up and block the door.

The drop bars have a projection of 20mm when the door is closed. With the locking bolt it means that the door has three locking points.

From the outside, the door is opened with a mobile app, ordinary key, keypad, finger-scanner or the like. It is opened from the inside by operating the door handle, a switch or key.

The door can thus be used without the use of force, and when the door is closed normally, it will also be locked from the outside.

The door is fitted with adjustable safety latch, attached with inclined screws. This provides increased security. The camera is discreetly hidden in the sash and frame, with hidden wiring between the frame and the lock.

For an additional fee, the door can be delivered with an external knob, inner handle and cylinder. The transformer, keypad lock, mobile app and so on must be purchased separately. When installing a door closer, it is important to ensure that the door is always closed and thus locked from the outside.



The door is ideal for commercial buildings, institutions, companies or private homes where there is a desire for increased security, ease of use and high quality.

We can prepare the door for a electronic keypad or finger scanner if required.



Hidden wiring between the frame and the lock, positioned within the frame.



A keyboard enables operation from the outside without the use of a key.

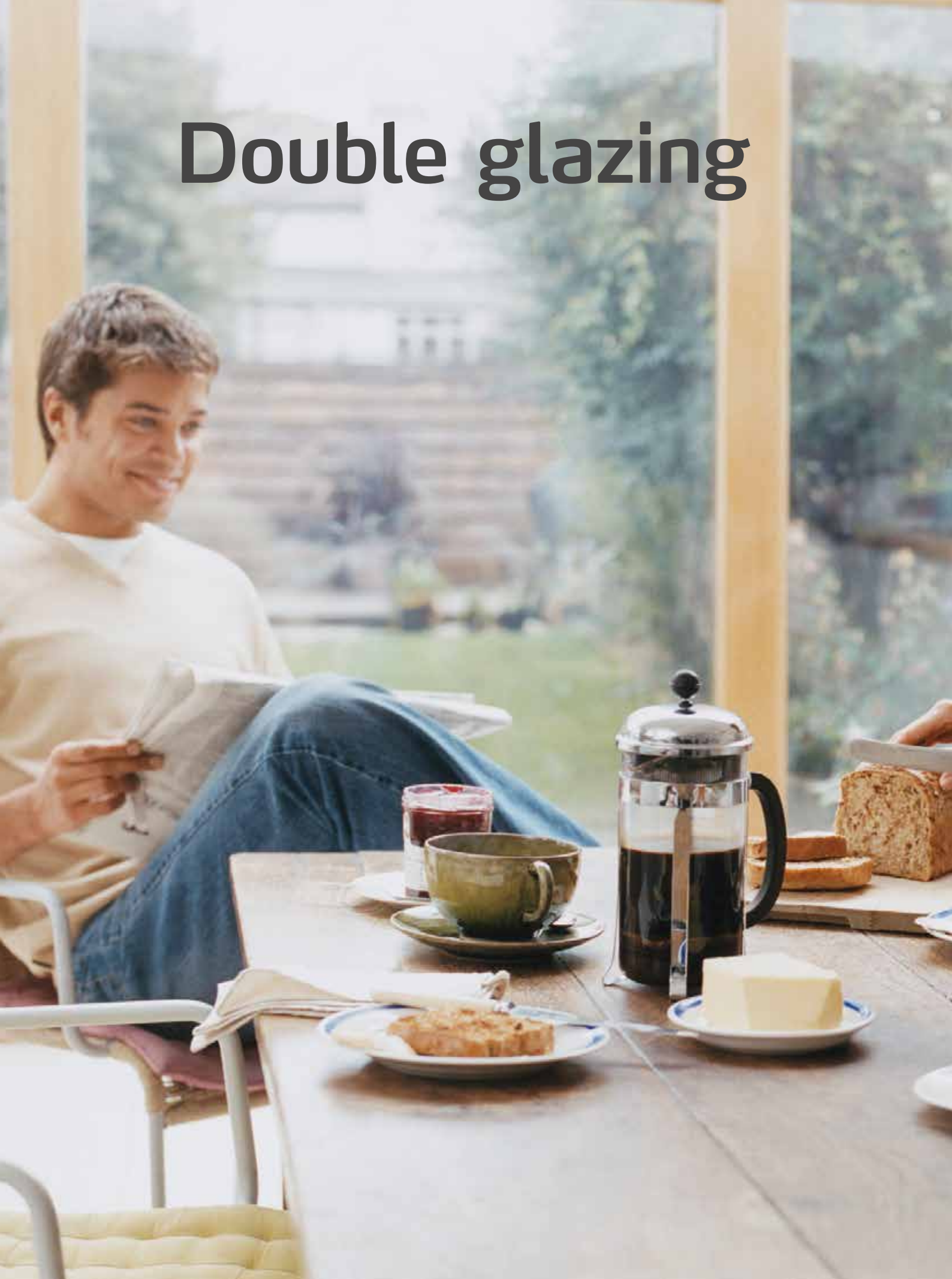


The two bars move automatically forward and hold the door in place.



