

## Novoferm. On-site. Direct. Europe-wide.

The Novoferm Group is one of the leading European system suppliers of doors, garage doors, frames and operators. We offer a large range of products and services for private, commercial and industrial applications. All our products are manufactured according to state-of-the-art technology and highest quality standards. We therefore integrate maximum functionality and innovative design. We manufacture our products in various international locations and with our Europe-wide network we are always able to deal with you – wherever you are!

Your Novoferm sales partner



**PORTGAIA**  
PRODUTOS DE SEGURANÇA

2011.04/TAS/Sek\_DE/EXP

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Certified burglar  
resistance, exclusive  
garage door designs

## Coming Home Automatic Sectional Garage Door Systems





## Your dream door and what's behind it:

Your car is not the only thing that can be found behind a Novoferm sectional garage door, but also the many decades of experience and expertise of one of Europe's leading system providers and brand manufacturers.

### Figures that figure for you!

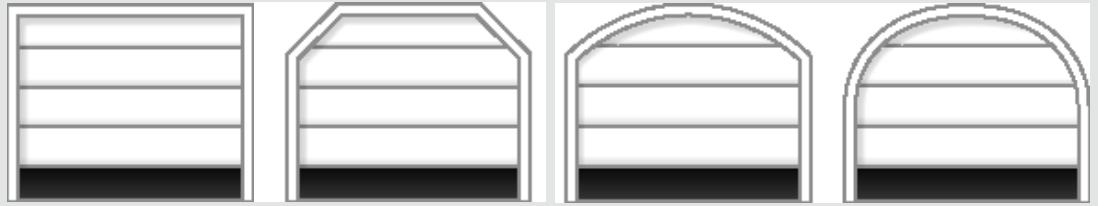
- All Novoferm garage doors and operators are manufactured according to the very strict quality management system DIN ISO 9001.
- All sectional garage door systems meet the high safety requirements for the European garage doors product standard EN 13241-1.
- All Novoferm garage doors and operators are tested by recognized institutes both individually and in combination.
- What does "TÜV-tested burglar resistance" mean in terms of your safety? The German industry association for garage doors, doors and frames (Industrieverband Tore Türen Zargen (ttz)) has drawn up a guideline that defines burglar protection based on the existing standards. Tests are performed, and the results certified, by TÜV NORD CERT GmbH. Which means: Certified garage doors made by Novoferm guarantee the highest levels of safety that have been tested by an impartial organization.
- Novoferm offers a 10 year guarantee on all steel sectional garage doors as well as a 5 year guarantee on the mechanics of the NovoPort® system.
- Despite all this quality assurance, we still make sure that our garage door systems remain economical in price and provide excellent value for money.



The competent advice and top-class service of your Novoferm stockist is available whenever you need it.



## For every opening



A Novoferm sectional garage door will always fit: in a classic square-shaped garage...

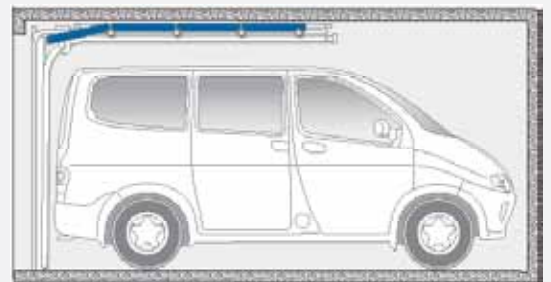
... behind an opening with slanted corners...

... unobtrusively erected segment arches...

... or elegantly integrated arches.

## For every vehicle

The full opening height can always be used in a sectional garage door with electrical operator. When replacing an up + over door with a sectional garage door, the passage width becomes even larger, because the sectional garage door is typically mounted behind the opening. There is also more room inside the garage – making it ideal for high vehicles like jeeps or vans – due to the fact that the door sections open vertically while conveniently rolling upwards and then underneath the ceiling in order to save space.



## More space in the garage

Because a sectional door opens vertically upwards and doesn't swing out - in contrast to the up + over door - you can optimally use every inch of space in front of the garage to park a second car, for example.

And garages located near roads or pavements do not put pedestrians at risk and the traffic keeps flowing.



**0.5W**  
in standby mode

## NovoPort®: Clever operation

### Your operating advantages at a glance:

- Quick and easy operation via a 2-channel hand transmitter. Apart from the hand transmitter, the operator can also be operated via a push button, key button or coded key pad, which are mounted on the garage wall. Radio controlled, not a wire anywhere. That saves costs!
- Completely safe against scanning due to automatic signal decoding. The receiver lies protected in the operator housing.
- Simple programming via menu-guided control with 7 segment display. Each programming step can be individually altered and infinitely saved, even in the event of a power cut.
- An integrated fault diagnosis system facilitates potential service work.
- Soft start and stop function.
- Connectable garage outside lighting up to max. 500 Watt, can be operated via hand transmitter.
- No replacement of micro-fuses through short-circuit proof transformer.

## Your installation advantages at a glance:

1

### No additional operator track

The NovoPort® operator is directly integrated into the side garage door track. This saves on the cost of materials, installation and maintenance.

2

### No extra space required

Operator requires no extra space above the garage door so you can use the space for storage purposes. No on-site related installation problems.

3

### No lowering of the ceiling or drive unit

Special lowering constructions often have to be manufactured in case of high garage ceilings in order to be able to mount the operator. This is not necessary with the NovoPort® system.

