The Difference is Quality

MARTOM

WELCOME HOME

FRONT DOORS CATALOGUE

2019/2020

by MBC PROJECT™
Modern Build Construction

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55 Panel thickness in mm. More on pages 12 & 13.

Ud from 1.5 Thermal Transmittance Ud. More on page 4.

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EI₂60 Fire-Resistance Class. More on page 5.

Sa, Sm Smoke-Resistance Class. More on page 5.

GI 09 /3B Milky (3L)

3L Print

glazing type

other type of glazing that can be used in a given model.

available versions

55 **OPTIMAL** high thermal standard

55 **OPTIMAL STRONG** multi-point lock

55 **OPTIMAL STRONG T** multi-point lock + thermal jamb

72 **TERMO** high thermal standard

72 **TERMO ARKTIC** thermal jamb

72 **TERMO TOTAL** multi-point lock + thermal jamb

collection name

additional information on schematics

icons situated beside the product contain additional information, ie. given model can occur in different types.

Example shown represents a door model named GI 09/3B Milky.
This model comes in two different tihckness sizes - 55 & 72mm.
It can also have two different glazing styles, 3B Milk- seen on the actual model; 3L Print- picture on the right.
Full information on assembly and equipment options can be found on pages 12 & 13.

COLOURS & SIZES

80/90/100	80/90	80/90	80/90/100	80/90/100	80/90/100	80/90/100	80/90/100
ANTHRACITE	GREY	WHITE	DARK WALNUT	WENGE	GOLDEN OAK	MAHOGANY	WINCHESTER

widths product is available in

colours product is available in

Dear Customer,
Our company was founded in 1999. From the beginning we have focused our efforts solely on the production of front Doors.
In our opinion, having a narrow focus allows for achieving fantastic results in the quality of our products as well as cost optimization. Because of this, we are able to offer you doors with the best quality and functionality at very competitive prices.

Since 2017, our doors have made their way to Irish and British homes through our exclusive representative - MBC Project.

What's most important to us is the satisfaction and recommendations of our customers. We believe that to be the best way to success.

With Compliments,
Martom Team.

Why Martom?

When objectively comparing parameters such as thermal insulation or acoustics, steel doors don't differ much from those made with other materials. In terms of mechanics and weather condition resistance, they often surpass them.

THERMAL INSULATION

It is a known fact that steel is a good conductor of heat. This often creates a stereotype, that steel doors have poor thermal properties. This couldn't be anymore false. With current technological advances, it is possible to produce steel doors with Thermal Transmittance of below 0.9 W/m²K. Such doors are suitable for fitting in passive houses and are in no way inferior to doors made from other materials.

STRENGTH AND DURABILITY

Steel is rightly associated with a material that has excellent mechanical properties such as stiffness, strength and durability. These properties fully describe a door made of steel.

BURGLAR, FIRE AND NOISE PROTECTION

Wherever features such as strength, stiffness, durability and mechanical stability are required, steel doors are the perfect solution. As a result, steel doors are excellent for theft, fire, smoke or acoustic proofing.

WEATHER RESISTANCE

A great advantage of steel doors is their weather resistance factor. They do not deform under the influence of moisture. They are resistant to UV radiation, rain and frost and therefore do not require cumbersome and costly maintenance and painting. It is also very easy to keep them clean..

DESIGN

The aesthetics of steel doors meet the expectations of even the most demanding customers. A wide range of colours, a variety of embossing, glazing and ornamental finishes allow you to create doors in a variety of styles and designs.

FAVOURABLE PRICE

Compared to other doors with similar parameters and properties, such as wood or aluminum, prices of steel doors are very favourable.

Thermal Insulation

WHAT HEAT STANDARD TO CHOOSE FOR A PARTICULAR TYPE OF BUILDING?

Thermal insulation of a door is best illustrated by the heat transfer coefficient-Ud. It determines how much heat will „escape" through 1m2 of the door with a difference in temperature outside and within of 1°C. With a low Ud value, material can offer better protection against heat loss. This means that we will lose twice as much heat through a door with Ud value = 1.7 W/m²K than a door with Ud value = 0.85 W/m2K. It is important to compare Ud coefficients for the whole door, taking into account not only the parameters of the warmest element, which is the panel, but also the frame and the treshold.

To protect the environment, the EU introduced regulations restricting the consumption of heating energy. This applies to all building materials. Doors, depending on where they are built, also have to meet strict standards, which are shown in the table below.

DOOR APPLICATION AREA AND HEAT TRANSFER COEFFICIENT Ud

Ud	No requirements	Ud	1.5 W/m²K	Ud	1.0 W/m²K
Thermal insulation is not important and there are no requirements in this regard. Doors installed between heated rooms (ie, doors to apartments in blocks with a heated staircase) or doors installed for unheated rooms.		External doors for new homes, installed between heated and unheated rooms (also recommended in buildings that are being refurbished).		Energy-efficient homes (only 70 kWh/m^2/year is needed to heat the house).	

The EU guidelines are well matched in terms of energy efficiency and the use of them allows for a rational choice of the appropriate door. When building or renovating a home in the normal energy standard, doors with a Ud value between 1 and 1.7 W/m²K are sufficient - of course the warmer, the better. When an investor decides to build a house in energy efficient or passive mode, you should invest in a door with less than 1 W/m²K. The Ud value for apartment doors in blocks with a heated staircase is of lesser importance, but it is worth to make sure it's not higher than 1.8 W/m²K.

MARTOM OFFERS A FULL RANGE OF DOORS RANGING FROM TECHNICAL DOORS WITH A Ud VALUE OF 2.0 W/M²K TO DOORS FOR PASSIVE HOUSES WITH Ud VALUE 0.86 W/M²K

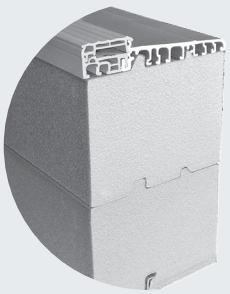
Martom door panels have very good thermal properties due to polyurethane foam (PUR) filling or high quality polystyrene foam. Significant improvements in insulation can be achieved by the use of a thermally insulated aluminum-wood frame and a treshold with a thermal break. Different door standards can be found on pages 12 and 13. When choosing doors of high energy standards, it is also important to ensure that the materials used for their installation have the right thermal properties -the so-called warm mounting.

WE RECOMMEND

When installing a door in the raw state, there is room left between the treshold of the door and the foundation, because at this stage there is no thermal insulation or floor screed. This is a very „difficult" thermal and moisture bridge to properly protect. It can cause many problems in the future, eg. Freezing of the tresholds, fungus on the wall and the floor, peeling parquet, etc.

Martom offers a system of thermal expansion of the treshold, which is a very good solution to this problem. It is made of dense XPS, which is very warm and perfectly holds heavy loads. The profiles have an appropriately angled shape that perfectly fits the treshold profile so that it is supported along the entire width. As a result, the treshold is rigid and does not deform during use. The total height of the extension is 16 cm. If necessary, it can be easily reduced.

The extension is sold in packs of 1.2 m in length.



Noise Protection

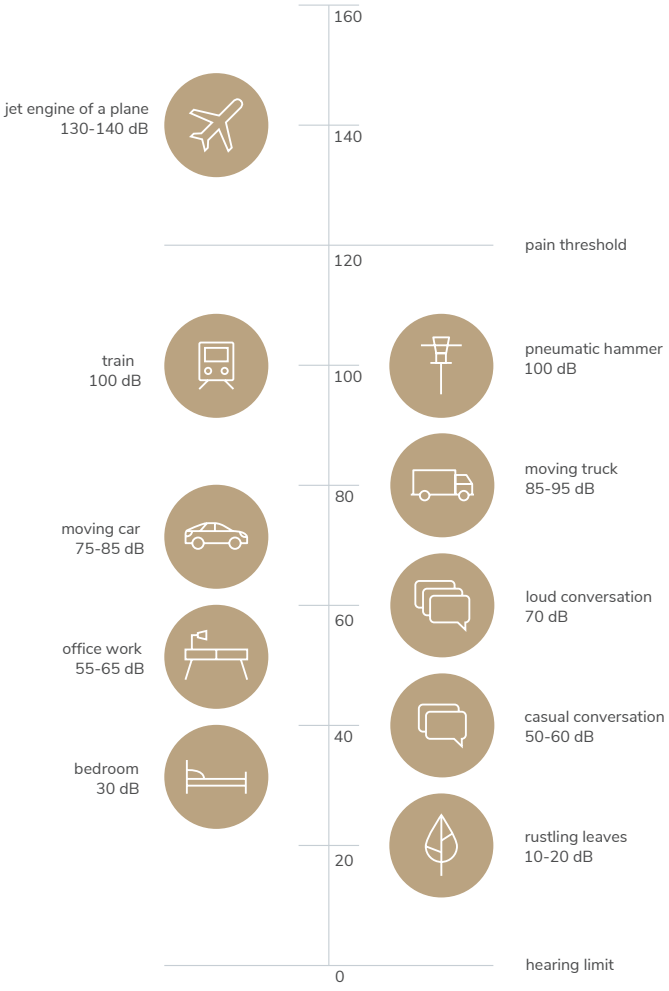
NOISE IN THE RANGE OF 35-70 DB CAUSES NERVOUS SYSTEM FATIGUE, IMPEDES SPEECH INTELLIGIBILITY, INTERFERES WITH RELAXATION AND TRIGGERS STRESS. SUCH NOISE IS CAUSED BY CONVERSATIONS OR TRAFFIC OF MEDIUM INTENSITY

Long-lasting noise can adversely affect human health. It can cause stress, fatigue, nervousness and even aggression.
In the long term it can translate into more serious health problems, such as cardiovascular disorders. Normally, in living spaces such as bedrooms or children's rooms, the noise level should be at an average of 40 dB during the day and 30 dB at night. Full acoustic comfort is provided in rooms where the noise level does not exceed 20 dB.

STANDARD MARTOM DOOR MUTES AN AVERAGE OF ABOUT 30 DB

This is a high level of muting, which is sufficient in most cases. If a building or apartment is constantly exposed to high noise levels, then it is a good idea to buy a door with a attenuation factor of 37-42 dB. Doors with such parameters are able to mute to comfortable levels, e.g. noise caused by intense traffic.

ACOUSTIC DOORS ARE FILLED WITH A SPECIAL SILENCER



Fire Protection

FIRE-PROOF DOORS ARE CLASSIFIED ACCORDING TO HOW LONG THEY CAN WITHSTAND THE FLAME AND REMAIN SEALED.
FOR EXAMPLE, DOORS MARKED WITH EI₂30 RETAIN THEIR FLAME-TIGHTNESS FOR 30 MINUTES

EI230

The doors marked with EI₂30 keep the flame tight for 30 minutes.

Sa, Sm

Even under high temperature conditions, the flow of smoke through a combination of the panel and the frame is small and safe for a person.

The use of fire- and smoke-proof doors in industrial, utility or multi-family buildings is governed by building regulations. It is also worthwhile to install fire resistant doors in single-family houses, especially as a doors to a boiler room or a garage. In the event of a fire, these rooms are separated from the rest of the house. This is important both when the fire breaks out in the garage or in the boiler room, and also outside. Firstly, the household doors provide more time for evacuation, secondly cordon off the fire gathered there from flammable materials or explosives (fuel in the boiler room, gas cylinders, chemicals or fuel in the car). If flammable substances or valuable items
(such as books or picture collections) are stored in other rooms, fire-resistant doors are also recommended. Smoke resistance is also a very important factor as smoke is often a greater threat to life and health than fire. In single-family homes, doors classed as EI₂30 are usually sufficient.

The assembly of fire-resistant doors is similar to the burglar-resistant doors therefore protecting a home from both fire and theft.

Fire-proof doors are available in a 55 mm thickness.