The door can be supplied with an external knob, inner handle and cylinder.

Double glazing





Glass is not just a transparent necessity in a window, there are many factors to consider.

The right choice of glass contributes to a good indoor climate and helps ensure the personal safety of your home.

What do you prioritise?:

- ✓ Personal safety?
- ✓ Burglary prevention?
- ✓ Effective protection against damage?
- ✓ Noise reduction?
- ✓ Energy-saving glass?
- ✓ Limiting heat loss?
- ✓ Reduction of energy bills?
- ✓ UV prevention? (reduces bleaching of curtains, furniture, floors and carpets)

Discover more on the next page >>>



STM uses only low-energy panes consisting of two or more layers of glass glued to a warm-edge spacer and with a gas mixture (argon or krypton) in between. The warm edge creates a higher temperature at the edge of the glass unit, thereby reducing the draught and cold from the window itself.

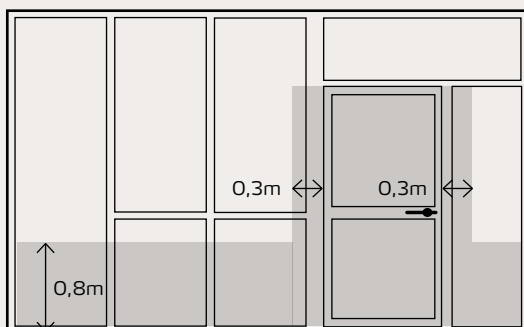
The following properties can also be combined together, making these options well-worth considering before making a final decision.

Safety glass and personal safety

For large windows or specially exposed windows, it is a good idea to choose safety glass. If parts of a window are placed within a door, within 800mm of the finished floor level, or within 300mm of a door, safety glass should be chosen.

If you want to live even more safely and be undisturbed by ambient noise outside, you can buy your items with laminated glass. The laminated pane is hard to break, creating difficult conditions for any attempted burglary.

A graphical overview of where the use of safety glass is recommended



Sunscreen glass

A bad indoor climate in the form of high temperatures can occur if too much of the sun's energy is allowed to penetrate the windows. With sunshade double glazing, you can keep up to 85% of the sun's energy out. Thanks to the solar glass, your air conditioning and ventilation systems will be working less hard and use less power as a result.

Soundproofing windows

Noise from traffic, trains and industry can be remedied by the use of sound-insulating double glazing which is specially developed for sound and noise-canceling purposes. This allows you to enjoy a consistent and comfortable environment.

Frosted and patterned glass

This glass type provides a little more privacy, which may be desirable in a bathroom or hallway. See the different types on page 43.

Low-Emissivity Glass

Low-E glazing reduces heat loss and improves the indoor climate. Combined with ventilation, low-E windows will also reduce dew formation on the inside of the window.





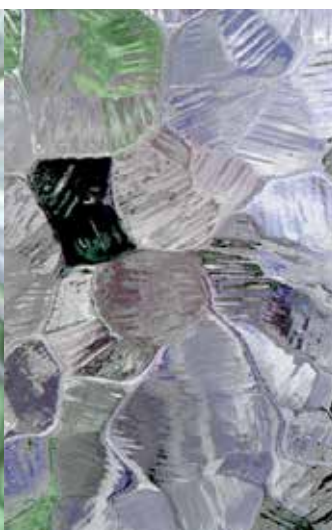
For bathroom windows, there are many options for different types of glass, where the pattern still provides privacy.

Clear glass

1. Gross Artic

2. Klarglas C

3. Klein Cathedral

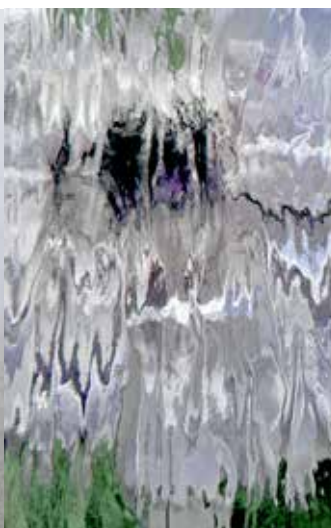


4. Cotswold

5. Satimat

6. Silvit

7. Master-point



Locking System

Ruko Serie 1200



Front door/back door



Windows



Garage



Post box



Terrace door



Padlocks

Facts about Series 1200

- Meets DS/EN 1303
- Drill-secured
- Patented key profile
- Patented technology
- Keys made of fresh silver
- Keys can only be copied from an approved Ruko dealer

The highest level of security *set requirements for your locking system*

- ✓ Patented**
The lock cylinder uses the new patented d12 technology. The cylinder is made up of 6 advanced pins, with 2 code heights per pin and therefore 12 code positions per key.
- ✓ For all doors**
Series 1200 locking cylinders can be fitted in all locks to fit Ruko's wide range of fittings. Series 1200 is available in two variants: Polished brass and stainless steel.
- ✓ The green code chip**
The green code piece, designed as a key, should be kept in a safe place so you can always find it again. The code chip must be used if you want to order an extra lock cylinder or keys.