4

### No ceiling assembly

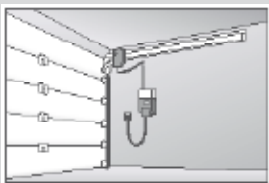
No installation problems in the ceiling area: Lighting, beams or drainpipes do not have to be dismantled or by-passed. No difficult drilling into reinforced concrete ceilings, no use of special wall plugs in gypsum plasterboards, no danger of through drilling with thin ceilings, no dirt from operator components through bore dust.

5

### No increase in slide-in depth

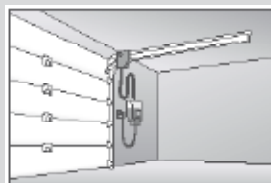
Track-guided operators protrude approx. 30–40 cm outwards beyond the garage door and often have to be shortened on the building site. NovoPort® fits immediately!

**The patented operator system mounts on the side track and the wall – not the ceiling**

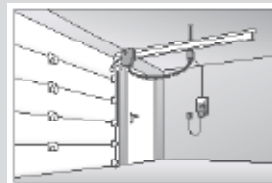


#### You have the choice:

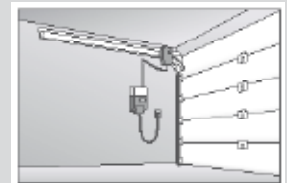
The operator can be mounted in the right garage track, the control on the right garage wall...



... or directly next to the garage door in the area of the side rebate.



A cable extension can be used in case of a fitted side rebate, e.g., through a side door.



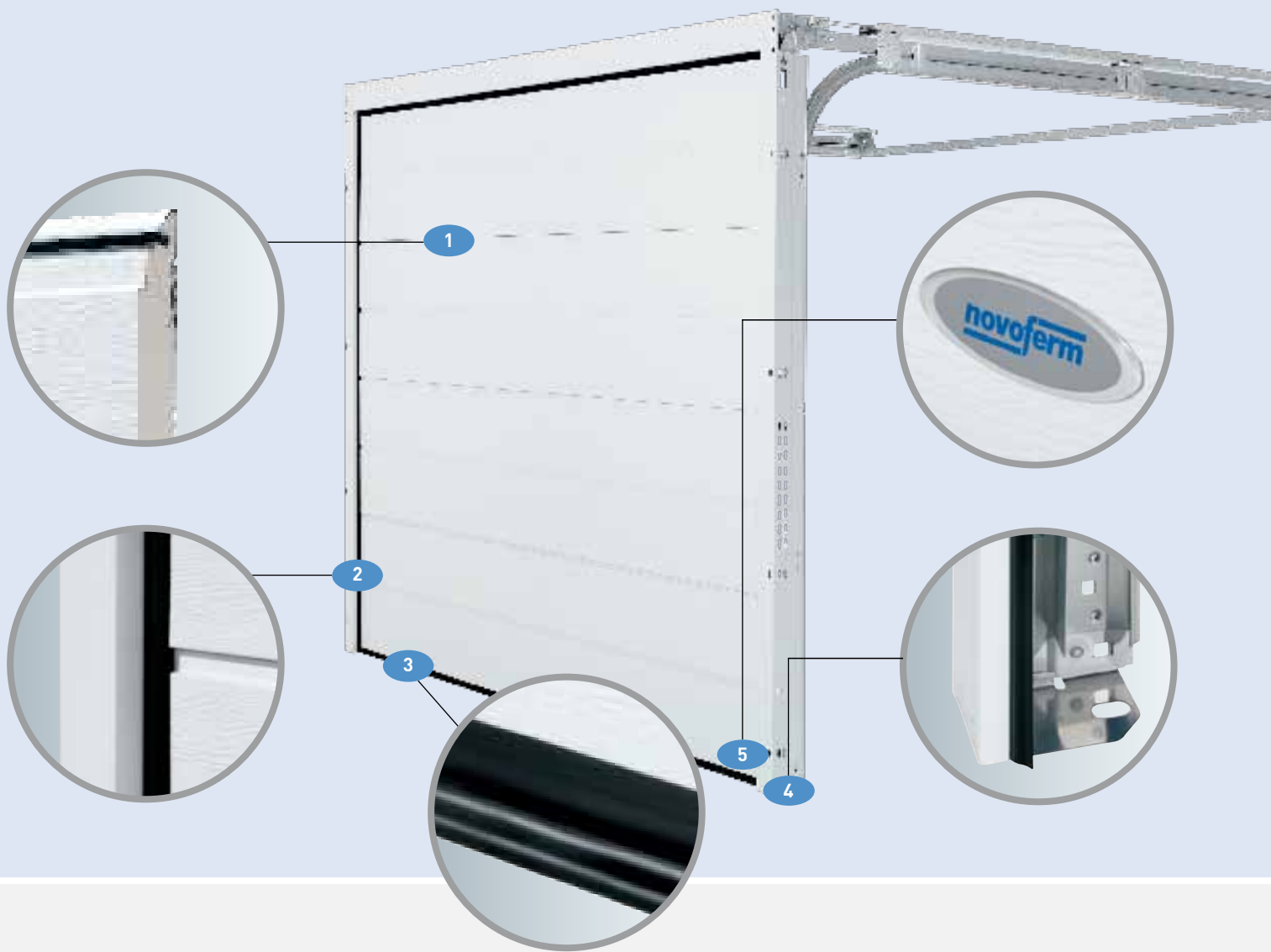
All the installation variants shown in illustrations 1–3 also apply for the left garage door side.



## Even more NovoPort® highlights

- A push button for opening the garage from the inside is directly integrated into the control unit and does not have to be purchased and mounted separately as an accessory.
- The garage inside lighting (40 Watt), which is integrated in the control unit, switches on automatically when the garage is opened; the lighting duration can be programmed from 1 to 4 minutes.