Burglar Protection

CLASSES OF BURGLAR RESISTANCE ACCORDING TO EUROPEAN STANDARDS

In common language there is a term ”burglar-proof door”. In practice, burglar-proof doors do not exist, because all of them can be breached. The question is what tools need to be used for this, how long it will take and how much noise it’s going to make. The burglar resistance class is defined in European standards as EN 1627: 2012.

In accordance with this, a highly skilled technician attempts to force a variety of doors using a specific set of tools. If the door is able to withstand the test using a given set of tools longer than the time specified in the standard, then it can be determined by the given RC class. Assumptions of the standard are given in the table below.

DOOR CLASS TYPE

TOOLS USED DURING A BREAK-IN	RC1	RC2	RC3	RC4
	Without tools: - an attempt to force door by kicking or use of shoulder, - an attempt to raise or break the lock	An attemp to break in using simple tools such as: - screwdriver, - pliers, - wedge, - hammer	An attemp to break in using tools such as: - steel crowbar, - additional screwdriver, - small hammer, - mechanical drill	Tools mentioned before, additionally: - sledgehammer, - saw, - chisel, - axe
MINIMUM RESISTANCE TIME	lack of research	3 minutes	5 minutes	10 minutes

CONCLUSIONS

The conclusion from the above is that even RC2 doors are large barriers for casual and unprepared burglars. Most of them will be discouraged after the first failed attempt to force them. RC3 and RC4 doors are not an option for a casual burglar, but even for experienced and very well prepared burglars they are a barrier requiring the use of specialist and noisy tools. Especially in the case of apartment blocks, where the noise will certainly draw the attention of neighbours, this is an extremely effective protection.

Electronic security is now becoming increasingly common with the purchase of security services. When an attempt is made, the alarm is triggered and an intervention group is notified, which arrives in a short space of time. Any extra minute devoted to the break-in may be crucial in such a situation.

When choosing a door, you should also consult an insurance company. Many of them require you to secure your home or apartment against a burglary to specific standards, and in many cases this involves substantial discounts.

THE RC2, RC3 AND RC4 BURGLAR RESISTANCE CLASSES APPLY TO SOLID DOORS, BUT ALSO IN THE CASE OF GLAZED DOORS, THE ADDITION OF FURTHER SAFETY COMPONENTS ALLOWS FOR SIGNIFICANT SAFETY IMPROVEMENTS.

SAFETY COMPONENTS PER CLASS:

55 RC2

5-bolt
Main
lock

3-bolt
Additional lock

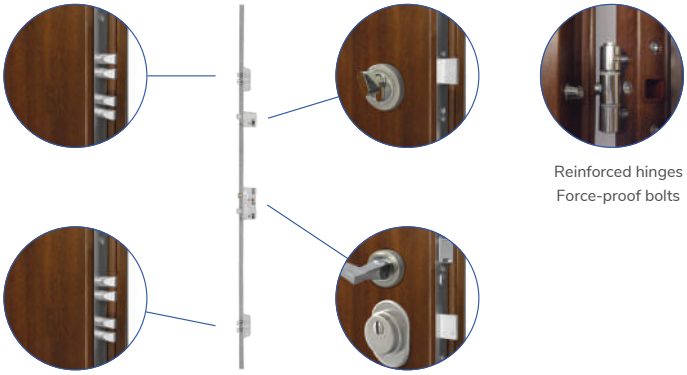
Reinforced hinges
Force-proof bolts

info

RC2 doors are also available in:

-Acoustic 37dB
-Fire-proof EI230

55-s RC3



Reinforced hinges
Force-proof bolts

Multi-point lock ROTO QB

The ROTO QB Multi-point lock of the renowned German company ROTO has excellent burglar-resistant properties thanks to the use of four locks. In conjunction with
burglar-resistance pins, the panel is locked in thirteen different points.

The ROTO QB multi-point lock also has very unique properties. Standard doors are usually equipped with two separate locks - the main, located below the door handle and an additional one in the upper part of the panel. Sometimes, for example, in burglar-proof doors, a third, lower lock is used. When locking or opening the door, one has to turn the key in all of the locks one after the other. The multi-point lock replaces all of the above.
One key motion and the panel simultaneously locks in three places. This is very convenient and can potentially save a lot of time. The ROTO QB is additionally equipped with a fourth lock.

The ROTO QB lock also comes with a unique two-stage clamping feature - after the first turn of the key, the door locks and achieves a standard tightness, after a second twist of the key, the panel is additionally pressed firmly against the door frame for exceptional thightness.

info

RC3 doors are also available in:

-Acoustic 42dB
-Fire-proof $EI_2$30

Smart Solutions

Bluetooth & Code System

NEW!

The sensory panel allows for opening the door using your smartphone or the numeric touchpad by entering a code. This solution is aimed at customers who don't like to carry around tens of keys. The high quality touchpad resistant to all weather conditions is installed directly on the door leaf . Access control can be secured with a 4-8 digit code. The touchpad is equipped with a backlight to facilitate its use at night. An optional feature is also the day/night button.

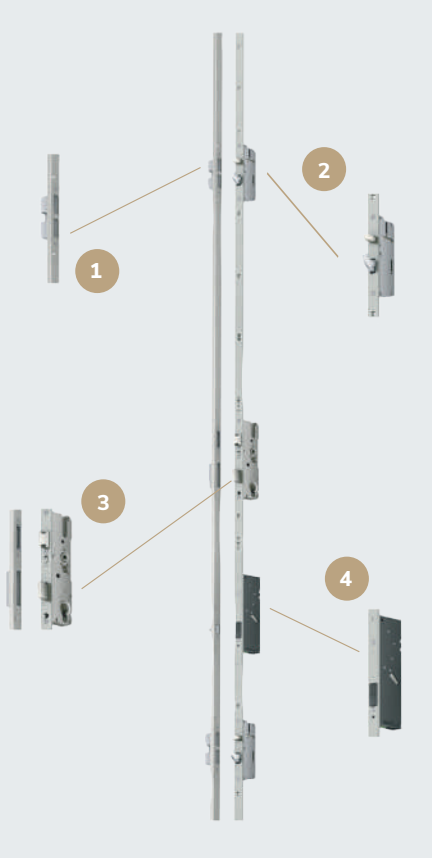
BLUETOOTH & CODE, BIOKEY SYSTEMS AVAILABLE IN THE FOLLOWING DOOR STANDARDS:

- **72 ARKTIC WITH ROTO QB MULTI-POINT LOCK**
- **90 PASSIVE**

Biokey System

This technology allows for opening the door using a fingerprint scanner and holds the certificate for highest protection against outside interference. Such solution does not require a physical key or even remembering a numeric code. The process involves scanning the user's unique fingerprint pattern. The scanner, which is fully immune to weather conditions, is installed directly on the door leaf at a height of 1.3m, allowing children to use it just as easily. Programming access of various users is authorised with the Masterfinger system. An optional feature is also the day/night button.

AUTOMATIC LOCKING SYSTEM ENEO CC

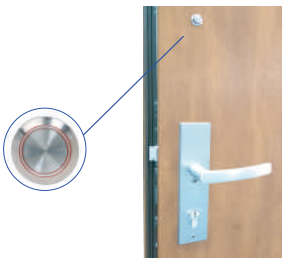


1-hook & bolt hatch
2-locking hook & bolt
3-main lock
4-power unit

Automatic locking system ROTO ENEO CC is the solution dedicated for access control in the Bluetooth & Code, Biokey systems. It's equipped with bi-directional electric motor. The system is fully locked once the door is closed. Opening from the outside is done using a fingerprint scanner, Bluetooth or numeric code. To open the door from the inside, just press the door handle.

DAY/NIGHT BUTTON (OPTIONAL)

Internal View



This button is an additional element to the access control system. Ask your advisor for more detials.

Recessed Handles

NEW!

AVAILABLE HANDLE SIZES

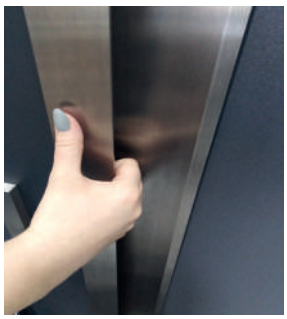
- 45 cm
- 100 cm
- 160 cm
- 180 cm

info

Recessed handrails available only for 72 ARKTIC and 90 PASSIVE doors.

info

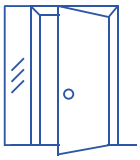
Handles available with push button version. When selecting a handle with a push button, it is necessary to aquire an electromechanical switch and a power supply.



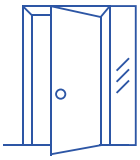
RECESSED HANDRAIL
45 cm handrail with handle-cap
100 cm handrail with handle-cap
160 cm handrail with handle-cap
180 cm handrail with handle-cap
handrail with button
electric lock (day/night)
power supply for electric lock

Side & Top Lights

AVAILABLE SIDE & TOP LIGHT VARIANTS

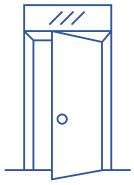


Left Sidelight

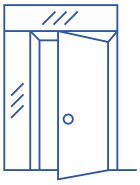


Right Sidelight

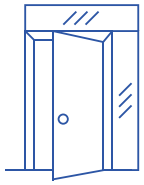
Double-side Sidelight



Toplight



Toplight + Left Sidelight



Toplight + Right Sidelight

Toplight + Double-side Sidelight

AVAILABLE TYPES OF GLAZING

Refelctive | Milky | Sanded 01 | Sanded 02 | Clear | Venetian Mirror

There are 2 different types of sidelight frames available: ALU/WOOD and ALUMINIUM.

Sidelights can be used in the following systems:

ALU/WOOD SIDELIGHTS:

- 90 PASSIVE
- 72 ARKTIC
- 55 NORDIC (toplights only)
- DS (toplights only)

ALUMINIUM SIDELIGHTS:

- 90 PASSIVE
- 72 ARKTIC
- 55 NORDIC
- DS

SIDELIGHTS

-reflective glazing
-milky glazing
-sanded 01 glazing
-sanded 02 glazing
-clear glazing
-venetian mirror glazing

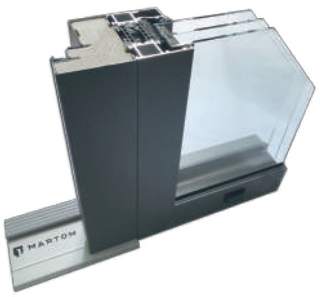
TOPLIGHTS

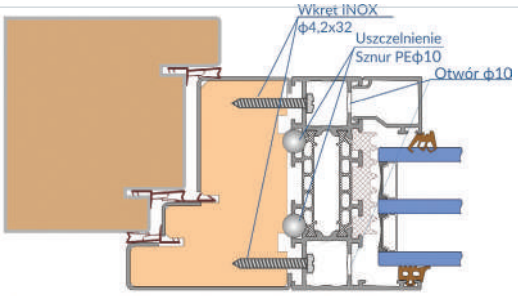
-reflective glazing
-milky glazing
-sanded glazing
-clear glazing
-venetian mirror glazing

There could be a slight difference in the shade of glazing between doors and sidelights due to different sizes of glazing units used in them.