It is possible to supply your front door with a cylinder lock both inside and out, so you are better protected against burglary.

Note:

When ordering doors, the cylinder and handle are fitted from the factory.



With the Series 1200 you can use the same key for all doors and locks in the home

STANDARD COLOURS FOR TIMBER - 20% GLOSS

Pure White (RAL 9010)	Blue Grey (RAL 7031)	Mahogany Brown (RAL 8016)	Olive Green (RAL 6003)
Cream White (RAL 9001)	Black (RAL 9005)	Brown (RAL 8007)	Fir Green (RAL 6009)
Light Grey (RAL 7035)	Signal Red (RAL 3001)	Grey Brown (RAL 8019)	Mahogany
Signal Grey (RAL 7004)	Brown Red (RAL 3011)	Gentian Blue (RAL 5010)	Oak
Anthracite Grey (RAL 7016)	Swedish Red NCS4550Y80R	Emerald Green (RAL 6001)	

Optimal finish and abrasion resistance - STM applies 20-30% more paint to the wood elements than the industry-minimum requirement, which is 80microns.

Please do check your preferred colour against an official RAL chart. Screen colour profiles and brochure printing accuracy can affect how the colours are shown.

STANDARD COLOURS FOR ALUMINIUM - 30% GLOSS

Pure White (RAL 9010)	Traffic Grey (RAL 7042)	Brown Red (RAL 3011)	Black Green (RAL 6012)
Cream White (RAL 9001)	Anthracite Grey (RAL 7016)	Mahogany Brown (RAL 8016)	Cobalt Blue (RAL 5013)
Light Grey (RAL 7035)	Black (RAL 9005)		

SPECIAL COLOURS FOR ALUMINIUM

Pure White (RAL 9010) Fiji

Futura Gris 2900 Sablé
- Standard

Black (RAL 9005) Fiji

Anthracite Grey (RAL 7016)
Fiji

Futura Noir 900 Sablé
- Standard

Futura Gris 2150 Sablé

Futura Noir 2100 Sablé
- Standard

Futura Gris 2500 Sablé

Futura Noir 2200 Sablé

Many of the special colours have a rough surface, giving the window profiles a more rustic appearance. The colours shown in print cannot be directly transferred to the elements.

Therefore, we always recommend that colours be accepted based on swatches or from a recognized RAL colour chart.

Choosing a special colour, or a non-standard RAL will add a surcharge.

Try the 'window designer' at www.stmwindows.com

Choose the right colour for windows and doors

We give you something to choose between.

Our products come in many standard water-based colours, but if you do not find the colour you want, you can choose from a range of special colours for a small additional charge.

The painting of our window and door elements takes place in our automatic painting system under continuous control.

First, the elements get a primer. Then, the elements are sanded before we apply the final finish.

We also make a lot of our paint treatment ourselves - the optimal paint treatment gives the elements a warm and durable surface for a long life.

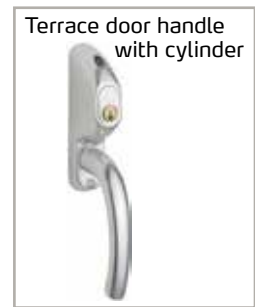
Our elements typically come with 20-30% more paint than the window industry demands for a paint layer of 80microns. For wood+alu, STM can also offer the popular sable surfaces for a small fee.