**Smooth running operator:** The wear resistant, maintenance-free high-tech toothed belt lies well-protected in the garage door track (small illustration). This guarantees maximum operational reliability, a long service life and quiet and smooth running.



## Quality that sets standards, exclusively available from Novoferm

### 1 Double-skinned insulation

Our steel sections are exclusively manufactured in a double-skinned sandwich construction and filled with an insulating rigid PUR foam core. This ensures higher surface stability, quieter door running and improved sound-proofing and heat insulation in comparison to single-skinned garage doors. The flexible lip seals between the sections fit softly even at low temperatures and prevent any heat losses and dust from penetrating.

### 2 Lip seals on the frame

Extra wide lip seals on the side frame provide even better heat insulation and dirt resistance.

### 3 Frost-proof floor seal

A rubber profile on the bottom edge of the garage door guarantees optimum protection from water and dirt, evens out slight floor unevenness and prevents damage and injuries. The floor seal is made of high-

quality EPDM (ethylene propylene diene monomer), which is known for its high elasticity, weather resistance and long life-span.

### 4 Stainless-steel frame base

Novoferm sectional garage doors have a high weather resistant stainless steel frame base. Thus enabling water and impeded drainage to be able to drain off freely and also ensure that no rust can start to form on the frame over the long-term.

The frame base remains brittle resistant also at low temperatures and forms a clean visual seal.

### 5 The Novoferm quality seal

Quality doesn't need to hide away: Which is why all Novoferm sectional garage doors bear the Novoferm seal of quality, which guarantees the use of the best materials and a top-class finish!



# We ensure every aspect of your safety

1

## Anti-pinch inside and out

The special design of the sections and hinges prevents pinching on the door leaf from the outset.

2

## Angular frame interference protector and steel ropes arranged inside

The angular frames make it almost impossible for there to be interference between the door leaf and the frame. Carrying cables arranged inside minimize the risk of injury and guarantee maximum operational reliability.

3

## Operator with automatic cut-out system

The automatic cut-out device stops and opens the garage door as soon as it comes up against an obstacle. The electronically monitored push-up safeguard provides maximum burglar resistance.

4

## Triple safety extension spring assemblies

The garage door type iso 20 is fitted with robust triple safety extension spring assemblies and double steel cables. The garage door cannot fall even in case of a fracture to one of the springs.

5

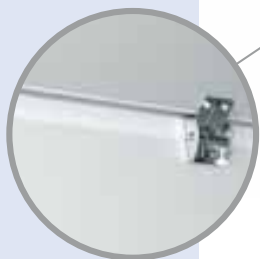
## Interference-protected deflection pulleys and spring channels

The extension springs lie protected in a spring channel over the door track in order to prevent against interference from the side. The steel cables run on interference-protected upper deflection pulleys with U-shaped rail holders.



## Torsion springs for iso 45

The heavier garage door type iso 45 boasts robust, maintenance-free torsion springs with tested spring break safety feature in accordance with EN 12604. Thus, the garage door can be secured from falling even in case of a spring fracture and can be easily raised again. The torsion springs are mounted either at the front or at the rear on the guide rails depending on the space available.







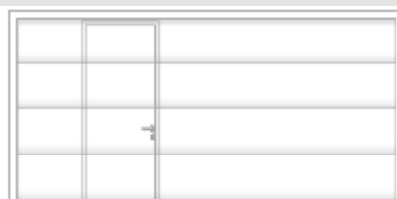
## Perfectly integrated: pass doors in the same design

If your garage is too narrow for a side door, but you don't want to have to do without that convenience of a side door, then we recommend an integrated pass door. Pass doors are available for all iso 45 exclusive garage doors up to a width of 4.25 m. They offer a practical passage width of 90 cm and provide perfect heat insulation due to the double-skinned insulation used. And to make sure everything looks great, too, the frames and hinges are standard white (RAL 9016) on traffic white garage doors and are available in the same colour as varnished garage doors at additional charge.

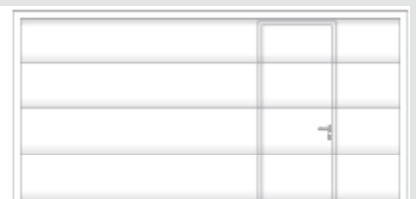
**Pass doors are arranged centrally or asymmetrically depending on the garage door width:**



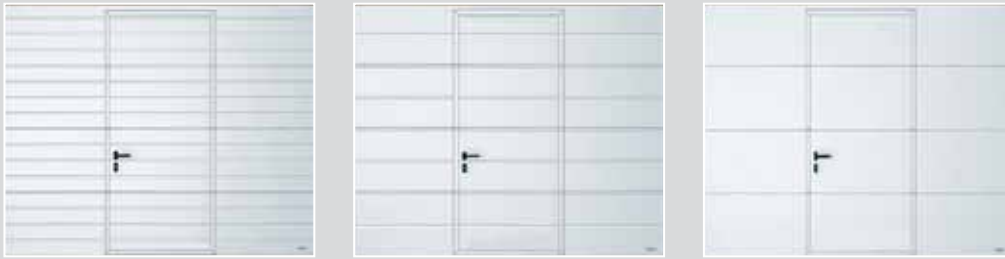
Symmetrical arrangement for garage door widths up to 3.50 m



Asymmetrical arrangement for garage door widths above 3.50 m – either left or right



## Pass door styles and glazing options for garage door type iso 45



Pass doors for iso 45 exclusive garage doors are available with horizontal rib, large rib and flush patterns (coord. widths 2,000 - 4,250 mm / max. coord. height 3,125 mm)



Glazing variants for all garage door patterns: Standard window, cross window, rhombus window or light strip. Illustrations show garage door leaf size 2,500 x 2,125 mm. Other garage door sizes can deviate from the illustration shown.