ALUMINIUM SIDELIGHTS

SIDELIGHT PROFILE





90 PASSIVE DOOR AND SIDELIGHT CONNECTION

SAMPLE SIZES OF DOORS WITH SIDELIGHTS

SIZES OF DOORS

90 PASSIVE DOORS

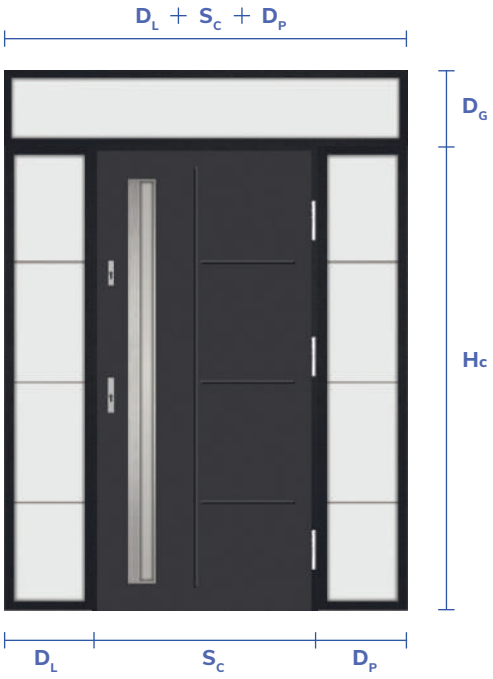
DOOR SIZE	DOOR HEIGHT	DOOR WIDTH
	H_c	S_c
80	2096	941
90	2096	1041
100	2096	1141

72 ARKTIC DOORS

DOOR SIZE	DOOR HEIGHT	DOOR WIDTH
	H_c	S_c
80	2096	911
90	2096	1011
100	2096	1111

55 NORDIC DOORS

DOOR SIZE	DOOR HEIGHT	DOOR WIDTH
	H_c	S_c
80	2075	911
90	2075	1011
100	2075	1111



STANDARD SIZES OF SIDELIGHTS (ALU/WOOD & ALUMINIUM)

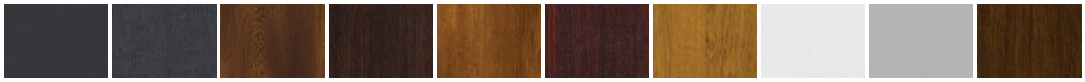
SIDELIGHTS

SIDELIGHT SIZE	SIDELIGHT HEIGHT	SIDELIGHT WIDTH
		D_L/D_P
„30"	H_c	300
„40"		400
„50"		500

TOPLIGHTS

TOPLIGHT SIZE	TOPLIGHT HEIGHT	TOPLIGHT WIDTH
	D_G	
„30"	300	$D_L+S_C+D_P$
„40"	400	
„50"	500	

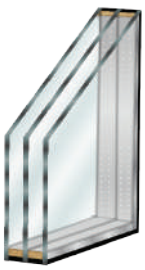
AVAILABLE SIDELIGHT COLOURS

ALU/WOOD SIDELIGHTS	 ANTHRACITE · DARK GREY · DARK WALNUT · WENGE · GOLDEN OAK · MAHOGANY · WINCHESTER · TEXTURED WHITE · LIGHT GREY · BOG OAK
ALUMINIUM SIDELIGHTS	 ANTHRACITE · DARK GREY · ANTHRACITE QUARTZ · DARK WALNUT · GOLDEN OAK

GLAZING UNITS

info **Depending on the thickness of each door panel, specific thickness of glazing units is used ranging from 3 to even 5 panes of glass.**

3-GLAZED



3- glazed unit made up of 3 glass panes and warm glass spacers.

Used in doors with panel thickness of:
- 55
- 72 (with PVC frame)
- sidelights

4-GLAZED

4- glazed unit made up of 4 glass panes and warm glass spacers.

Used in doors with panel thickness of:
- 72 (with inox frame)

5-GLAZED

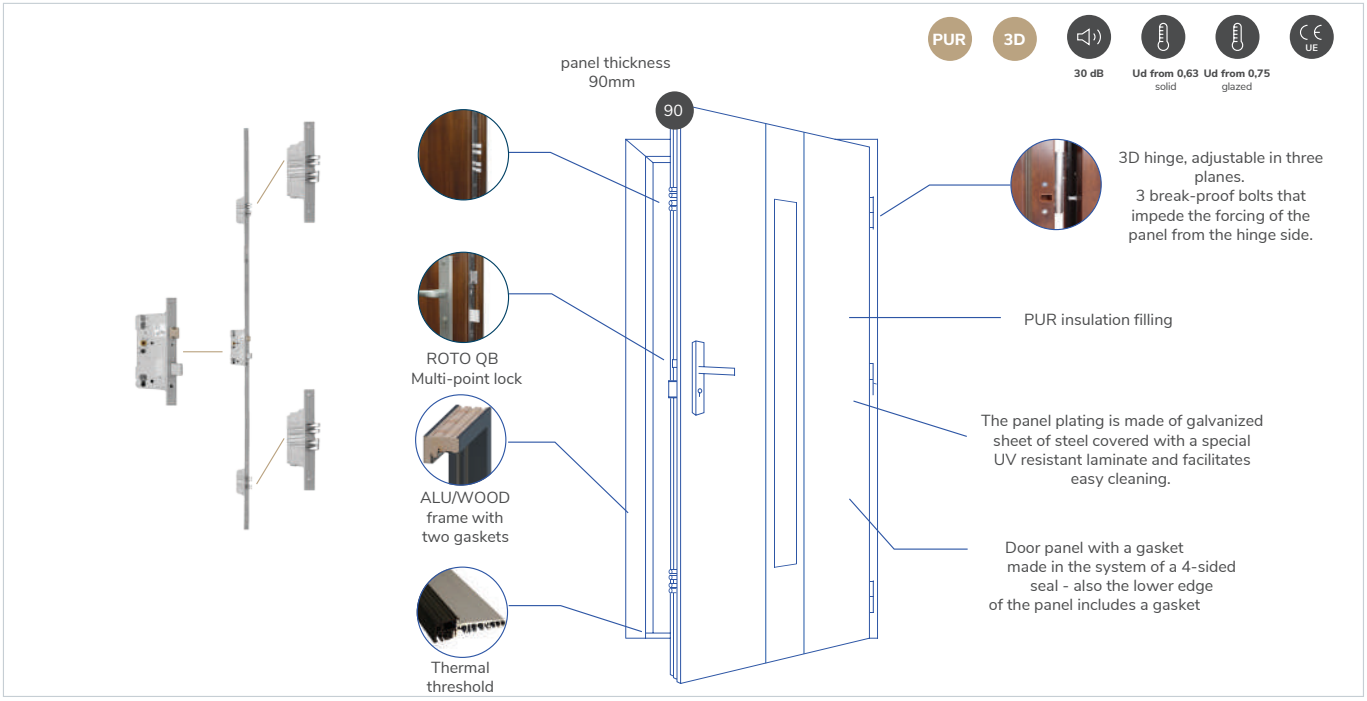
5- glazed unit made up of 5 glass panes and warm glass spacers.

Used in doors with panel thickness of:
- 90

90 PASSIVE

90 PASSIVE Doors are products from the PREMIUM PLUS segment. They meet and even clearly exceed the rigorous requirements for passive houses. Excellent thermal parameters of PASSIVE doors put them among the highest spec products on the market.

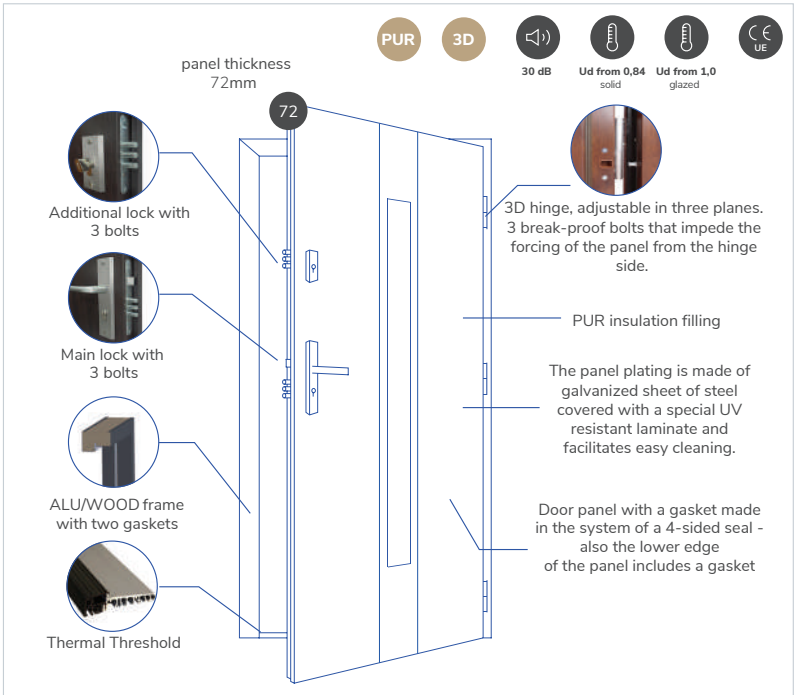
WITH MULTI-POINT LOCK



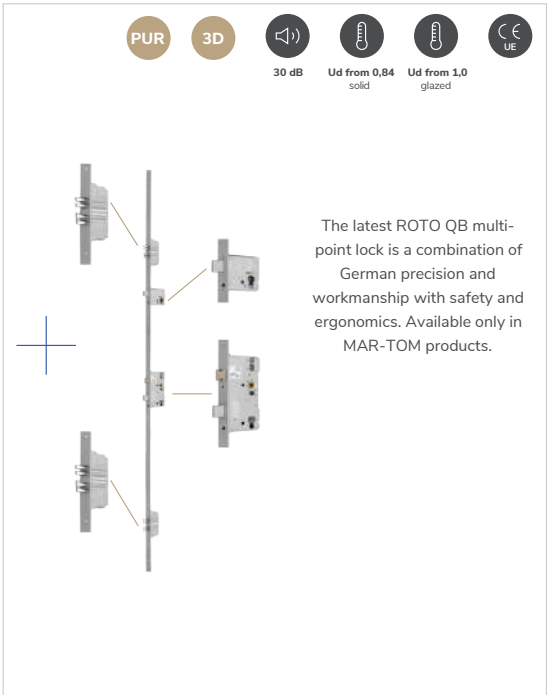
72 ARKTIC

Standard 72 ARKTIC doors belong to the PREMIUM segment. They have excellent insulating properties and are dedicated to houses built to the highest energy efficiency standards. The ARKTIC doors are suitable for near-passive or nZEB buildings.

STANDARD



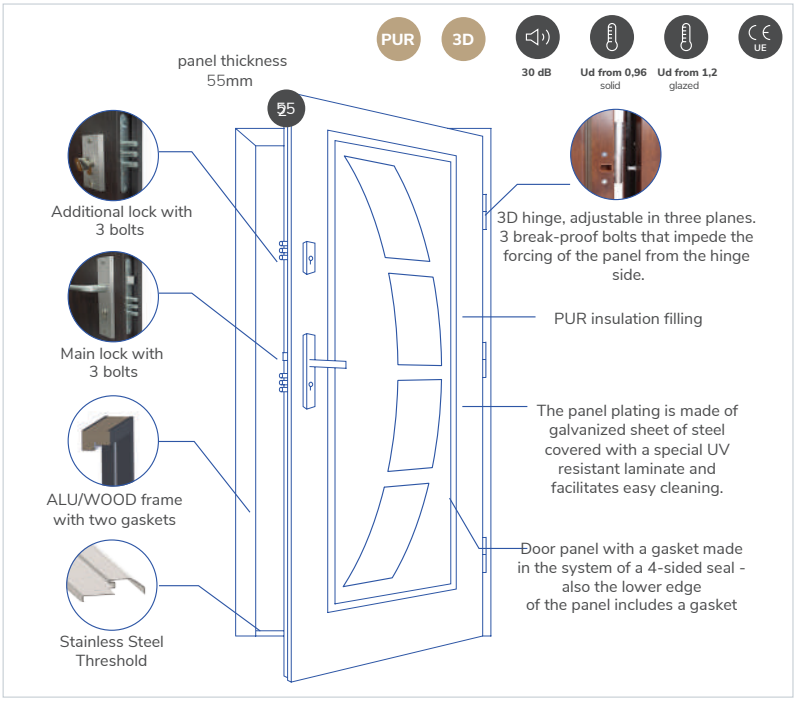
WITH MULTI-POINT LOCK



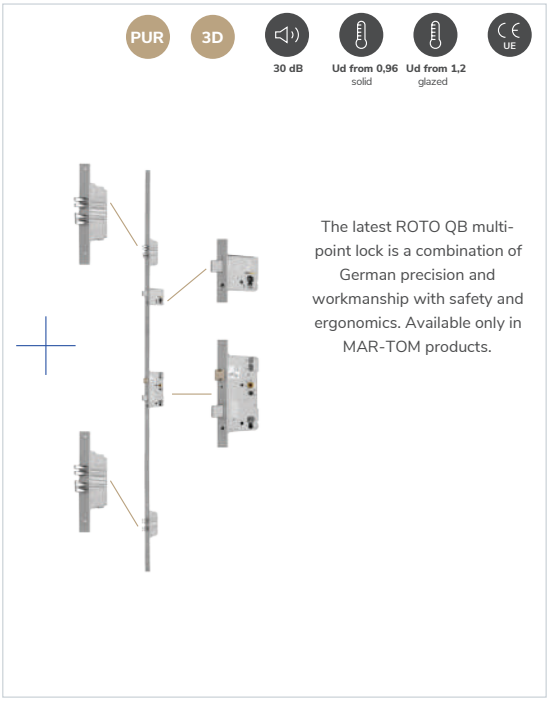
55 NORDIC

55 NORDIC door is a product from the MEDIUM segment dedicated for homes with a high and normal energy standard. Most new homes in the EU are built to such energy standards.