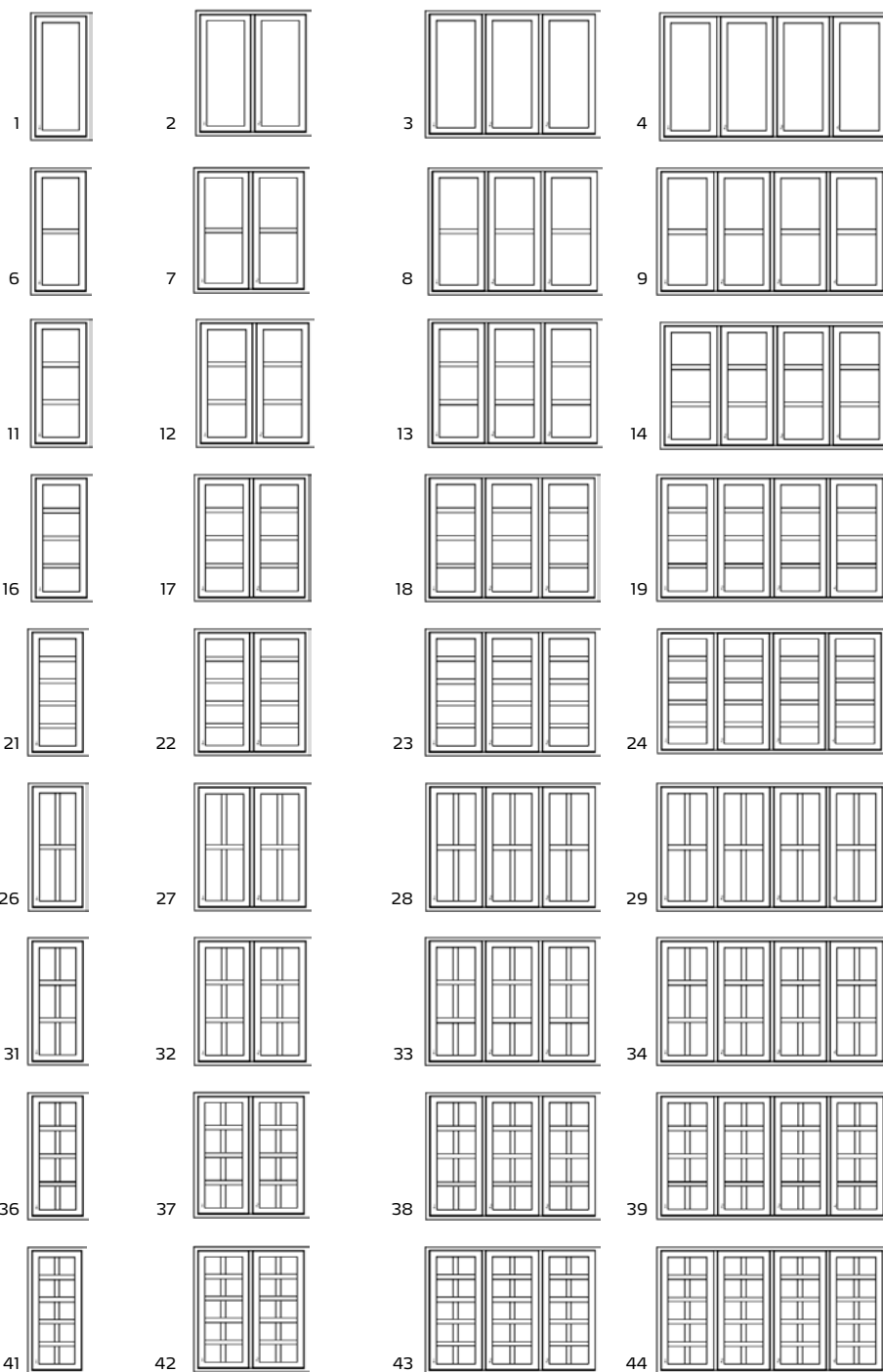


***STM creates
window profiles
and designs according
to good craftsmanship***

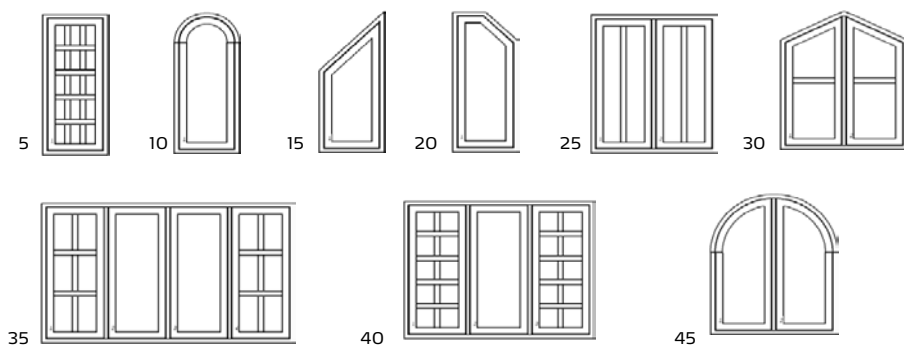
The 'invisible' accessories



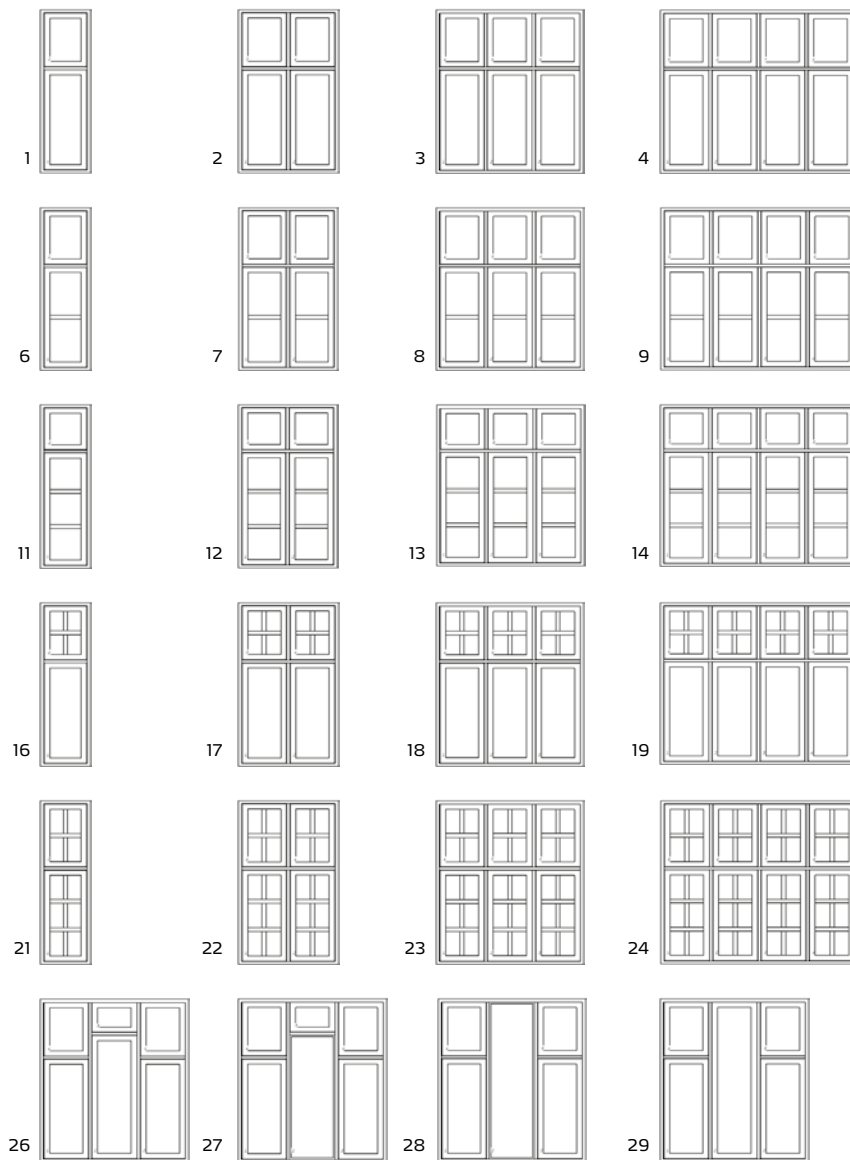
Side guided and side-hung windows



Other options

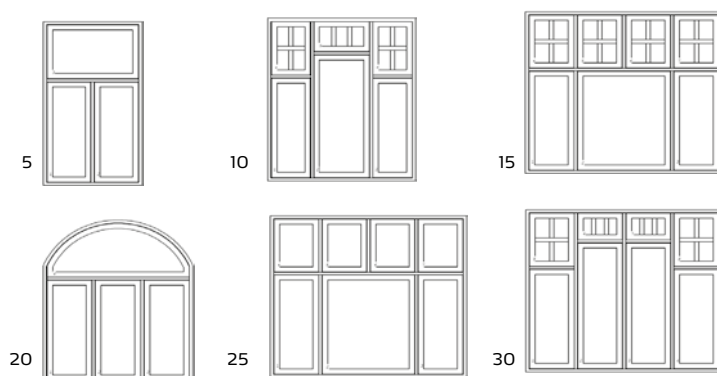


Traditional combination windows



Classic and stylish designs - STM produces windows to meet your aesthetic requirements for any renovation project