## Available colours and surfaces

The door leaf frame is standard varnished in RAL 9016 traffic white. It can be varnished in the same colour as the door leaf using any other RAL colour for a small additional charge. In the case of coated door leaves (wood shades, satin grey, titanium metallic), the door leaf frame is varnished in a matching shade at additional charge.



Traffic white



RAL colours



Satin grey



Golden oak



Dark oak



Mahogany



Titanium metallic



### The door sill area

The robust garage door leaf frame ensures that the garage door cannot be bent even when opened. The anodized aluminium sill is levelled towards the edges and only 24 mm high.



### Door closes automatically

The standard door closer is responsible for automatic closing. This is especially practical when you've got your hands full e.g. if you are taking your bicycle, moped or lawnmower out of the garage. A hold-open mechanism (at 90°) is available for a small additional charge.



### Softline profiles

Softline profiles (rounded) and concealed hinges ensure the aesthetic overall appearance of the garage door. 90 cm clear passage width of the pass doors.



## Set of aluminium panel frames

### Exterior rebate panel for all Novoferm ceiling-mounted sectional garage doors

As a result of space constraints, sectional garage doors are frequently positioned in front of the opening of ready-made garages or when renovating old garages. The new set of aluminium panel frames is a high quality solution developed by Novoferm that can be used on all sectional garage doors.

#### Particular advantages of the aluminium panel frame set:

- Suitable for all Novoferm sectional garage doors
- Top quality aluminium finish
- Standard colour: RAL 9016 traffic white
- Available in door leaf colour on request (additional charge)
- Profiles cut to measure at the factory. No need to shorten them on site.
- No loss of opening width
- Elegant trim profile, just 7 mm high
- Profile overlaps by 44 mm to cover any masonry damage during preparation



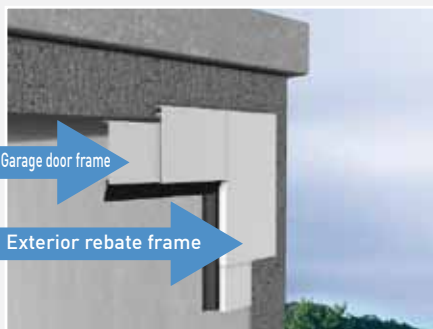
Overall external appearance



Interior anchor fastening



Universal panel solution, view from the outside



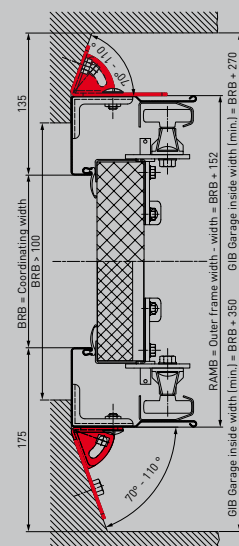
The panel solution for an attractive appearance

#### The particular benefit:

All ceiling-mounted sectional garage doors from Novoferm can now be used as an exterior rebate system.

### Our solution for slanted side walls: 3-D installation anchors

- Optimum fastening of the angular frames to slanted side walls, frequently used in ready-made garages
- Angle is adjustable from 70 – 110°



All dimensions in mm

# iso 20

## Garage door facts

- Ideal for private garages up to 3 m in width
- Ideally suited for renovation due to special renovation sizes and minimum space required
- Quicker and easier installation with pre-assembled models
- Smooth running and stable, with double-skinned, galvanised steel sections
- High degree of safety with anti-pinch feature inside and out (according to EN 12604) as well as interference-protected triple safety extension spring assemblies
- Good heat insulation with 20 mm thick rigid PUR foam core (heat insulation value  $K = 1.0 \text{ W/m}^2\text{K}$ )
- Outside: Polyester prime coated, traffic white (similar to RAL 9016)
- Inside: Polyester prime coated, grey white (similar to RAL 9002)



Triple safety extension spring assembly with double steel cables

## Surfaces



**Woodgrain:**  
discreetly grained wood appearance



**Noblesse (smooth):**  
suitable for straight lined, modern architecture

## Colours



**Traffic white,**  
similar to RAL 9016



iso 20 is available in 11 further economical Super Colors and almost all RAL colours, see iso 45 for colour samples.

## Insulation thickness

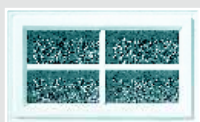


iso 20 is filled with a 20-mm rigid foam core, which provides good heat and sound insulation.

## Window



**Standard window**



**Cross window look**



**Rhombus pattern**

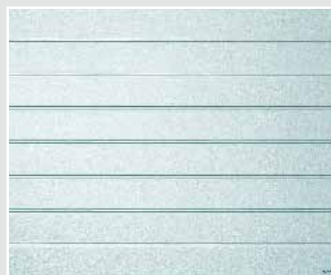
Window dimensions: approx. 390 x 190 mm

## Door patterns

## Side doors



**Horizontal rib**



**Modern large rib**



**Stylish flush**



**Elegant raised panel appearance**



**Attractive prism pattern**



**Prism design**



Illustration shows garage door leaf size 2,500 x 2,125 mm. Other garage door sizes can deviate from the illustration shown.

