

döpfner security. RC2 front doors



different, of course.



VERSION MP



DÖPFNER

WOOD  ALUMINUM EXPERTISE
WINDOWS . FRONT DOORS . FACADES

döpfner security. RC2 front doors

IN AN UNCERTAIN WORLD PERSONAL SAFETY IS BECOMING INCREASINGLY IMPORTANT.

On average, an attempt is made to force entry into a home every three minutes in Germany. It is therefore obvious that the need for security is increasing.

With over 167,000 burglaries a year (as of 2015), the need for optimized security on balcony doors and windows is also understandable, as around 80 % of burglars choose this route.

Fortunately, in around 40% of cases it remains an attempted break-in, as homeowners are increasingly opting for burglar-resistant windows, balcony doors and front doors.

DÖPFNER building elements can be individually adapted to your security requirements. We will be happy to advise you!

OUR HOME IS OUR "CASTLE" ...

At least that's how it should ideally be! Everyone wants a safe, cozy and comfortable home for themselves and the whole family. But unfortunately, not everyone respects our privacy. The number of home burglaries is rising continuously.

This brochure shows you the possibilities for more security around your home, especially with front doors from DÖPFNER.

BIRTHDAY



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THE CRIMINAL ACCESS ROUTES TO YOUR PROPERTY ...

... are manifold. But the police statistics paint a clear picture: most burglaries in private houses and apartments occur via balcony and patio doors. This is followed by windows and front doors, and only at the very end by basement windows.

Prevention is always better than aftercare!

Out of around 167,000 burglaries in 2015,...

... THROUGH A CELLAR WINDOW

... VIA THE FRONT DOOR

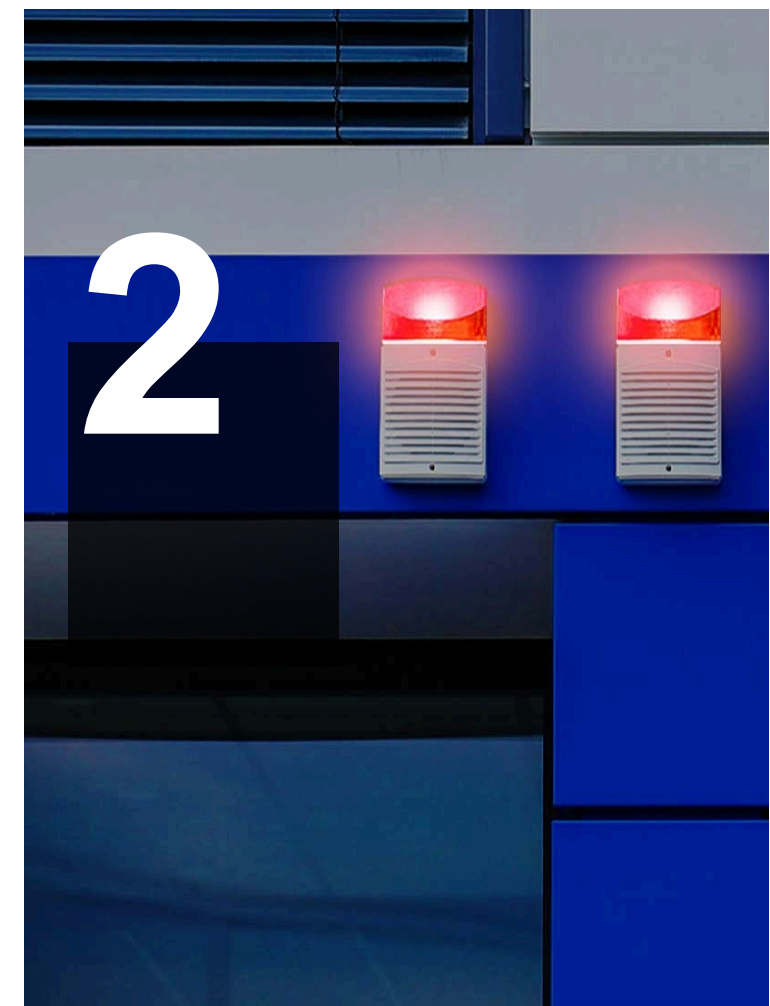


THE POLICE RECOMMEND ...

... OPTIMIZE MECHANICAL PROTECTION FIRST!
ONLY THEN ELECTRONIC UPGRADE!

Mechanical barriers create real resistance, which costs burglars a lot of time and effort, causes noise and ultimately leads to failure. If there is only an alarm system, fast thieves may still be able to reach their target. Some break-ins only take seconds. Ideally, an additional burglar alarm system alerts the security forces before the burglar has overcome the mechanical obstacles.

So please remember the guiding principle: Electronics are of little use without good mechanics!