STANDARD



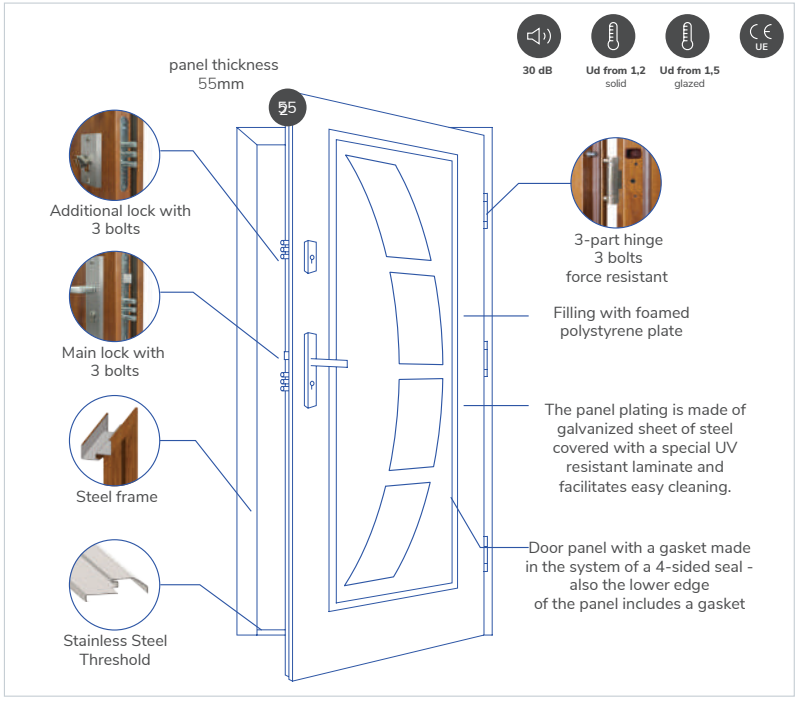
WITH MULTI-POINT LOCK



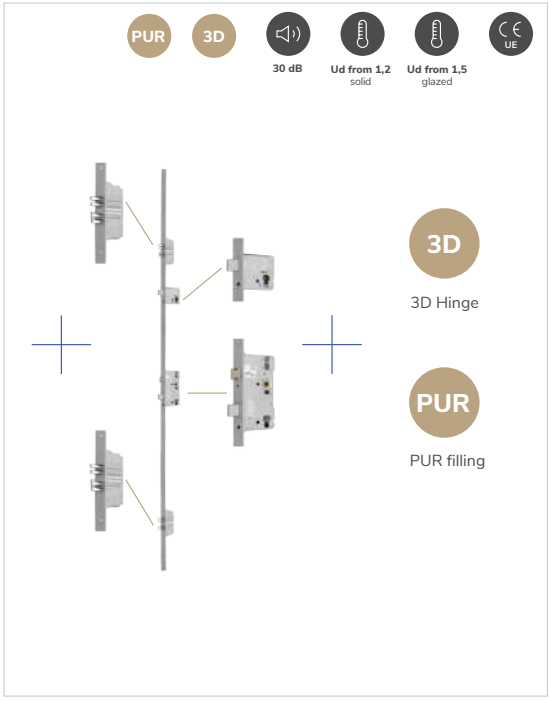
55 OPTIMAL

55 OPTIMAL doors are doors from the STANDARD segment at a very affordable price. OPTIMAL is proposed for homes with a normal and low energy standard. OPTIMAL is very popular among customers renovating older buildings, whose thermal standard is not very high. They are also ideal doors for unheated or poorly heated rooms such as a garage or utility room, where attractive appearance and durability are important.

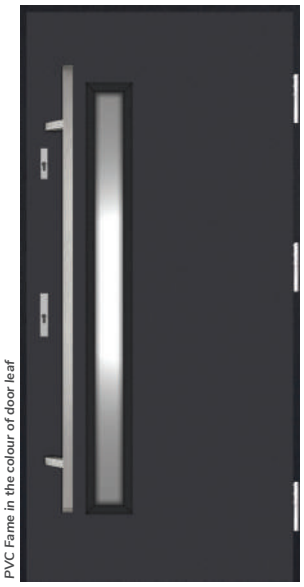
STANDARD



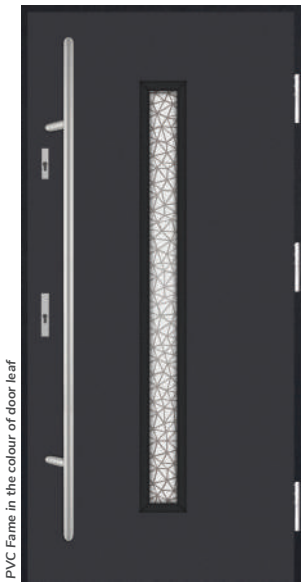
WITH MULTI-POINT LOCK



Solid and Glazed Doors

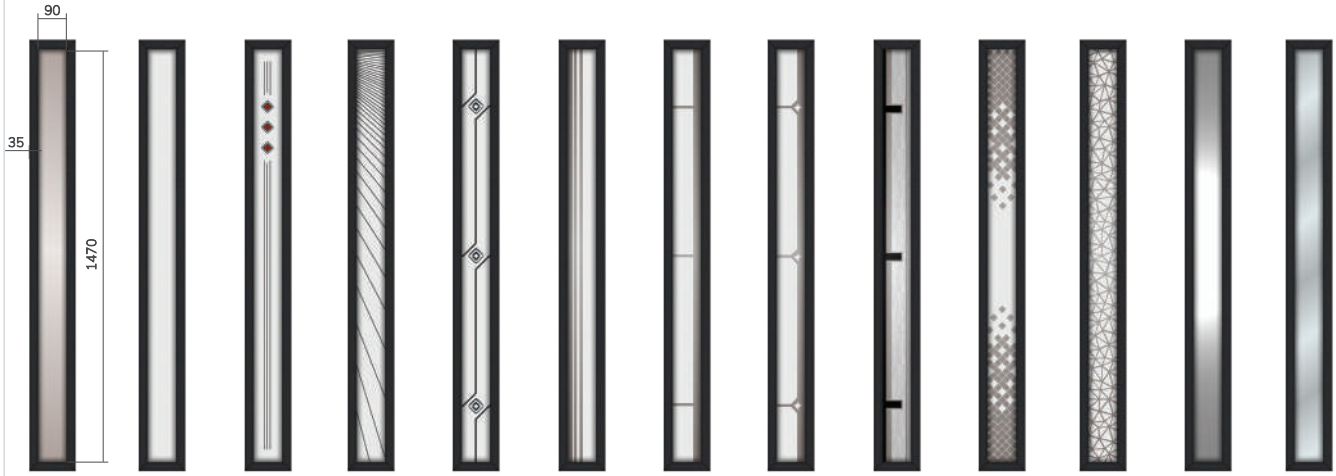


GK 01 /3M Venetian Mirror *(3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3J, 3K, 3N)*



GK 06 /3K Printed *(3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3J, 3M, 3N)*

AK 05 /3H Sanded *(3A, 3B, 3C, 3D, 3E, 3F, 3G, 3I, 3J, 3K, 3M, 3N)*



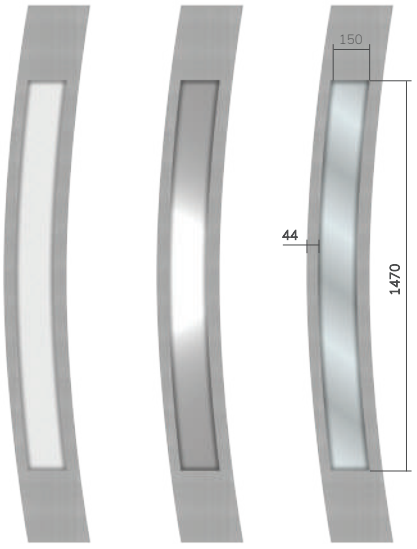
3A Reflective | 3B Milky | 3C Decorative | 3D Decorative | 3E Decorative | 3F Sanded | 3G Sanded | 3H Sanded | 3I Printed | 3J Printed | 3K Printed | 3M Venetian Mirror | 3N Clear

COLOURS AND SIZES

80/90/100	80/90/100	80/90/100	80/90/100	80/90/100	80/90/100
ANTHRACITE	**DARK GREY**	**DARK WALNUT**	**GOLDEN OAK**	**WINCHESTER**	**ANTHRACITE QUARTZ**

FI 58 /54C Sanded *(54A, 54B, 54D, 54E)*

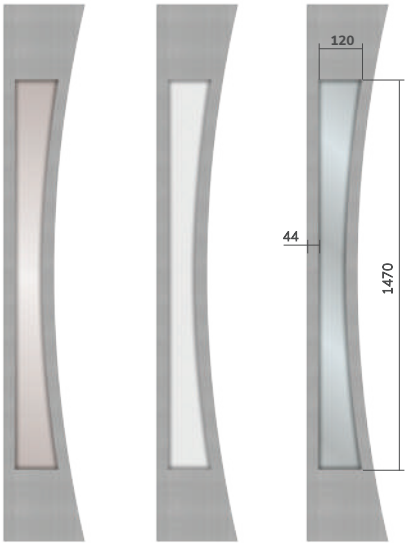
GI 58 /54A Reflective *(54B, 54C, 54D, 54E)*