# iso 45

## Garage door facts

- Ideal for building new or renovating existing private garages from 2,250 to 5,500 mm in width
- Smooth running, superbly durable and stable thanks to a sturdy design that is extremely distortion-resistant
- Perfect functional reliability and easy operation with torsion spring shaft with spring break safety feature on both sides
- Maximum personal safety with anti-pinch feature inside and out (according to EN 12604)
- Maximum heat insulation with 45 mm thick rigid PUR foam core (heat insulation value  $K = 0.5 \text{ W/m}^2\text{K}$ )
- Outside: Polyester prime coated, traffic white (similar to RAL 9016)
- Inside: Polyester prime coated, grey white (similar to RAL 9002)



Torsion spring with spring break safety feature on both sides

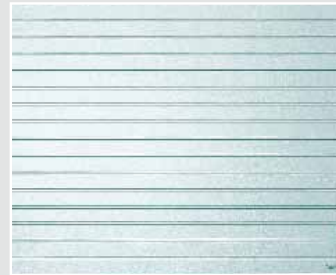
## Insulation thickness



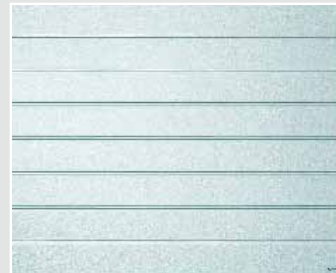
iso 45 is filled with a 45 mm rigid foam core, which provides max. heat insulation and top sound-proofing values.

## Door patterns

## Side doors



Horizontal rib



Modern large rib



Stylish flush



Elegant raised panel appearance



## Standard colour

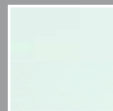


Traffic white, similar to RAL 9016

## Surfaces



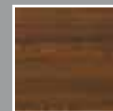
Woodgrain: discreetly grained wood appearance



Noblesse (smooth): suitable for straight lined, modern architecture



Golden oak: the perfect wood imitation with an oak appearance



Dark oak: for elegant ambiance

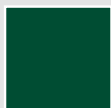


Mahogany: the warm shade of the finest of all real woods

## Super Colors



RAL 5011 Steel blue



RAL 6005 Moss green



RAL 6009 Fir green



RAL 7016 Anthracite



RAL 7035 Light grey



RAL 7040 Window grey



RAL 8001 Ochre brown



RAL 8011 Nut brown



RAL 8014 Sepia brown



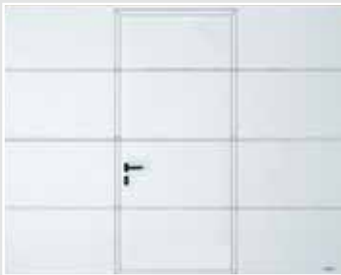
RAL 9006 White aluminium



RAL 9007 Grey aluminium

# To open your sectional garage door:

## Pass doors

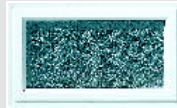


## Individual bright spots

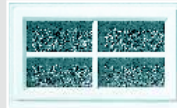


And if you are especially "hungry for light" you can turn practically one whole garage door segment into a window with a horizontal light strip. Create an individual eye-catching element with vertically arranged portholes in a high-quality stainless steel frame.

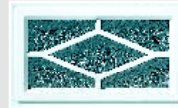
## Window



Standard window



Cross window look



Rhombus pattern



Segment arch pattern



Sunrise pattern

Window dimensions: approx. 390 x 190 mm

## Window cutouts



Rectangular, wide, with transparent double acrylic glazing (dimensions: approx. 650 x 250 mm; suitable for section system heights of 450 mm or more)\*



Rectangular, narrow, with transparent double acrylic glazing (dimensions: approx. 565 x 135 mm)\*



Porthole with stainless steel frame, with 10-mm double acrylic glazing (diameter: approx. 290 mm)\*\*

\*Only for horizontal rib, large rib and flush garage door patterns.

\*\*Only for large rib and flush garage door patterns.

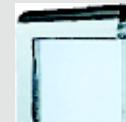
## Light strips



Pane thickness 16 mm



Acrylic glass with crystal structure



Double pane acrylic glass



Polycarbonate cross bar double plate

The light strip is furthermore available as plastic-coated expanded metal.

Especially scratch-resistant and dent reversible:

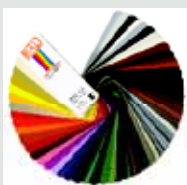


Satin grey: distinctive coating in shimmering slate grey



Titanium metallic: high-quality, brushed metal finish

## RAL colours



## Handles



Door handle, plastic-coated, in Super Color or RAL colour



Aluminium silver colour anodized



Aluminium new silver colour anodized



Aluminium brass colour anodized



Aluminium with rustic structured effect



Aluminium, plastic-coated, traffic white

Suitable garage door handles are available in all 10 Super Colors and many RAL colours as well as in five exclusive, corrosion-resistant anodized aluminium variants.