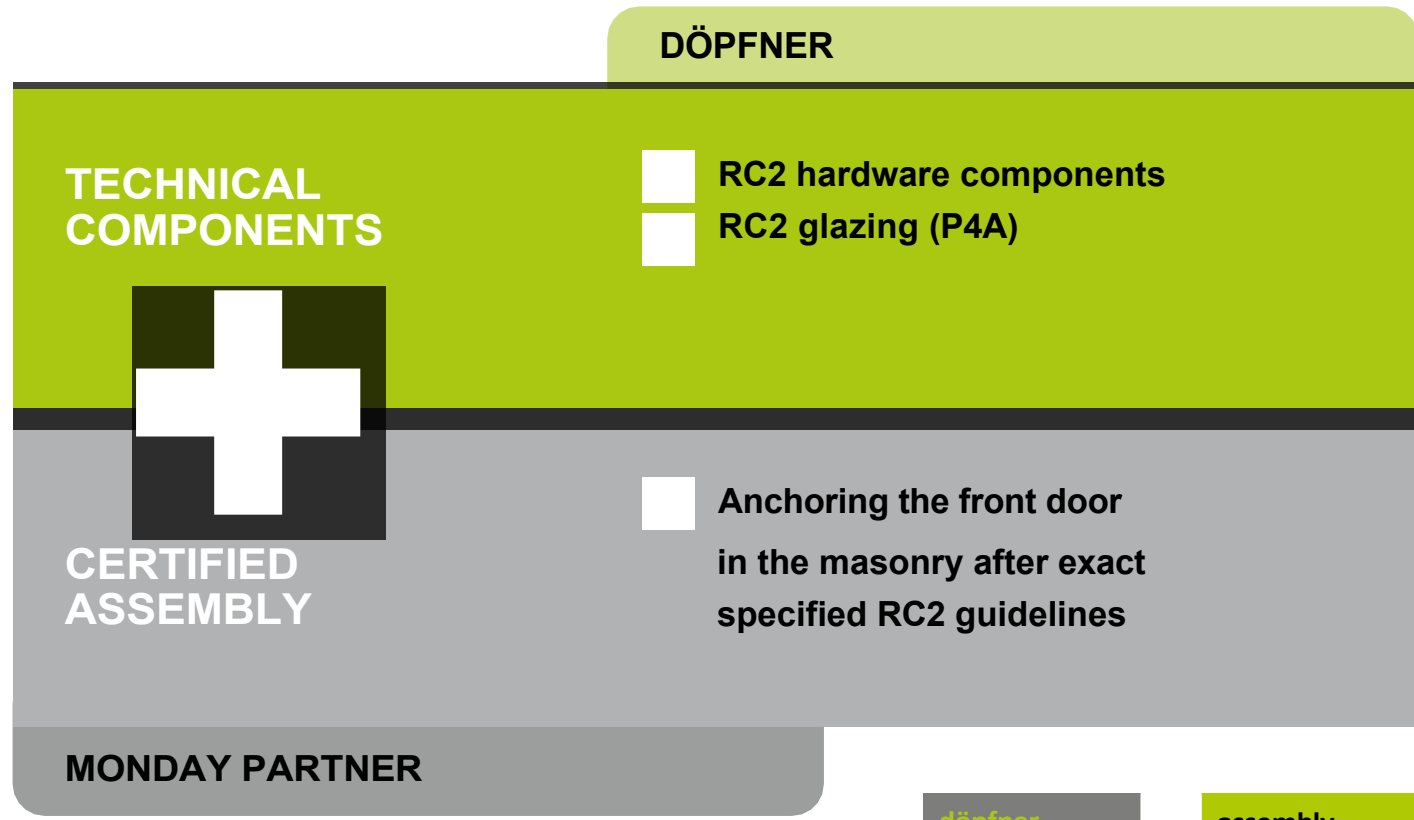


... ABOUT THE WINDOWS

THE QUICK AND EASY WAY FOR OPTIMUM SECURITY IN YOUR HOME. DÖPFNER FRONT DOORS WITH RC2 SECURITY!

DÖPFNER entrance door elements with security level RC2 (resistance class 2) are the solution for optimized security at a truly affordable price, both for new construction projects and for renovations.

Even the basic version of DÖPFNER entrance doors is very sturdy and durable. However, the RC2 standard provides even greater burglar resistance thanks to a number of optimizations - and not just in theory, but tested and certified in practice.