54B
Milky

54D
Venetian
mirror

54E
Clear



55A
Reflective

55B
Milky

55E
Clear

FI 59 /55C Sanded *(55A, 55B, 55D, 55E)*

GI 59 /55D Venetian Mirror *(55A, 55B, 55C, 55E)*

COLOURS AND SIZES

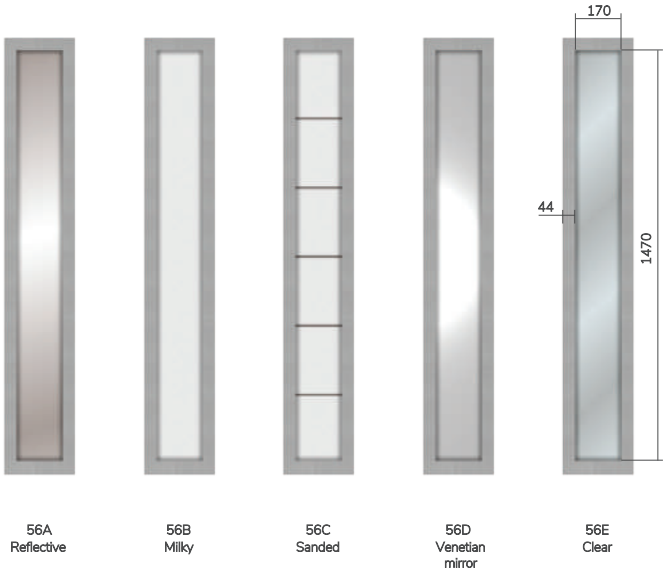
80/90/100	80/90/100	80/90	80/90/100	80/90/100	80/90/100	80/90	80/90/100	80/90	80/90	80/90/100	80/90	80/90/100
ANTHRACITE	**DARK GREY**	**WHITE**	**DARK WALNUT**	**WENGE**	**GOLDEN OAK**	**MAHOGANY**	**WINCHESTER**	**TEXTURED WHITE**	**LIGHT GREY**	**BOG OAK**	**BRAZILIAN WALNUT**	**ANTHRACITE QUARTZ**

GI 60 /56A Reflective *(56B, 56C, 56D, 56E)*

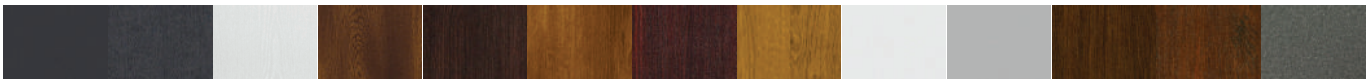
FI 60 /56C Sanded *(56A, 56B, 56D, 56E)*

FI 61 /56A Reflective *(56B, 56C, 56D, 56E)*

GI 61 /56D Venetian Mirror *(56A, 56B, 56C, 56E)*



COLOURS AND SIZES



80/90/100 ANTHRACITE	80/90/100 DARK GREY	80/90 WHITE	80/90/100 DARK WALNUT	80/90/100 WENGE	80/90/100 GOLDEN OAK	80/90 MAHOGANY	80/90/100 WINCHESTER	80/90 TEXTURED WHITE	80/90 LIGHT GREY	80/90/100 BOG OAK	80/90 BRAZILIAN WALNUT	80/90/100 ANTHRACITE QUARTZ

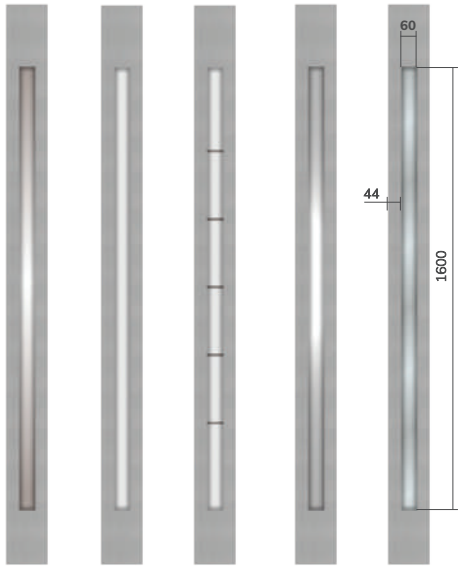
FI 62 /10C Sanded *(10A, 10B, 10D, 10E)*

GI 63 /10B Milky *(10A, 10C, 10D, 10E)*

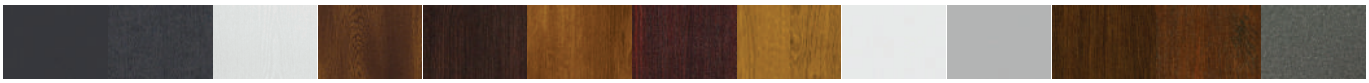
GI 64 /10A Reflective *(10B, 10C, 10D, 10E)*

FI 65 /10C Sanded *(10A, 10B, 10D, 10E)*

GI 66 /10E Clear *(10A, 10B, 10C, 10D)*



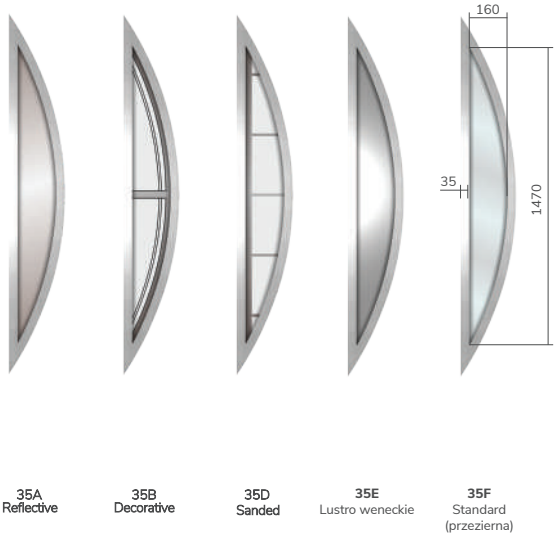
COLOURS AND SIZES



80/90/100 ANTHRACITE	80/90/100 DARK GREY	80/90 WHITE	80/90/100 DARK WALNUT	80/90/100 WENGE	80/90/100 GOLDEN OAK	80/90 MAHOGANY	80/90/100 WINCHESTER	80/90 TEXTURED WHITE	80/90 LIGHT GREY	80/90/100 BOG OAK	80/90 BRAZILIAN WALNUT	80/90/100 ANTHRACITE QUARTZ

I 00

JI 38 /35C Decorative (35A, 35B, 35D)

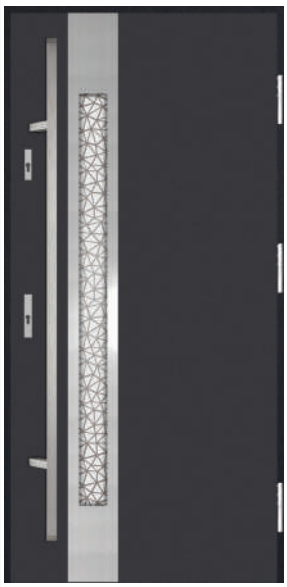


GI 39 /35A Reflective (35B, 35C, 35D)

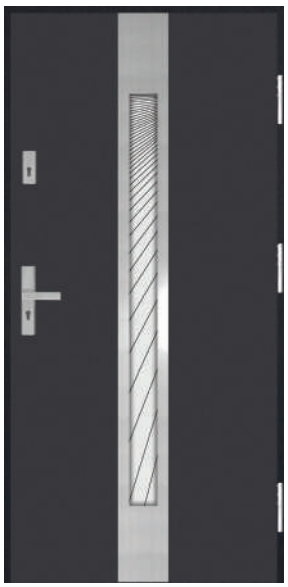
JI 40 /35B Decorative (35A, 35C, 35D)

COLOURS AND SIZES

80/90/100 ANTHRACYTE	80/90 DARK GREY	80/90 WHITE	80/90/100 DARK WALNUT	80/90/100 WENGE	80/90/100 GOLDEN OAK	80/90 MAHOGANY	80/90/100 WINCHESTER	80/90 TEXTURED WHITE	80/90 LIGHT GREY	80/90/100 BOG OAK



GI 01 /3K Printed (3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3J, 3M)



GI 02 /3D Decorative (3A, 3B, 3C, 3E, 3F, 3G, 3H, 3I, 3J, 3K, 3M)

GI 03 /3F Sanded (3A, 3B, 3C, 3D, 3E, 3G, 3H, 3I, 3J, 3K, 3M)

3A Reflective | 3B Milky | 3C Decorative | 3D Decorative | 3E Decorative | 3F Sanded | 3G Sanded | 3H Sanded | 3I Printed | 3J Printed | 3K Printed | 3M Venetian mirror

COLOURS AND SIZES

80/90/100 ANTHRACYTE	80/90 DARK GREY	80/90 WHITE	80/90/100 DARK WALNUT	80/90/100 WENGE	80/90/100 GOLDEN OAK	80/90 MAHOGANY	80/90/100 WINCHESTER	80/90 TEXTURED WHITE	80/90 LIGHT GREY	80/90/100 BOG OAK

AI 01 /3H Sanded (3A, 3B, 3C, 3D, 3E, 3F, 3G, 3I, 3J, 3K, 3M)

AI 04

A 00

GI 05 /3I Printed (3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3J, 3K, 3M)

AI 05 /3G Sanded (3A, 3B, 3C, 3D, 3E, 3F, 3H, 3I, 3J, 3K, 3M)

GI 06 /3J Printed (3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3K, 3M)

COLOURS AND SIZES

80/90/100 ANTHRACYTE	80/90 DARK GREY	80/90 WHITE	80/90/100 DARK WALNUT	80/90/100 WENGE	80/90/100 GOLDEN OAK	80/90 MAHOGANY	80/90/100 WINCHESTER	80/90 TEXTURED WHITE	80/90 LIGHT GREY	80/90/100 BOG OAK

AB 01 /3M Venetian mirror (3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3J, 3K)

GB 01 /3F Sanded (3A, 3B, 3C, 3D, 3E, 3G, 3H, 3I, 3J, 3K)

GB 02 /3E Decorative (3A, 3B, 3C, 3D, 3F, 3G, 3H, 3I, 3J, 3K)

3A Reflective
3B Milk
3C Decorative
3D Decorative
3E Decorative
3F Sanded
3G Sanded
3H Sanded
3I Printed
3J Printed
3K Printed
3M Venetian mirror

COLOURS AND SIZES

80/90/100 **ANTHRACYTE**
80/90 **DARK GREY**
80/90 **WHITE**
80/90/100 **DARK WALNUT**
80/90/100 **WENGE**
80/90/100 **GOLDEN OAK**
80/90 **MAHOGANY**
80/90/100 **WINCHESTER**
80/90 **TEXTURED WHITE**
80/90 **LIGHT GREY**
80/90/100 **BOG OAK**

MI 07 /1C Decorative (1A, 1B, 1D)

MI 08 /6A Reflective

GI 08 /6A Reflective

GI 09 /3M Venetian mirror (3A, 3B, 3L)

AI 09 /3L Printed (3A, 3B, 3M)

AI 10 /3B Milk (3A, 3L, 3M)

COLOURS AND SIZES

80/90/100	80/90	80/90	80/90/100	80/90/100	80/90/100	80/90	80/90/100	80/90	80/90	80/90/100
ANTHRACYTE	DARK GREY	WHITE	DARK WALNUT	WENGE	GOLDEN OAK	MAHOGANY	WINCHESTER	TEXTURED WHITE	LIGHT GREY	BOG OAK

AI 11 /3A Reflective (3B, 3K, 3M)

GI 12 /3K Printed (3A, 3B, 3M)

3B
Milk

3M
Venetian mirror

GI 04

GI 05

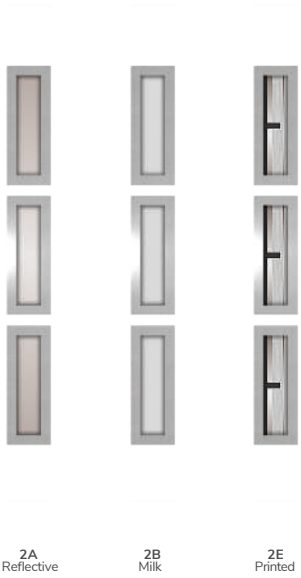
GI 06

COLOURS AND SIZES

80/90/100	80/90	80/90	80/90/100	80/90/100	80/90/100	80/90	80/90/100	80/90	80/90	80/90/100
ANTHRACYTE	DARK GREY	WHITE	DARK WALNUT	WENGE	GOLDEN OAK	MAHOGANY	WINCHESTER	TEXTURED WHITE	LIGHT GREY	BOG OAK