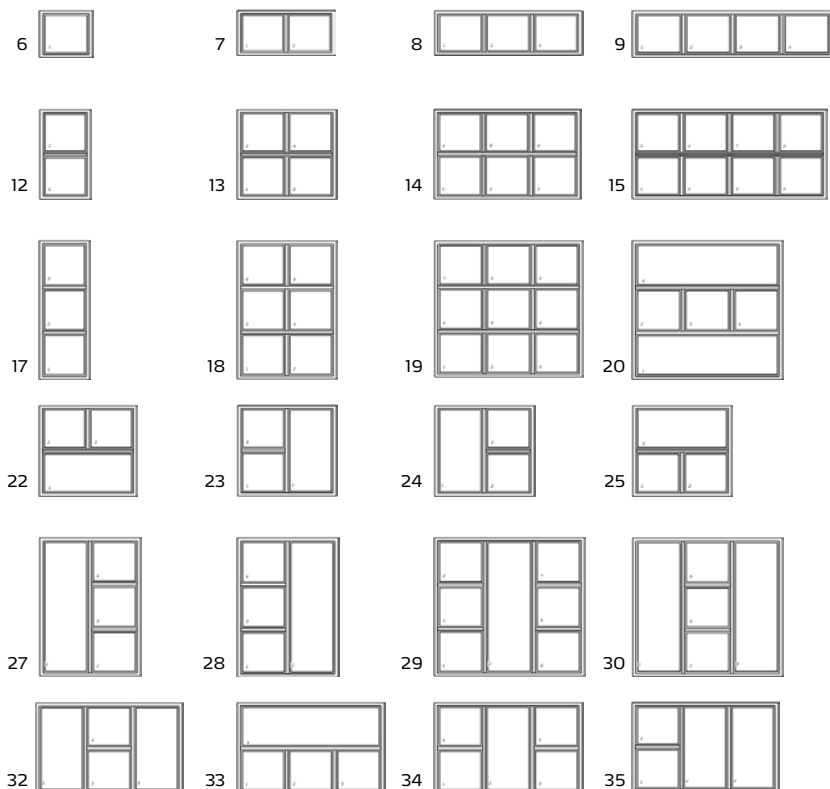
Other options



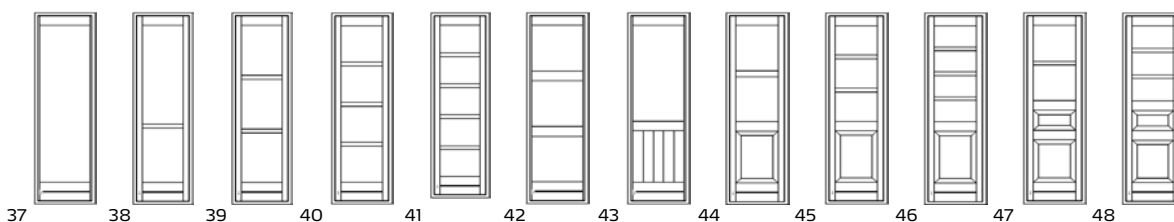
Top guided and reversible windows



Fixed frames

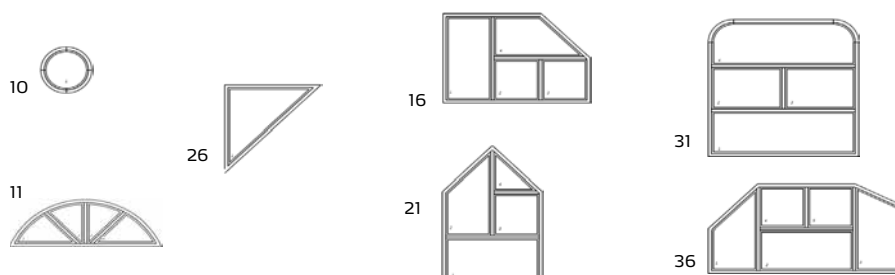


Sidelights

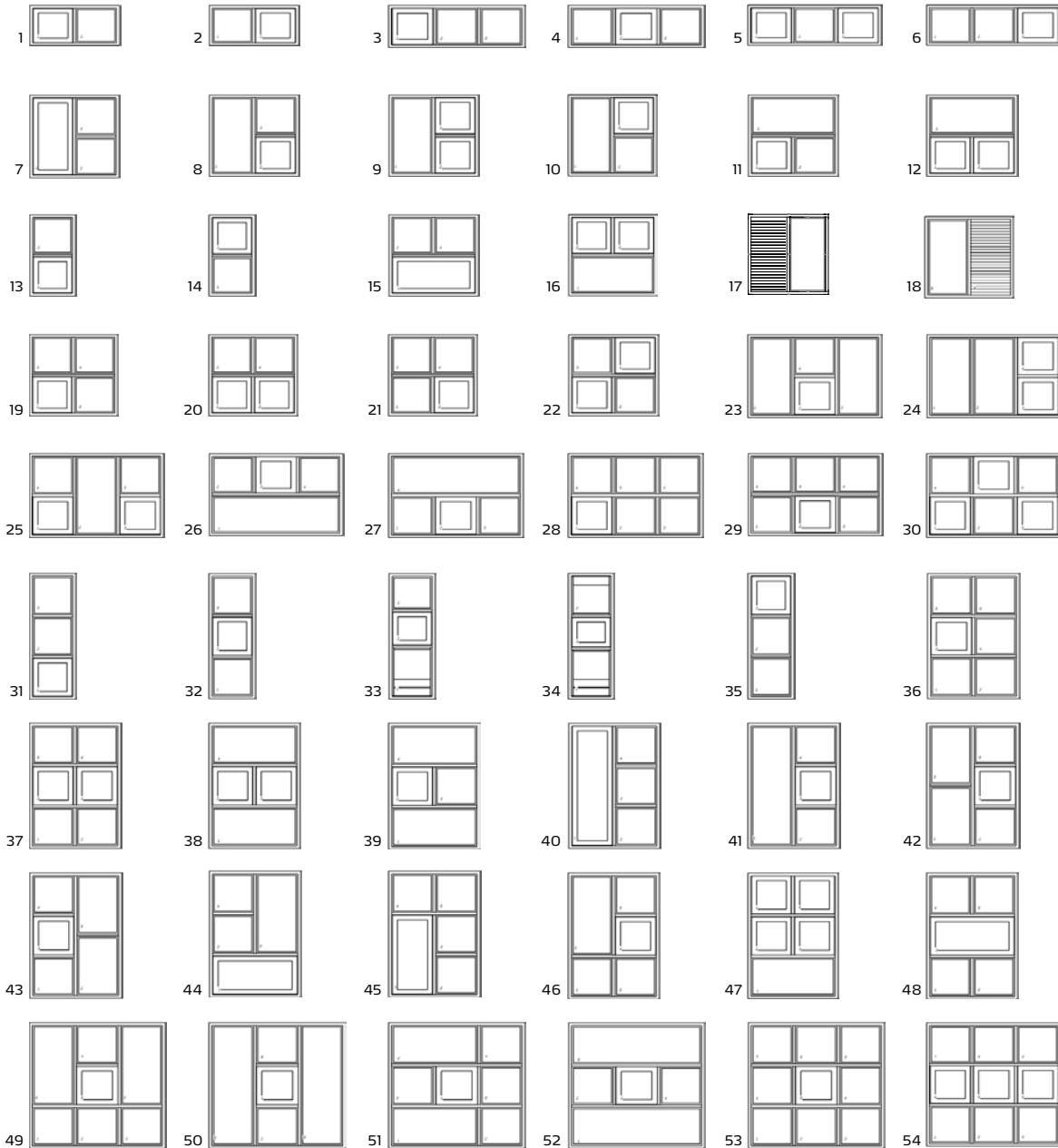


By default, TINIUM has only one frame piece at the base


Other options



Combinations

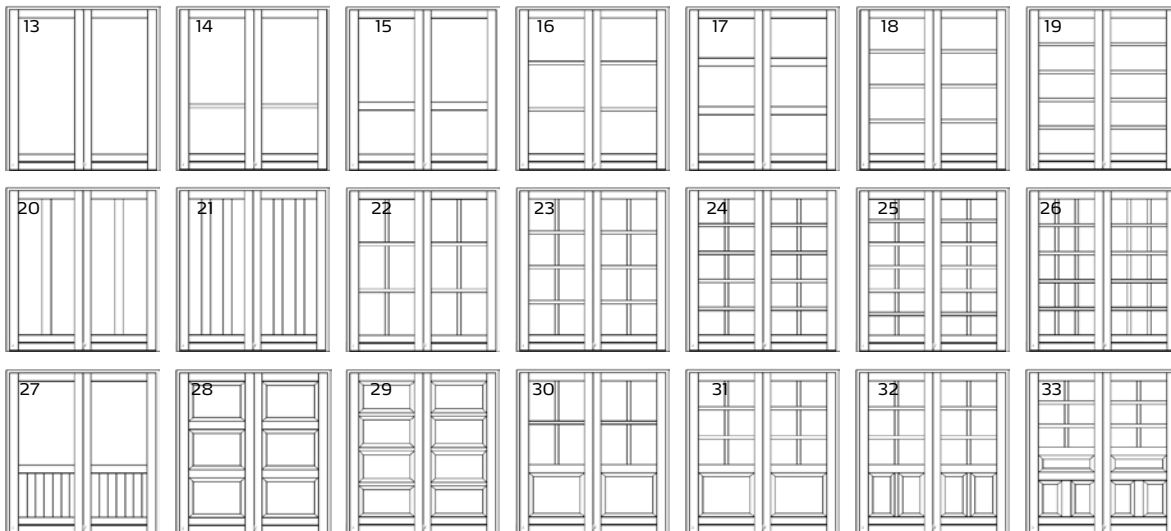


Future-proof construction - STM uses a composite material in a wood+alu window base - a construction that provides the elements with good insulation values whilst also being maintenance-free.



*No standard off-the-shelf products
- STM produces all windows according
to bespoke requirements*

Double doors



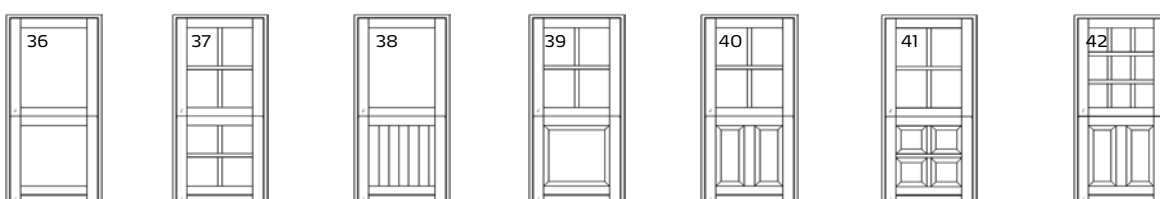
By default, TINIUUM has only one frame piece at the base

Sliding doors



STM offers a complete programme of window systems and ranges, from a classic design to a clean and modern aesthetic.