DÖPFNER RC2

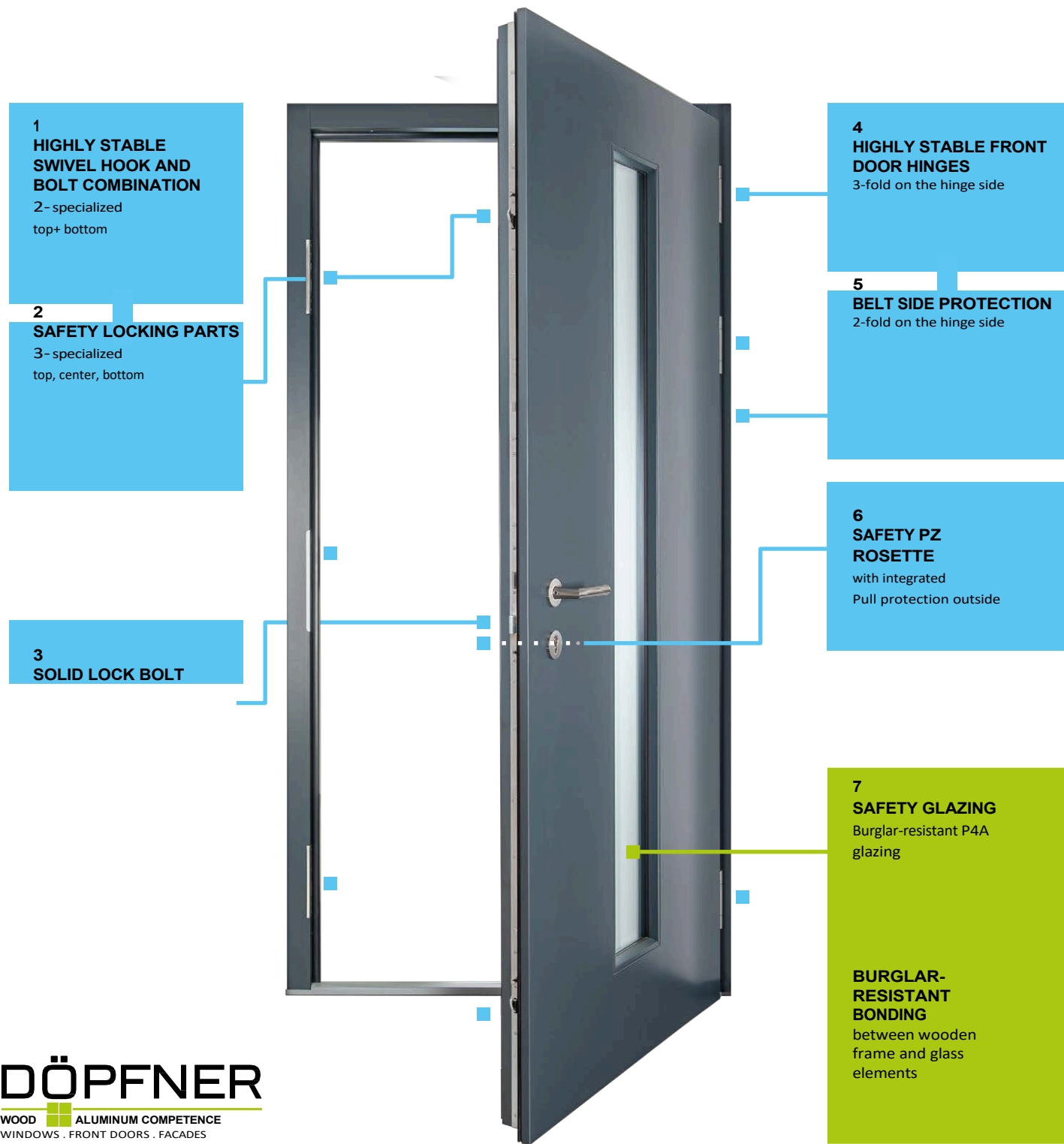
COMPONENTS IN DETAIL



RC2 SECURITY PACKAGE FRONT DOORS. THESE

ARE THE INDIVIDUAL COMPONENTS.

A chain is only as strong as its weakest link. This also applies to security entrance doors. All security-relevant components must be optimally coordinated with each other - and RC2 (resistance class 2) front doors must prove in a rigorous test that they meet all requirements.



RC2 STANDARD PACKAGE FITTING



Highly stable swivel hook-bolt combination
2- compartment at the top and bottom of the lock side

Highly stable Security strikers
3- compartment at the top, center and bottom of the lock side

Whisper latch and solid lock bolt positioned in the middle of the lock side



Highly stable front door hinges
Placed 2-fold at the top and 1-fold at the bottom on the hinge side

Tape side locking
Positioned 2-fold at the top and bottom of the hinge side

Massive Security PZ rosette with integrated pull protection on the outside

NEW: RC 2 SAFETY INSULATING GLAZING

P4A LIGHT BURGLAR-RESISTANT



LIGHT IN WEIGHT. STRONG IN SAFETY!