GI 13 /2C Decorative (2A, 2B, 2D, 2E)

AI 13 /2D Decorative (2A, 2B, 2C, 2E)



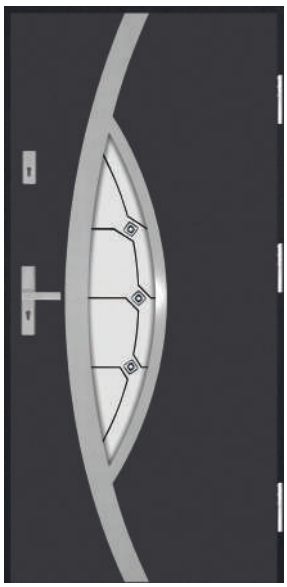
GI 13

GI 14 /3A Reflective (3B, 3I, 3M)

AI 14 /3B Milk (3A, 3I, 3M)

COLOURS AND SIZES

80/90/100 ANTHRACYTE	80/90 DARK GREY	80/90 WHITE	80/90/100 DARK WALNUT	80/90/100 WENGE	80/90/100 GOLDEN OAK	80/90 MAHOGANY	80/90/100 WINCHESTER	80/90 TEXTURED WHITE	80/90 LIGHT GREY	80/90/100 BOG OAK



GI 15 /27D Decorative (27A, 27B, 27C, 27E, 27F, 27G)

FI 15 /27E Sanded (27A, 27B, 27C, 27D, 27F, 27G)

FI 15

27A
Reflective

27B
Decorative

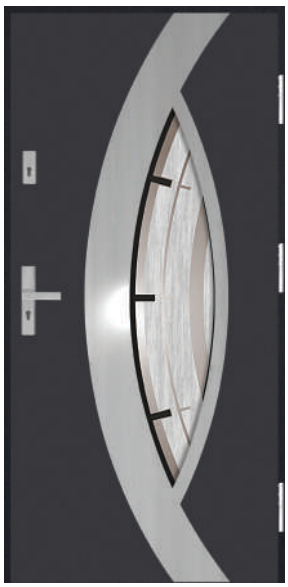
27C
Decorative

27F
Sanded

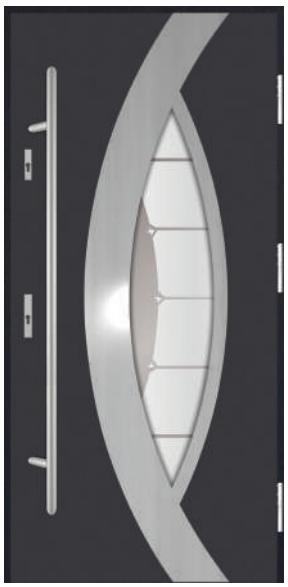
27G
Printed

COLOURS AND SIZES

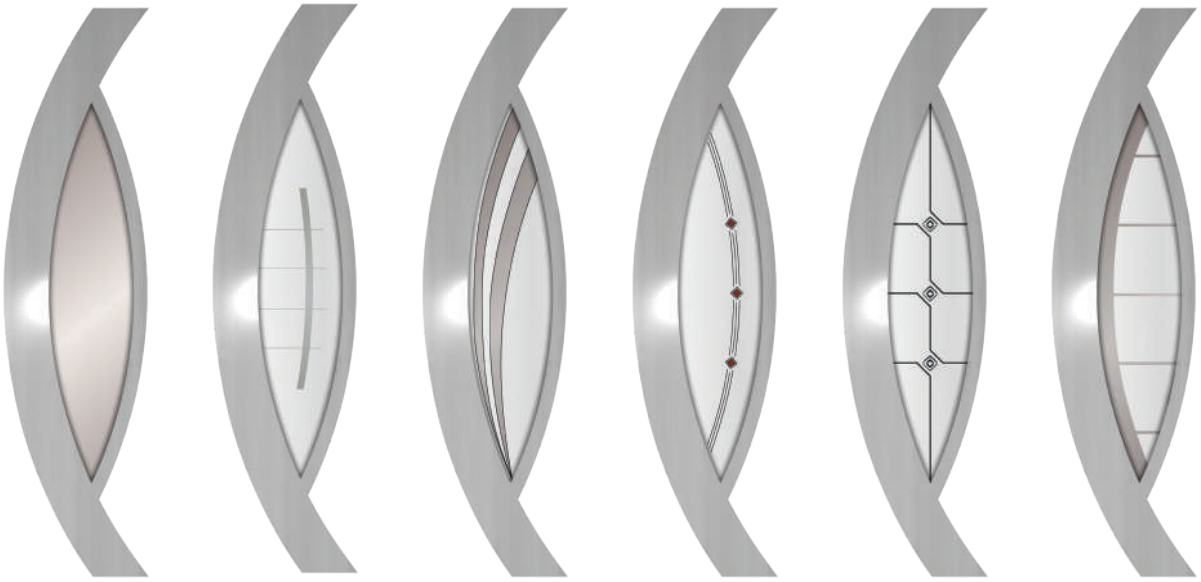
80/90/100	80/90	80/90	80/90/100	80/90/100	80/90/100	80/90	80/90/100	80/90	80/90	80/90/100
ANTHRACYTE	**DARK GREY**	**WHITE**	**DARK WALNUT**	**WENGE**	**GOLDEN OAK**	**MAHOGANY**	**WINCHESTER**	**TEXTURED WHITE**	**LIGHT GREY**	**BOG OAK**



GI 16 /26H Printed (26A, 26B, 26C, 26E, 26F, 26G)



GI 16 /26G Sanded (26A, 26B, 26C, 26E, 26F, 26H)



26A Reflective

26B Decorative

26C Decorative

26D Decorative

26E Decorative

26F Sanded

COLOURS AND SIZES

90/100	90	90	90/100	90/100	90/100	90	90/100	90	90	90/100
ANTHRACYTE	DARK GREY	WHITE	DARK WALNUT	WENGE	GOLDEN OAK	MAHOGANY	WINCHESTER	TEXTURED WHITE	LIGHT GREY	BOG OAK

LS 17 /17C Printed (17A)

KS 17 /17D Printed (17B)

GS 18 /17D Printed (17A,17B, 17C)

17A
Reflective

17B
Reflective

info Door models only available outward opening.

COLOURS AND SIZES

80/90/100	80/90	80/90/100	80/90/100	80/90/100	80/90	80/90/100	80/90	80/90	80/90/100
ANTHRACYTE	DARK GREY	DARK WALNUT	WENGE	GOLDEN OAK	MAHOGANY	WINCHESTER	TEXTURED WHITE	LIGHT GREY	BOG OAK

LS 19 /17C Printed (17A)

KS 19 /17D Printed (17B)

info Door models only available outward opening.

COLOURS AND SIZES

90	90	90	90	90	90	90	90
ANTHRACYTE/ TEXTURED WHITE	DARK WALNUT/ TEXTURED WHITE	WINCHESTER/ TEXTURED WHITE	GOLDEN OAK/ TEXTURED WHITE	TEXTURED WHITE/ ANTHRACYTE	DARK WALNUT/ ANTHRACYTE	WINCHESTER/ ANTHRACYTE	GOLDEN OAK/ ANTHRACYTE

RS 20 /18A Reflective (18B)

GS 20 /18B Printed (18A)

info Door models only available outward opening.

RB 20 /18B Printed (18A)

GB 20 /18B Printed (18A)

18A
Reflective

COLOURS AND SIZES

80/90/100 ANTHRACYTE	80/90 DARK GREY	80/90 WHITE	80/90/100 DARK WALNUT	80/90/100 WENGE	80/90/100 GOLDEN OAK	80/90 MAHOGANY	80/90/100 WINCHESTER	80/90 TEXTURED WHITE	80/90 LIGHT GREY	80/90/100 BOG OAK

BI 21

BI 21 /21C Printed (21A, 21B)

GI 21 /21B Milk (21A, 21C)

21A
Reflective

BI 22 /29A Reflective (29B, 29C)

BI 23 /29C Printed (29A, 29B)

GI 23 /29B Milk (29A, 29C)

29A
Reflective

29B
Milk

29C
Printed

COLOURS AND SIZES

80/90/100	80/90	80/90	80/90/100	80/90/100	80/90/100	80/90	80/90/100	80/90	80/90	80/90/100
ANTHRACYTE	DARK GREY	WHITE	DARK WALNUT	WENGE	GOLDEN OAK	MAHOGANY	WINCHESTER	TEXTURED WHITE	LIGHT GREY	BOG OAK

BI 24

GI 24

B 00

GI 25 /29A Reflective (29B)

BI 25 /29B Milk (29A)

NI 26 /31B Printed (31A)

COLOURS AND SIZES

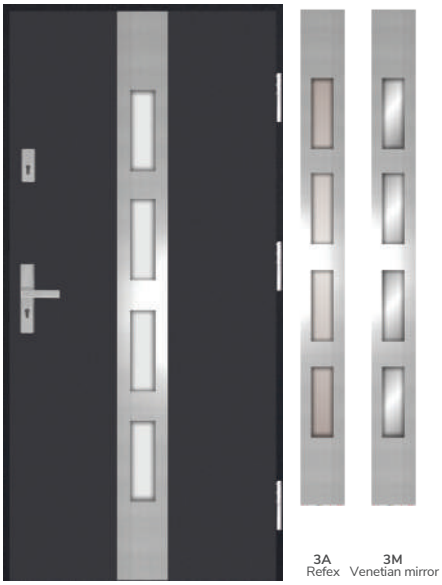
80/90/100	80/90	80/90	80/90/100	80/90/100	80/90/100	80/90	80/90/100	80/90	80/90	80/90/100
ANTHRACYTE	DARK GREY	WHITE	DARK WALNUT	WENGE	GOLDEN OAK	MAHOGANY	WINCHESTER	TEXTURED WHITE	LIGHT GREY	BOG OAK

HI 27/1A Reflective (1B)

GI 27 /1B Milk (1A)

GI 28 /1B Milk (1A)

GI 29 /3M Venetian mirror (3A, 3B)



GI 30 /3B Milk (3A, 3M)

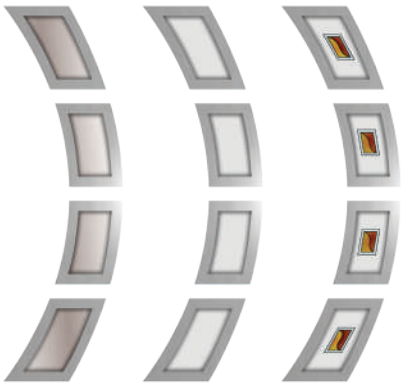
GI 31 /3A Reflective (3B, 3M)

COLOURS AND SIZES

80/90/100	80/90	80/90	80/90/100	80/90/100	80/90/100	80/90	80/90/100	80/90	80/90	80/90/100
ANTHRACYTE	DARK GREY	WHITE	DARK WALNUT	WENGE	GOLDEN OAK	MAHOGANY	WINCHESTER	TEXTURED WHITE	LIGHT GREY	BOG OAK

GI 32 /20E Decorative (20A, 20B, 20C, 20D)

MI 32 /20D Decorative (20A, 20B, 20C, 20E)



20A Reflective

20B Milk

20C Decorative

GI 33 /2B Milk (2A)

2A Reflective

GI 33

GI 32

COLOURS AND SIZES

80/90/100 ANTHRACYTE	80/90 DARK GREY	80/90 WHITE	80/90/100 DARK WALNUT	80/90/100 WENGE	80/90/100 GOLDEN OAK	80/90 MAHOGANY	80/90/100 WINCHESTER	80/90 TEXTURED WHITE	80/90 LIGHT GREY	80/90/100 BOG OAK

ZI 34 /32B Decorative (32A, 32C)

32A
Reflective

32C
Printed

M 00

28B
Printed

MI 35 /28A Decorative (28B)