Stable doors *outward-opening only*



By default, TINIUUM has only one frame piece at the base

Modern production

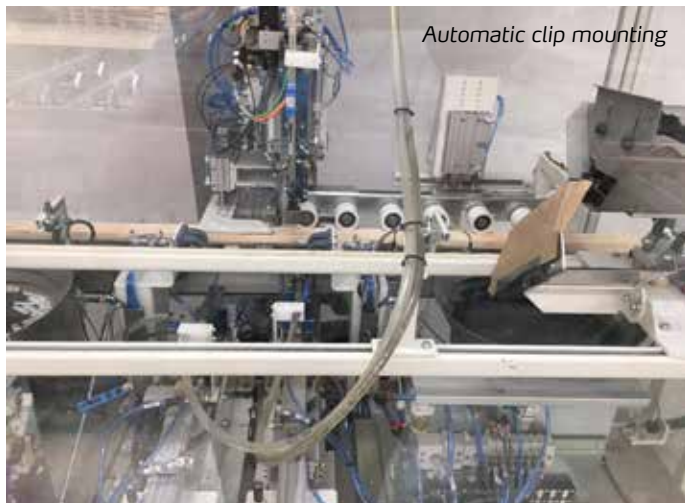
creates competitive prices and high quality





Automatic frame press

The 16,000m² production area in Rudkøbing on Langeland was built in 2008. Production planning and programming of the high-tech processing machines are electronically controlled from our PTA department.

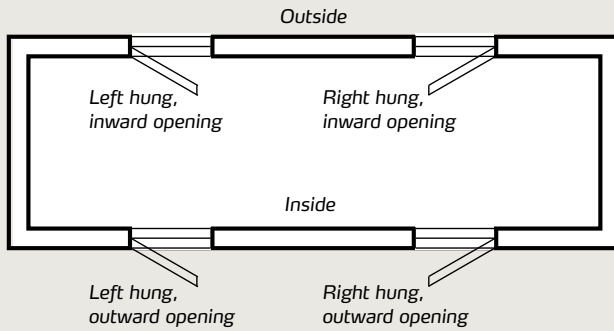


Automatic clip mounting



Robotic painting





Hinges and opening direction

Always remember when ordering to indicate whether the element is right or left-handed and whether the opening direction is inward or outward. Hinges and the direction of opening are indicated from the hinge side, please see illustration above.

Technical drawings

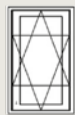
All stand-alone drawings and drawings on order confirmations from STM Windows are always drawn viewed from the outside. The various symbols for the respective opening types are illustrated below.



Top guided



Top hung



Top reversible



Sidehung left, outward



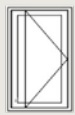
Sidehung right, outward



Tilt-turn left, inward



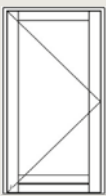
Tilt-turn right, inward



Side guided left, outward



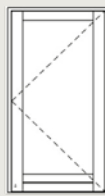
Side guided right, outward



Door left, outward



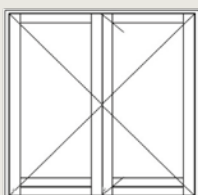
Door right, outward



Door left, inward



Door right, inward



Double door - please note the secondary leaf is marked with small dashes in the centre corners

So much more than windows and doors ✓



Quality

Fast and secure delivery

Window manufacturers

STM Windows is affiliated to the Danish Window Industry and is thus subject to DVV (Dansk Vindues Verifikation), which closely supervises our production and product quality.

STM warranty

STM Windows provides a 10-year warranty on TINIUM products and a 5-year warranty on SAPINO and MOGANO products. The warranty applies to manufacturing and material defects on DVV-controlled products and double glazing, provided that the factory maintenance and assembly instructions (user's guide) are adhered to.



The windows in your home provide a unique setting of light and space. The right choice of windows is crucial for achieving the optimum ambiance and aesthetics in each room. STM can help you make the right choices from the start - and it will pay off in the long run.

Did you know that:

- ✓ STM is connected to the energy labeling scheme established by the Danish Energy Agency and the Window Industry. At the same time, we are also a member of DVV (Danish Window Verification). This ensures that you always get a quality product from STM.
- ✓ Selecting knot-free pine from STM prevents resin extraction from knots on the surface.
- ✓ At STM, we take your safety seriously. All windows and doors come with a wide range of security devices to prevent burglary - at no extra charge.
- ✓ STM can supply your front door in oil-treated mahogany or oak, providing a beautiful, warm and intense colour.
- ✓ STM applies 20-30% more paint than the requirements of the window industry.
- ✓ The most beautiful, safest and most energy efficient solution is usually the cheapest in the long run.



Go to www.STMwindows.com to design your own house with the smart 'Window Designer'



- quality pays off

NORDIC PINE TIMBER
SAPINO

TIMBER + ALUMINIUM
TINIUM

MAHOGANY/OAK
MOGANO