- Can be used for security windows in accordance with resistance class RC-2
- **Up to 10 kg/m² less glass weight** compared to standard burglar-resistant glazing
- **Up to 25% lighter than a comparable glass structure with standard 10 mm P4A glazing.**
- More daylight creates bright and friendly living spaces
- The stress on the frame profile and fittings is greatly reduced due to the lower weight
- Easier handling during glass installation and window installation
- Integrated sound insulation thanks to the laminated safety glass at no extra cost

RC 2 SAFETY INSULATING GLAZING P4A LIGHT BURGLAR-RESISTANT

AVAILABLE IN THREE VARIANTS



VARIANT 1

Double **glazing** with burglar-resistant glazing CLIMAPLUS STADIP PROTECT **P4A Light** as outer pane or inner pane



VARIANT 2

Triple **glazing** with burglar-resistant glazing CLIMAPLUS STADIP PROTECT **P4A Light** as outer pane or inner pane



VARIANT 3

Triple **glazing** with burglar-resistant glazing CLIMAPLUS STADIP PROTECT **P4A Light** in the middle

Technical data

Glazing	U _g -value in W/m ² K	TL value in %	g-value in %	Weight in kg/m ²
Double insulating glass				
STADIP PROTECT P4A Light variant 1	1,1	81 %	60 %	20
Triple insulating glass				
STADIP PROTECT P4A Light variant 2	0,6	73 %	50 %	30
STADIP PROTECT P4A Light variant 3	0,6	73 %	53 %	30

THE RC2 SECURITY PACKAGE FRONT DOORS.

BASIC REQUIREMENTS AND ALL RC2 COMPONENTS TESTED

Security level **RC 2 (resistance class 2)** is generally **only** available for **inward-opening front doors!**



Size limitation:

- Sash width from 920 mm - 1214 mm Sash
- height from 1777 mm - 2345 mm



Wood species:

- Pine
- European larch
- Oak
- Please note: Spruce NOT PERMITTED for RC 2 elements

Glass 2-fold or 3-fold

- CP Safe P4A light
- CP Safe P4A
- Standard fillings not possible



Lock systems| Tested variants

- Type AS 2600| Standard lock
- Type AS 2608| Security lock with 5-point locking system
- Type AS 3600| Mechanical automatic lock

Ribbon

- SIMONSWERK BAKA Protect 4010 3D FD
- TECTUS TE 640



TECTUS TE 640

BAKA Protect 4010

Hinge side safety device

- KfV 8042 adjustable (2 pieces)



Threshold

A threshold must be used for RC 2 front doors!

for example:

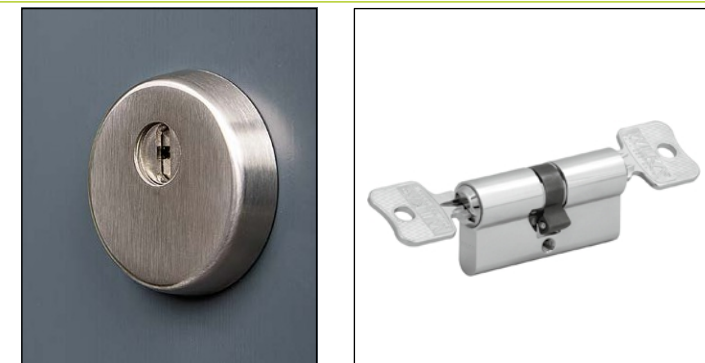
- Eifel 70 TB



Eifel 70 TB

Profile cylinder

- Rosette with core pull protection or security profile cylinder (RC 2-certified)