# Here are the options!



**NOVOFERM  
PATENT**

## NovoPort® operator system

Only available in combination with a Novoferm sectional garage door

- Patented operating system: channelled in the garage door track
- Integrated shutdown automatic device and electronically monitored push-up safeguard
- Soft start and stop function
- Menu-guided control
- Integrated fault diagnosis system
- Maintenance-free toothed belt
- Integrated push button
- Integrated garage inside lighting (40 watts)
- Connectable garage outside lighting (up to 500 watts)



## Novomatic ceiling-mounted operator

Suitable for sectional garage doors and up-and-over doors

- Three models: Novomatic 403 (500 N), 553 S (700 N), 803 S (1,000 N)
- Maximum opening speed: 22 cm/s (only Novomatic 553 S and 803 S), closing speed: 17 cm/s.
- Integrated shutdown automatic device and electronically monitored push-up safeguard
- Soft start and soft stop function
- Wear-resistant toothed belt
- Rotatable operator head
- Adjustable opening time from 10 to 240 seconds
- Programmable inside lighting and connectable outside lighting
- Connectable traffic light control (only Novomatic 803 S)
- Manual snap unlocking mechanism in case of power cuts

## Hand transmitter



**Mini-Novotron 502,**  
2-channel hand transmitter



**Mini-Novotron 504,**  
4-channel hand transmitter



**Micro-Novotron 512,**  
2-channel hand transmitter



**NEW**

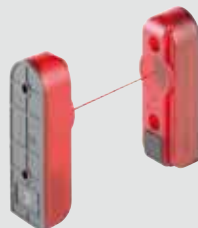
**Micro-Novotron 512 Design,**  
2-channel hand transmitter

- Control of VivoPort® and Novomatic
- Additional control of garage outside lighting, LED lighting kit also possible
- Completely safe from manipulation through KeeLoq rolling code
- Frequency: 433 MHz

## Safety extras



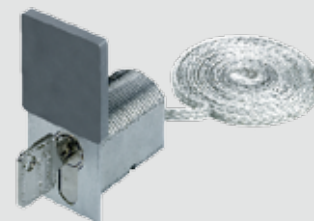
**Extra 625 one-way opto sensor**  
• Suitable for 24 V DC, IP54  
• Range: 8 m



**Extra 626 one-way opto sensor**  
• Suitable for 20-28V, IP50, 2-wire  
• Range: 8 m



**Extra 628 reflection light opto sensor**  
• Suitable for 24-240 V AC, 12-240 V DC, IP 54  
• Range: 5 m



**Extra 315 emergency unlocking**  
• With safety profile half cylinder





Signal 111 remote wall switch



**with compact plastic housing**

- Keeloq rolling code signal, 433 MHz
- Compatible with Novoferm hand transmitters
- 2-channel

Signal 112 wall switch



**with compact plastic housing**

- 1 door / 1 lighting system, can be switched separately
- Freely definable continuous lighting (On/Off)
- Absence protection (all switches and transmitters are switched off)

Signal 218 remote coded key pad



**with stainless steel panel**

- For controlling door operators, LED lighting kit, outside lighting, etc.
- Keeloq rolling code signal, 433 MHz
- 10 transmission codes
- Keypad backlighting switches on when activated

**Key switch**



For surface mounting

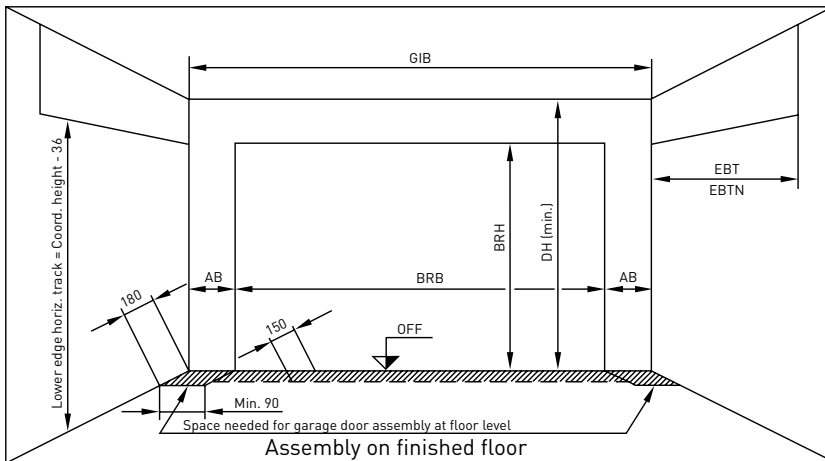


For flush mounting

- Single switch pulse [also available with double switch pulse]
- 40.5 mm safety cylinder
- Also available as radio key-operated switch for flush mounting

## Installation dimensions for sectional garage doors

### Required installation dimensions

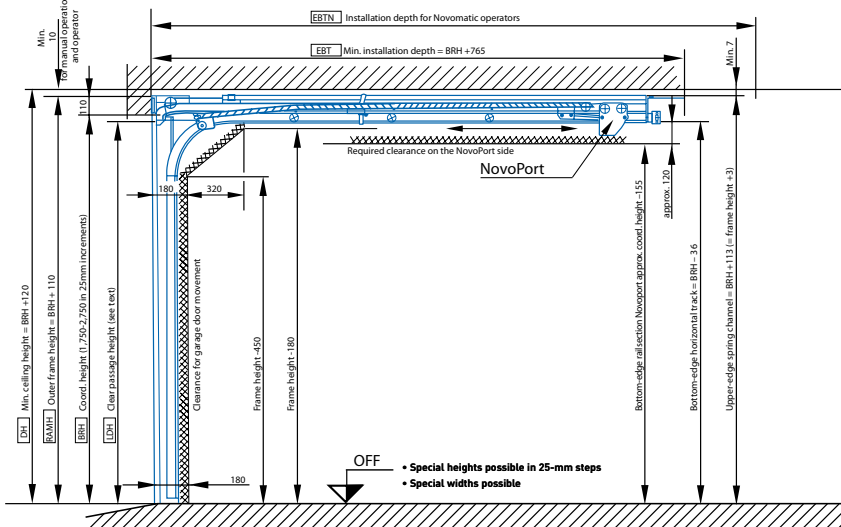


All dimensions in mm.