24A
Reflective

24B
Decorative

MI 36 /24C Printed (24A, 24B)

25B
Printed

MI 37 /25A Reflective (25B)

COLOURS AND SIZES

80/90/100	80/90	80/90	80/90/100	80/90/100	80/90/100	80/90	80/90/100	80/90	80/90	80/90/100
ANTHRACYTE	DARK GREY	WHITE	DARK WALNUT	WENGE	GOLDEN OAK	MAHOGANY	WINCHESTER	TEXTURED WHITE	LIGHT GREY	BOG OAK

D 00

C 00

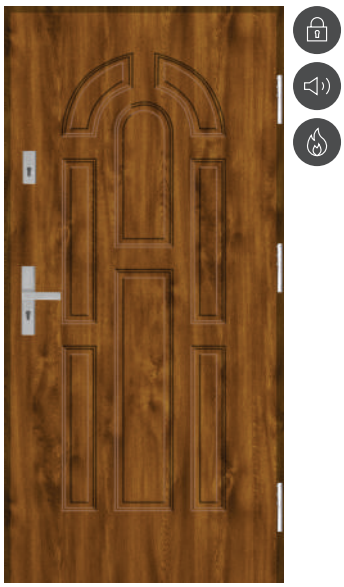
G 00

GI 41

GI 42

COLOURS AND SIZES

80/90/100	80/90	80/90	80/90/100	80/90/100	80/90/100	80/90	80/90/100	80/90	80/90	80/90/100
ANTHRACYTE	DARK GREY	WHITE	DARK WALNUT	WENGE	GOLDEN OAK	MAHOGANY	WINCHESTER	TEXTURED WHITE	LIGHT GREY	BOG OAK



P 00

W 00

WK 43 /42E Stained glass
(42A, 42B, 42C, 42D)

42A
Reflective

42B
Decorative

42C
Decorative

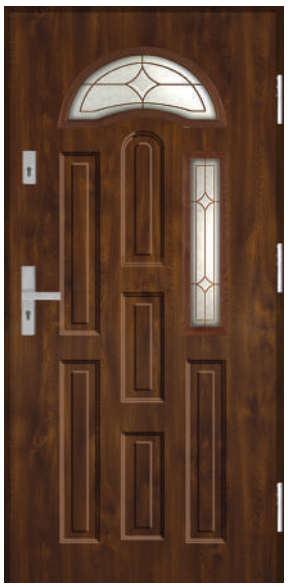
42D
Stained glass

COLOURS AND SIZES

80/90 WHITE | 80/90 DARK WALNUT | 80/90 WENGE | 80/90 GOLDEN OAK | 80/90 MAHOGANY | 80/90 BRAZIL NUT

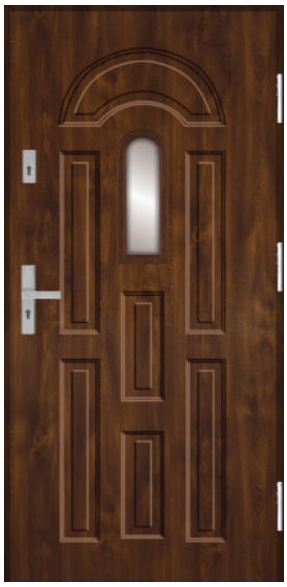
40A
Reflective

WK 45 /40B Stained glass (40A)



40A-7A
Reflective

WK 46 /40B-7B Stained glass (40A-7A)



41B
Stained glass

41C
Stained glass

Glazing 41C is not available in doors type 72.

WK 44 /41A Reflective (41B, 41C)

40B-2X7B
Stained glass

WK 47 /40A-2X7A Reflective (40B-2x7B)

COLOURS AND SIZES

80/90	80/90	80/90	80/90	80/90	80/90
WHITE	DARK WALNUT	WENGE	GOLDEN OAK	MAHOGANY	BRAZIL NUT

47A
Decorative

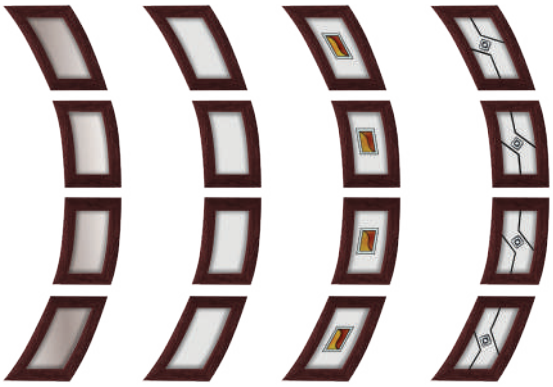
47B
Decorative

47C
Decorative

47E
Stained glass

EK 48 /47D Stained glass (47A, 47B, 47C, 47E)

E 00



20A
Reflective

20B
Milk

20C
Decorative

20E
Decorative

MK 32 /20D Decorative (20A, 20B, 20C, 20D)

MK 37 /25A Reflective

COLOURS AND SIZES

80/90
WHITE

80/90/100
DARK WALNUT

80/90/100
WENGE

80/90/100
GOLDEN OAK

80/90
MAHOGANY

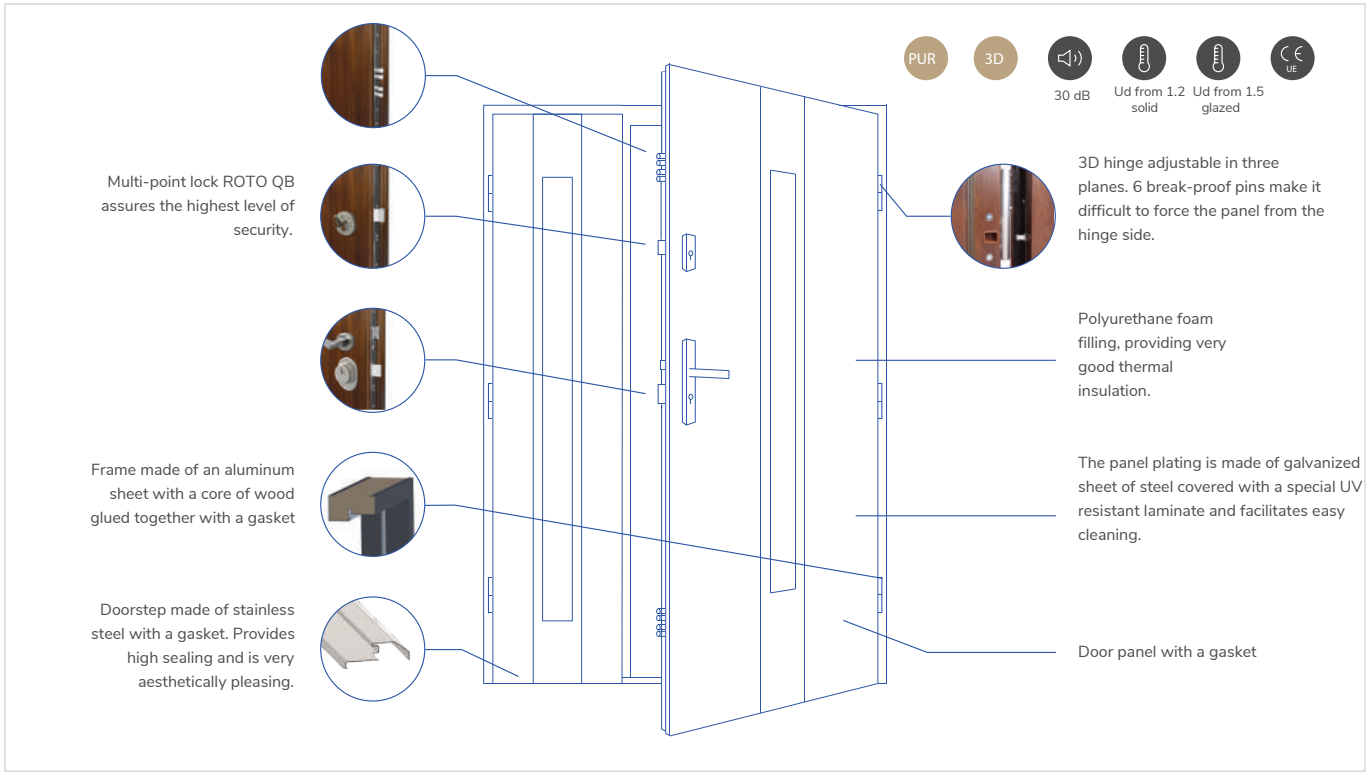
80/90/100
WINCHESTER

Double-Panel Doors

55DS DOUBLE-PANEL

NEW CONSTRUCTION OF DOUBLE-PANEL DOORS

When choosing a double-panel door, it is important to note that their design provides them with sufficient stability and tightness. Double-panel doors, for example, during large winds tend to get unsealed. When in use, the active panel drops relative to the passive panel. That's why MARTOM double door frames are made wih ALU-WOOD frames, and both wings are reinforced with special wooden frames and filled with PUR foam for very high stiffness. The whole is complemented by a ROTO QB multi-point lock, which has as many as 13 locking points and guarantees tightness and long-lasting door function.

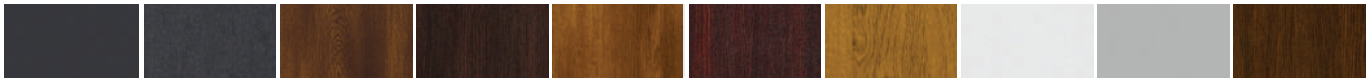


DS M 00

DS A 00

DS G 00

COLOURS AND SIZES



110/120/130/140 ANTHRACYTE	110/120/130/140 DARK GREY	110/120/130/140 DARK WALNUT	110/120/130/140 WENGE	110/120/130/140 GOLDEN OAK	110/120/130/140 MAHOGANY	110/120/130/140 WINCHESTER	110/120/130/140 TEXTURED WHITE	110/120/130/140 LIGHT GREY	110/120/130/140 BOG OAK

DS I 00

DS1 JI 38 /35D Sanded (35A, 35B, 35C)

35A Reflective | 35B Decorative | 35C Decorative

DS1 JI 40 /35A Reflective (35B, 35C, 35D)

35B Decorative | 35C Decorative | 35D Sanded

2A Reflective | 2B Milk

DS1 AI 13 /2E Printed (2A, 2B) **DS2 AI 13 /2E Printed** (2A, 2B)

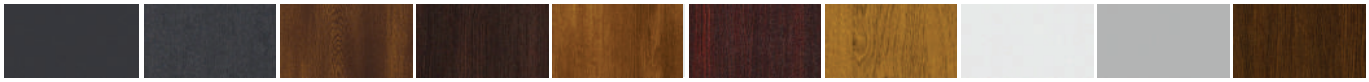
3A Reflective | 3L Printed | 3M Venetian mirror

DS1 AI 10 /3B Milk (3A, 3L, 3M) **DS2 AI 10 /3B Milk** (3A, 3L, 3M)

3B Milk | 3L Printed | 3M Venetian mirror

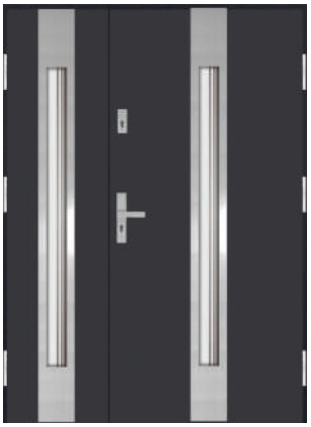
DS1 AI 09 /3A Reflective (3B, 3L, 3M) **DS2 AI 09 /3A Reflective** (3B, 3L, 3M)

COLOURS AND SIZES



110/120/130/140	110/120/130/140	110/120/130/140	110/120/130/140	110/120/130/140	110/120/130/140	110/120/130/140	110/120/130/140	110/120/130/140	110/120/130/140
ANTHRACYTE	DARK GREY	DARK WALNUT	WENGE	GOLDEN OAK	MAHOGANY	WINCHESTER	TEXTURED WHITE	LIGHT GREY	BOG OAK