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Protective fitting



Long signs



Light cut-outs for Rohling front door construction

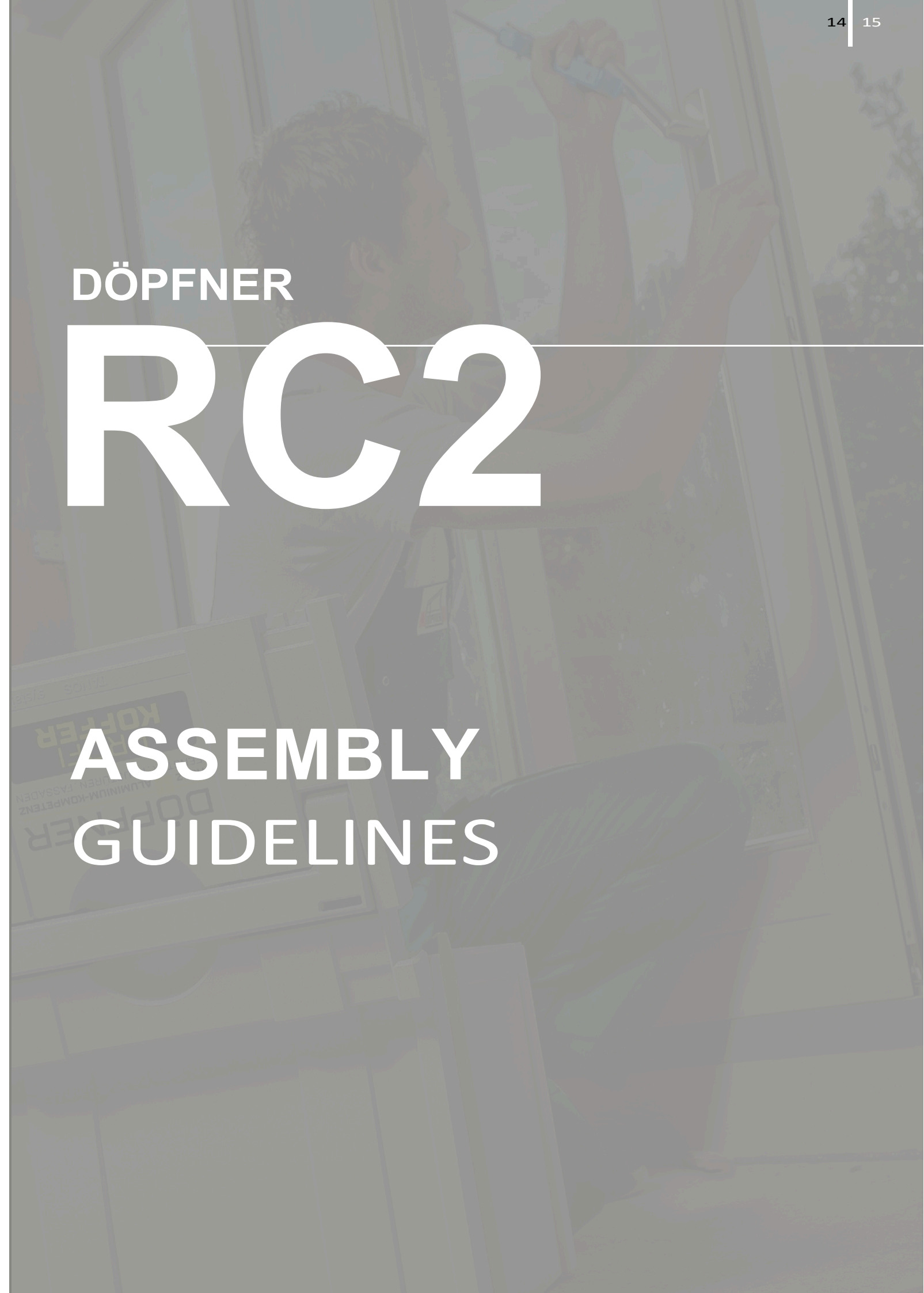


Light cut-outs for frieze front door construction



DÖPFNER RC2

ASSEMBLY GUIDELINES



ASSEMBLY INSTRUCTIONS RC2

BURGLAR-RESISTANT ELEMENTS ARE ONLY AS GOOD AS THEIR INSTALLATION.

The component must always be installed in accordance with the state of the art. The general specifications of the RAL quality association according to the "Installation guidelines" apply here. The frame must be installed mechanically (screwed) to the masonry. A connection to the masonry only via bonding or foaming is not permitted.

Basic comments on RC 2 installation

The burglary protection of the tested and approved burglar-resistant house and apartment doors and fixed glazing - including any linked combinations - can only be guaranteed if the installation of the elements is also carried out carefully and professionally.

In particular, the correct use of fasteners and fastening elements, matched to the adjacent wall condition (masonry), is important.

According to the burglary standard DIN EN 1627-1630, the manufacturer must include installation instructions with the production and installation of burglar-resistant doors.

The doors must be installed plumb and level. They must be fixed mechanically. The "Guidelines for installation" of the RAL quality associations for windows and front doors must be observed.



Installation with metal sleeve dowels (10 mm):

The penetration depth of the anchors into the building structure must be 50-60 mm. The distance between the fixing screws and the edge of the wall must be observed and maintained in accordance with the screw manufacturer's specifications.



Mounting with spacer screws:

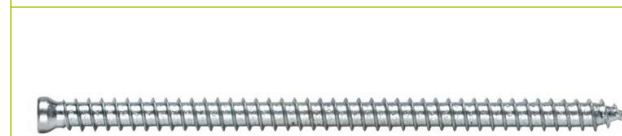
Mounting can be carried out with spacer screws (front 7mm, thread 11.5mm) in connection with a standard nylon plug, 10 mm. The penetration depth of the dowel into the building structure must be 50-60 mm. The distance between the fixing screws and the wall edge must be observed and adhered to in accordance with the screw manufacturer's specifications.