- BRB = Coordinating width (order size)
  - BRH = Coordinating height (order size)
  - DH = Ceiling height (minimum dimension)
  - AB = 90 mm rebate width (minimum dimension)
  - GIB = Garage inside width (minimum dimension)
  - RAMB = Outer frame width
  - RAMH = Outer frame height
  - EBT = Installation depth of the door for manual operation: see table
  - EBTN = Installation depth with Novomatic operators:  
Please also refer to the section on garage door operators  
up to BRH 2,375 = 3,350  
up to BRH 2,500 = 3,600  
up to BRH 3,125 = 4,350
  - OFF = Upper-edge finished floor
  - LDH = Clear passage height
- If the structure does not have the required minimum dimensions, it can be compensated by fitting panels and profiles.

## Installation dimensions for iso 20 sectional doors

### Vertical section



#### Clear passage height with manual operation:

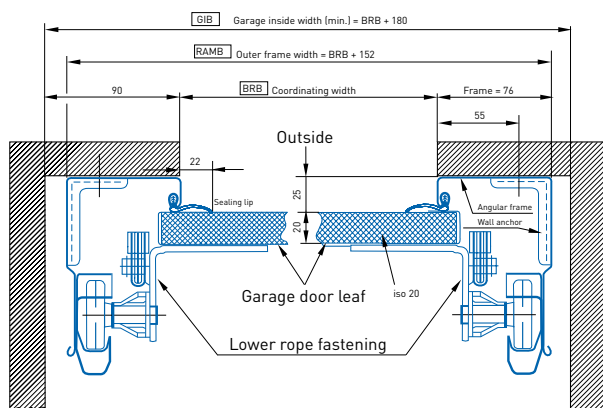
- BRH - 100 mm (without clips in the tracks)
- BRH - 50 mm (with clips in the tracks)

#### With operator:

- BRH ± 0
- (Bottom-edge inside handle = BRH - 50 mm)

All dimensions in mm.

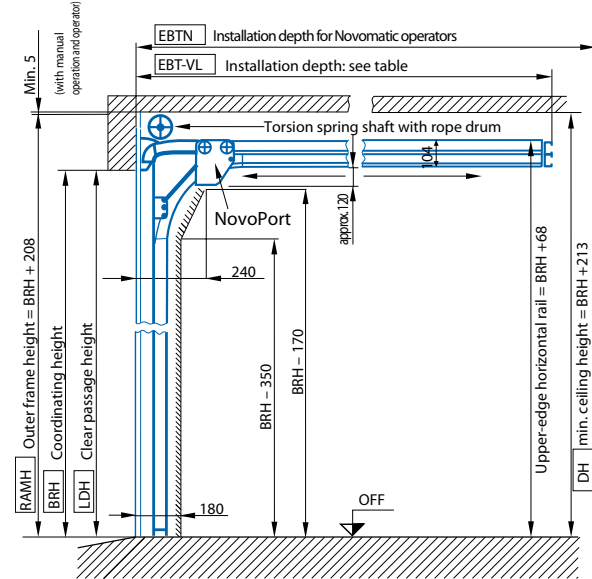
### Horizontal section through garage door



All dimensions in mm.

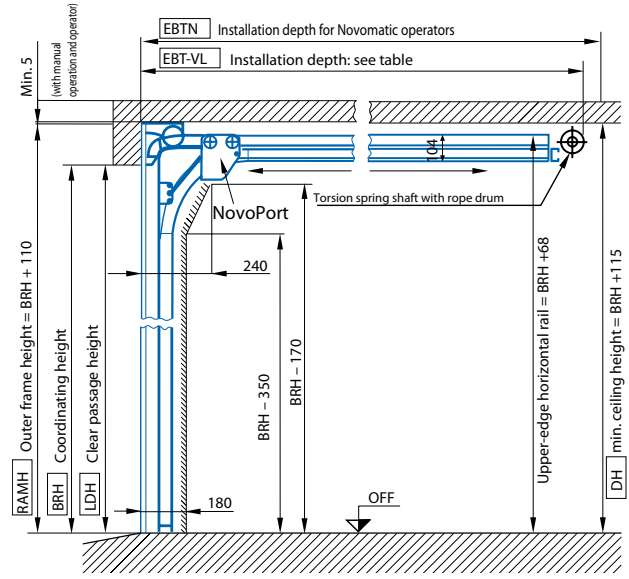
## Installation dimensions for iso 45 sectional doors

### Vertical section: Front-mounted torsion spring shaft (VL)



All dimensions in mm.

### Vertical section: Rear-mounted torsion spring shaft (HL)



All dimensions in mm.

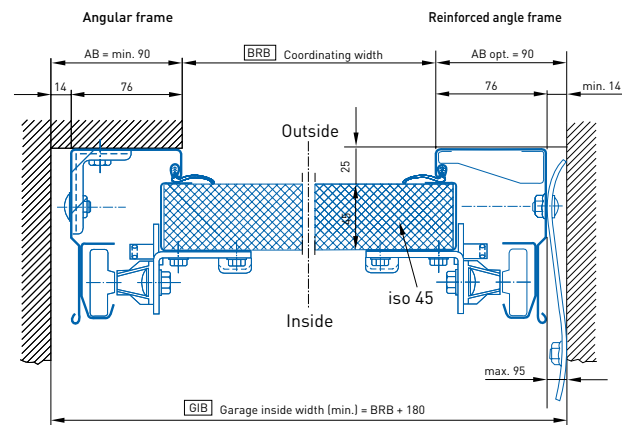
### Clear passage heights

Manual operation BRH - 50 (with clips in the tracks)  
BRH - 100 (without clips in the tracks)

With operator BRH ± 0

With bottom-edge inside handle BRH - 50

### Horizontal section

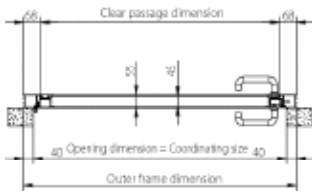


All dimensions in mm.