DS1 AI 01 /3H Sanded (3A, 3B, 3C, 3D, 3E, 3F, 3G, 3I, 3J, 3K, 3M)
DS2 AI 01 /3H Sanded (3A, 3B, 3C, 3D, 3E, 3F, 3G, 3I, 3J, 3K, 3M)

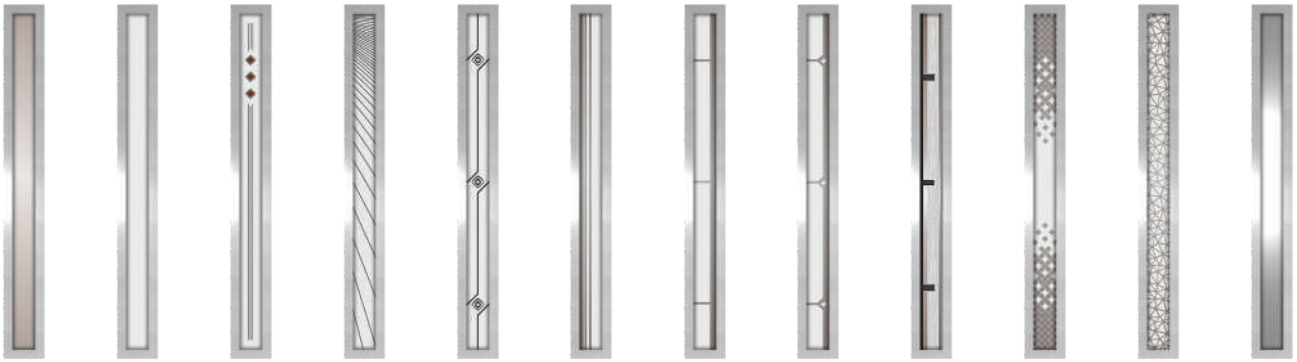


DS1 GI 02 /3F Sanded (3A, 3B, 3C, 3D, 3E, 3G, 3H, 3I, 3J, 3K, 3M)
DS2 GI 02 /3F Sanded (3A, 3B, 3C, 3D, 3E, 3G, 3H, 3I, 3J, 3K, 3M)

DS1 AI 05 /3M Venetian mirror (3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3J, 3K)
DS2 AI 05 /3M Venetian mirror (3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3J, 3K)

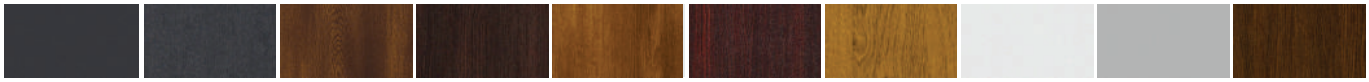
DS1 GB 02 /3E Decorative (3A, 3B, 3C, 3D, 3F, 3G, 3H, 3I, 3J, 3K, 3M)
DS2 GB 02 /3E Decorative (3A, 3B, 3C, 3D, 3F, 3G, 3H, 3I, 3J, 3K, 3M)

DS1 AB 01 /3K Printed (3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3J, 3M)
DS2 AB 01 /3K Printed (3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3J, 3M)



3A Reflective
3B Milk
3C Decorative
3D Decorative
3E Decorative
3F Sanded
3G Sanded
3H Sanded
3I Printed
3J Printed
3K Printed
3M Venetian mirror

COLOURS AND SIZES



110/120/130/140 **ANTHRACYTE**
110/120/130/140 **DARK GREY**
110/120/130/140 **DARK WALNUT**
110/120/130/140 **WENGE**
110/120/130/140 **GOLDEN OAK**
110/120/130/140 **MAHOGANY**
110/120/130/140 **WINCHESTER**
110/120/130/140 **TEXTURED WHITE**
110/120/130/140 **LIGHT GREY**
110/120/130/140 **BOG OAK**

Model unavailable in sizes 110 and 130.

26B-3B
Decorative

26A-3A
Reflective

DS1 GI 16 /26H Printed (26A, 26B)
DS2 GI 16 /26H-3I Printed (26A-3A, 26B-2B)

27G-3I
Printed

DS1 FI 15 /27A Reflective (27G)
DS2 FI 15 /27A-3A Reflective (27G-3I)

21A-2A
Reflective

21B-2B
Milk

DS1 BI 21 /21C Printed (21A, 21B)
DS2 BI 21 /21C-2E Printed (21A-2A, 21B-2B)

1A
Reflective

1B
Milk

1D
Printed

DS1 MI 07 /1C Decorative (1A, 1B, 1D) **DS2 MI 07 /1C Decorative** (1A, 1B, 1D)

DS1 MK 32 /20C Decorative (20A)

DS1 MI 32 /20C Decorative (20A)

20A
Reflective

28A
Decorative

DS1 MI 35 /28B Printed (28A) **DS2 MI 35 /28B Printed** (28A)

Model available in the following colours: dark walnut, wenge and golden oak.

COLOURS AND SIZES

110/120/130/140	110/120/130/140	110/120/130/140	110/120/130/140	110/120/130/140	110/120/130/140	110/120/130/140	110/120/130/140	110/120/130/140	110/120/130/140
ANTHRACYTE	DARK GREY	DARK WALNUT	WENGE	GOLDEN OAK	MAHOGANY	WINCHESTER	TEXTURED WHITE	LIGHT GREY	BOG OAK

Accessories

STANDARD EYE HOLE

CYCLOP EYE HOLE

*eyehole designed for fire-proof doors

AXA DIGITAL EYEHOLE

ELECTROMAGNETIC LOCK WITH DAY / NIGHT FUNCTION

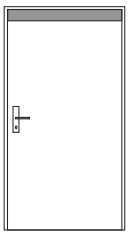
electromagnetic lock 18-24V AC/DC with a day/ night function.
Used for door models 90, 72, 55, DS.

DRIP CAP

Possibility of purchasing a stainless steel drip cap for inward opening doors. The drip can be mounted in the case of doors where there is no application or INOX frame that reaches to the bottom of the door.

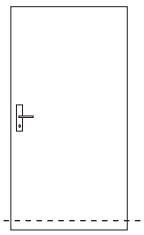
AUTOMATIC DOOR CLOSER GEZE TS 2000

Self-closing shoulder attachment.
It allows you to install the door closer from the inside (for doors that open to the outside).



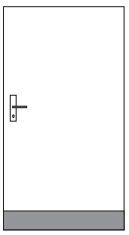
REINFORCEMENT FOR AUTO DOOR CLOSER

If you purchase the auto-closer for doors 55 OPTIMAL, the reinforcement is necessary.



SHORTENING OF THE DOOR

It's possible to shorten any chosen door.
Attention:
In the case of a door with a multi-point lock, the handle needs to be 102 cm from the bottom of the door panel.



BUMPER STRIP

150mm single-sided bumper strip, made of stainless steel. The strip is always placed on the side of the rebate (wider side of the panel).
The strip can be mounted in the case of doors where there is no application or INOX frame that reaches to the bottom of the door.

3D HINGE COVERS (STAINLESS STEEL AND BLACK)

SPRING HINGE

Spring hinge plays the role of an automatic door closer.
It's available in the standard build of fire-proof doors.

EXTENSION FOR THE ALU-WOOD FRAME

When choosing an ALU-WOOD jamb in door that opens to the outside, it is recommended to use the extension to enlarge the door frame. 2 widths available.

POWER SUPPLY

In the case of selecting a handle with a push button or an electromechanical hitch connected to the mains, it is necessary to purchase the power supply.

Single-sided, Slanted Handrails

170 cm 150 cm 100 cm

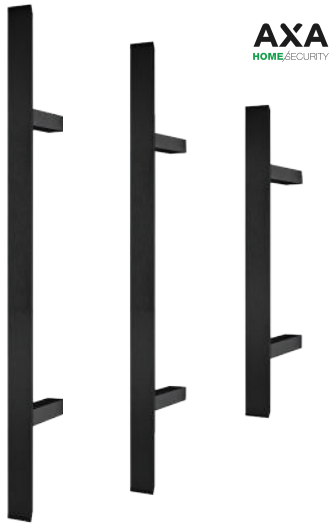
RECTANGULAR HANDRAIL (INOX)

170 cm 150 cm 100 cm

ROUNDED HANDRAIL (INOX)

HANDLE-COVERS GAJA SOLO (INOX)

HANDLE COVERS GAJA SOLO (BLACK)



170 cm 150 cm 100 cm

RECTANGULAR HANDRAIL (BLACK)

170 cm 150 cm 100 cm

ROUNDED HANDRAIL (BLACK)

info

Handrails only available for 55 OPTIMAL with ROTO QB, 55 NORDIC, 72 ARKTIC, 90 PASSIVE doors as well as 55DS doors.

150 cm long handrails are available with a button option. When choosing such an option it is necessary to also purchase a power source and an electromagnetic lock.

Handles

HANDLE NIAGARA

available colours:

inox | titanium | aged gold

HANDLE HAGA

available colours:

inox | black

HANDLE-RAIL NIAGARA – AXA

available colours:

inox | titanium | aged gold

HANDLE SPACE

available colours:

nickel-satin | platinum

HANDLE MALTA

Burglar resitant with anti-drilling protection

Handle dedicated for doors type RC2, RC3

HANDLE STRONG

Burglar resistant with anti-drilling protection

STRONG 1

STRONG 2

Handle dedicated for doors type RC2, RC3

HANDLE KASTOR

available colours:

nickel-satin | platinum

HANDLE ROYAL

Burglar resistant with anti-drilling protection

available colours:

inox

NEW!

AVAILABILITY OF HANDLES

	90 PASSIVE	72 ARKTIC	72 ARKTIC with ROTO QB	55 OPTIMAL, NORDIC	55 OPTIMAL, NORDIC with ROTO QB	55ps
NIAGARA handle	*	*	*	*	*	*
HAGA inox handle	*	*	*	*	*	*
HAGA black handle	*	*	*	*	*	*
NIAGARA handle-rail	*	*	*	*	*	*
MALTA handle (for doors with RC2, RC3)		*	*	*	*	*
STRONG handle (for doors with RC2, RC3)				*	*	*
SPACE handle				*		
KASTOR handle				*		
ROYAL handle	*	*	*	*	*	

ANTHRACYTE
orange peel texture

DARK GREY
wood texture

WHITE
wood texture

TEXTURED WHITE
orange peel texture

LIGHT GREY
wood texture

WENGE
wood texture

BOG OAK
wood texture

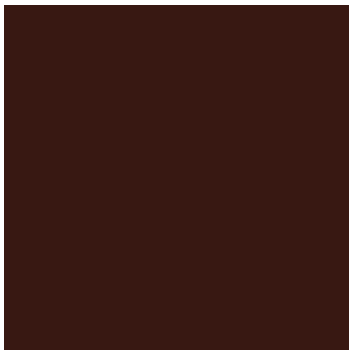
BRAZIL NUT
wood texture

DARK WALNUT
wood texture

GOLDEN OAK
wood texture

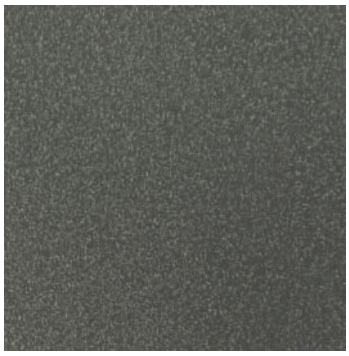
MAHOGANY
wood texture

WINCHESTER
wood texture



BROWN VARNISH
smooth texture

WHITE VARNISH
smooth texture



ANTHRACITE QUARTZ
orange peel texture

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Modern Build Construction

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