Mounting with frame screws:

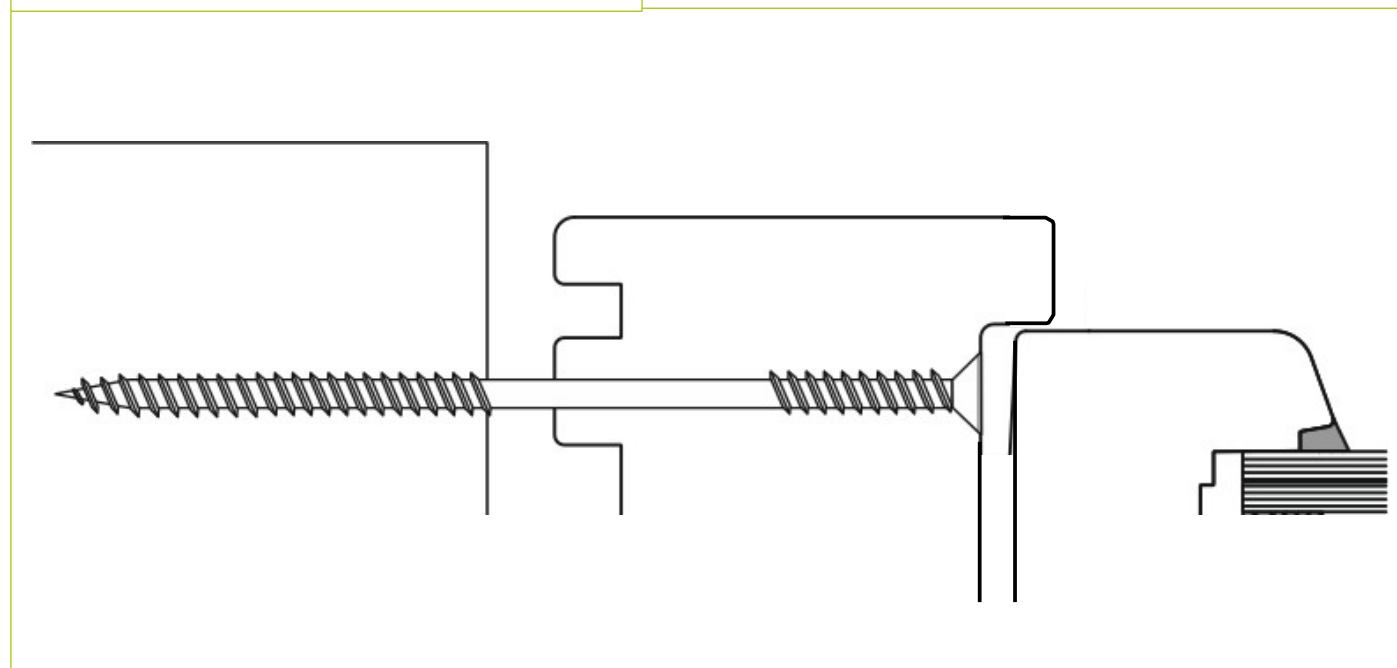
Mounting can be carried out with frame screws 7.5 mm (e.g. Förch or SFS) (edge distance to the masonry as specified by the screw manufacturer).

The penetration depth of the screws into the building structure must be 50 - 60 mm.



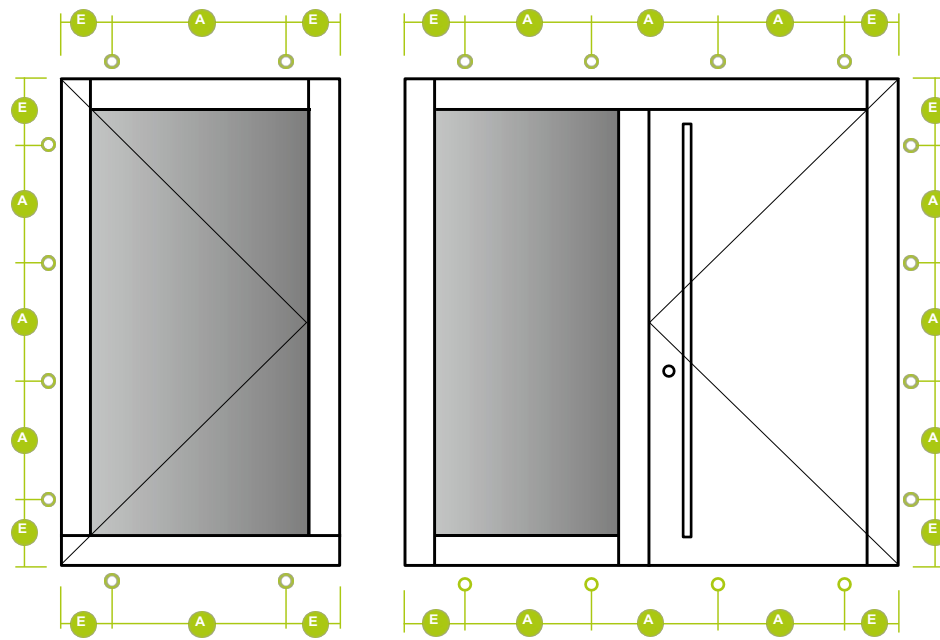
Installation with self-tapping spacer screws

Self-tapping spacer screws with a diameter of 7.5 mm can be used for installation in concrete (e.g. screw 7.5 x 152 / 182 mm Würth Amo III or equivalent). The required screw length is calculated and the required drill diameter is determined in accordance with the manufacturer's specifications.



A pressure-resistant backing of the fastening and locking points is required, not required if the distance between the fixing and locking points does not exceed 100 mm. If the distance is greater than 100 mm, additional pressure-resistant backing must be provided in the area of the locking point between the frame and the masonry; for example, with a block made of hardwood, hard plastic or something similar.

Drilling distances



Drilling distance
between two drill holes

A = max. 600 mm

Drilling distance
from the corners

E = max. 150 mm

Building connection

The distance (A) between the fixing points on the masonry may be max. 600 mm, the corner distance (E) max. 150 mm. Also applies analogously to the combination with fixed glazed sections and double-leaf units with mullions.

After inserting the dowels, the cavity between the building structure and the frame must be backfilled with a hardwood block in the area of the burglar-resistant locking points, hinges and fixing points. Structural measures must be taken to ensure that these spacer blocks are fixed at the appropriate points. This pressure-resistant backing should prevent deformation of the frame in the direction of the building structure in the event of attempted break-ins with lever tools.

■ The distance between the building structure and the frame must not exceed 15 mm all round.

■ A circumferential rebate clearance of 4 mm +/- 1 mm must be maintained between the sash and frame. The rebate clearance between the sash and threshold should be 5 mm +/- 1 mm. are complied with.

■ The burglar-resistant glass connection can be found in the test reports.

No guarantee is given for the compatibility of the adhesives used with the edge bond of the panes. If you have any questions, please contact the adhesive manufacturer.

■ The sash must be blocked in accordance with the blocking guidelines of the "Institut für Verglasungstechnik Hadamar". In addition, the glass pane must be blocked in the area of the safety interlocks (spacer blocks) to prevent the sash from moving into the glazing rebate.

Glazing

At least P4A glazing in accordance with EN 356 or A3 in accordance with DIN 52290 must be used in the RC2 resistance class element.

Fittings

When installing a security fitting in accordance with DIN 18257- ES2 / EN 1906 burglar resistance class 2 with ZA, a locking cylinder in accordance with DIN 18252-BS / EN 1303- attack resistance class 1 with drilling protection must be used. When installing a security fitting in accordance with DIN 18257 ES 2 / EN 1906 burglar resistance class 3 without ZA, a locking cylinder in accordance with DIN 18252 - BZ / EN 1303 - attack resistance class 1 with drilling and pulling protection must be used. Locking cylinders and protective fittings must be certified and monitored by PIV CERT (alternatively by a certification body in accordance with DIN EN ISO/IEC 17065).

Important notes

After installing the door, check that full deadbolt exclusion is guaranteed for all locking elements.

The profile cylinder must be flush with the outer shield if the outer shield does not have a cylinder cover.

The operation and closing ability of the front door must be checked and, if necessary, adjusted in accordance with DÖPFNER's general specifications.

The familiar DÖPFNER care instructions must be observed for the maintenance and care of security windows.

TYPICAL WALL CONNECTIONS



	Masonry	Reinforced concrete	Aerated concrete
Wall thickness	≥ 115 mm	≥ 100mm	≥ 170 mm
Compressive strength class	≥ 12	≥ B15	≥ 4
Other	Mortar group of at least MG II or DM		The design must be bonded

In the case of timber panel walls, the respective manufacturer's specifications determine whether burglar-resistant building elements may be installed.

In the case of a new building, the data of the wall regarding the compressive strength class is available in the specifications.

In old buildings, it is possible that the stone class is undefined. It is possible to carry out drilling tests here.

The fasteners must be matched to the given masonry and, if possible, agreed with a fastener manufacturer. The screw connection length in the building connection must be matched to the masonry and the fastening.

ASSEMBLY CERTIFICATE

For every installed burglar-resistant window element from DÖPFNER an installation certificate is filled out and handed over to DÖPFNER, the installation partner and the end customer

ASSEMBLY CERTIFICATE RC2

MONTAGEFIRMA
Address | Address | Company stamp

certifies that the burglar-resistant components listed below comply with the
The installation is in accordance with the Döpfner installation instructions RC2 (resistance class 2) and all guidelines
were complied with.

CONSTRUCTION PROCEDURES	
Building owner	
Address client	
Street	
Place	

ASSEMBLED ELEMENTS

Position	Place	Location in the property	Classification	Special information

Döpfner Betriebs-GmbH, Co. KG | Max-Planck-Str. 2 | D-97408 Rulzshofen | Phone 09382 97 42-0 | www.doepfner.de

Date _____ Signature _____ Stamp _____

WITH CERTAINTY!



PRICE FINDING

The following applies to the pricing of DÖPFNER RC2 windows:

Price for DÖPFNER-BASIC-SECURITY PLUS RC 2-SHUTTERS

DÖPFNER-RC 2-SURCHARGES

- RC2-compliant fittings (PZ rosettes with pull protection or security PZ) 2 x hinge side security device KFV 8042
- P4A glazing RC2 bonding
- Possible material surcharge (spruce NOT permitted!> Surcharge on larch or oak)



ASSEMBLY PARTNER SURCHARGE

- Installation in accordance with RC2 regulations

The following additional prices must be calculated for a tested RC front door in accordance with DIN 1627-1630.

Overview of surcharges | See DÖPFNER-HAUSTÜREN price list | Register 3-2

Castle	Lock systems AS 2600 AS 2608 AS 3600	The DÖPFNER standard lock AS 2600 is already RC 2-tested. Therefore WITHOUT SURCHARGE!	
Tape side lockingw	2 x per front door	Unit price 39,00 Euro	78,00 Euro
PZ rosette with core pull protection or Security PZ (RC 2-tested)		Individual	See price list DÖPFNER-HAUSTÜREN
P4A glazing	Stadip Protect P4A Light	5 mm uncoated	127,00 €/m2
Bonding the pane			34.00 €/running meter

Front doors with security fittings to RC 2 are subject to the following size limits
Sash width from 920 mm - 1214 mm | Sash height from 1777 mm - 2345 mm

FURTHER SECURITY OPTIONS

Surcharges for optional security components such as alarm spiders and lock monitoring are also included in the current DÖPFNER entrance door price list.

Döpfner Betriebs-GmbH+ Co. KG

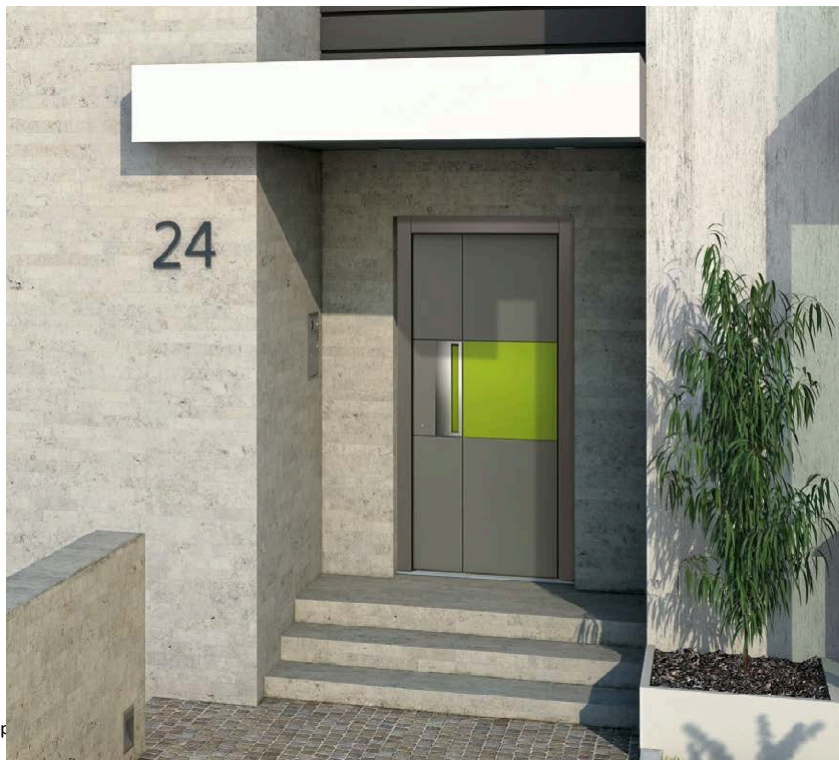
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