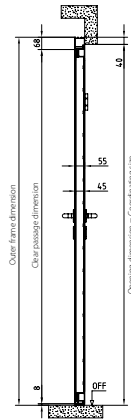
## Installation dimensions for side doors

### Block frame (opens to the inside and outside)

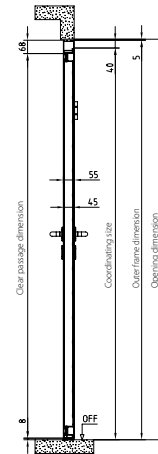
Horizontal section/Installation behind the opening



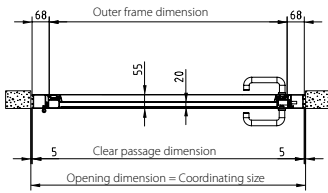
Vertical section/Installation behind the opening



Vertical section/Installation behind the opening



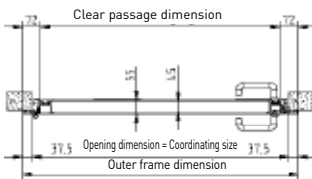
Horizontal section/Installation in the opening



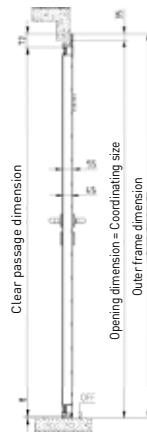
All dimensions in mm.

### Corner frame, 3-sided (opens inwards and outwards), 4-sided (opens only outwards)

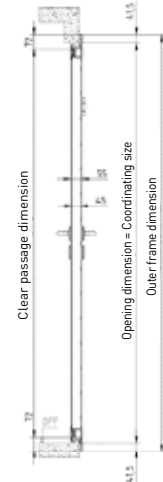
Horizontal section



Vertical section/3-sided



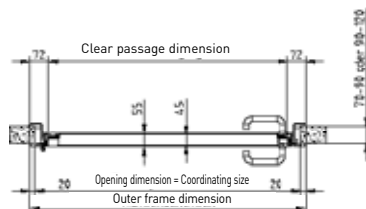
Vertical section/4-sided



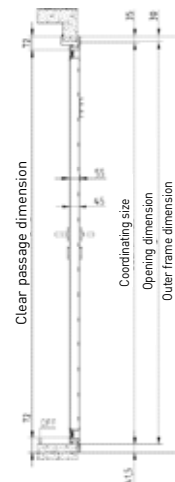
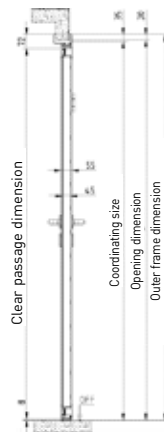
All dimensions in mm.

### Clamp frame, 3-sided (opens only outwards)

Horizontal section



Vertical section



All dimensions in mm.

The design of the side doors is equivalent to type iso 45

## Installation dimensions for iso 20 sectional doors

Order size (coord. size) (= opt. clear finished dimension) Coordinating size	Maximum clear finished dimension	Outer frame dimensions RAM	Garage inside dimensions GIB	Insertion depth	Ceiling height DH	Clear passage height LDH	
						Manual operation	Operator
Width x height	Width x height	Width x height	Width		min.		
2,250 x 1,875	2,340 x 1,965	2,402 x 1,985	2,430	2,640	1,995	1,825	1,875
2,250 x 2,000	2,340 x 2,090	2,402 x 2,110	2,430	2,765	2,120	1,950	2,000
2,250 x 2,125	2,340 x 2,215	2,402 x 2,235	2,430	2,890	2,245	2,075	2,125
2,375 x 1,875	2,465 x 1,965	2,527 x 1,985	2,555	2,640	1,995	1,825	1,875
2,375 x 2,000	2,465 x 2,090	2,527 x 2,110	2,555	2,765	2,120	1,950	2,000
2,375 x 2,075	2,465 x 2,165	2,527 x 2,185	2,555	2,840	2,195	2,025	2,075
2,375 x 2,125	2,465 x 2,215	2,527 x 2,235	2,555	2,890	2,245	2,075	2,125
2,375 x 2,250	2,465 x 2,340	2,527 x 2,360	2,555	3,015	2,370	2,200	2,250
2,375 x 2,375	2,465 x 2,465	2,527 x 2,485	2,555	3,140	2,495	2,325	2,375
2,500 x 1,875	2,590 x 1,965	2,652 x 1,985	2,680	2,640	1,995	1,825	1,875
2,500 x 2,000	2,590 x 2,090	2,652 x 2,110	2,680	2,765	2,120	1,950	2,000
2,500 x 2,075	2,590 x 2,165	2,652 x 2,185	2,680	2,840	2,195	2,025	2,075
2,500 x 2,125	2,590 x 2,215	2,652 x 2,235	2,680	2,890	2,245	2,075	2,125
2,500 x 2,250	2,590 x 2,340	2,652 x 2,360	2,680	3,015	2,370	2,200	2,250
2,500 x 2,375	2,590 x 2,465	2,652 x 2,485	2,680	3,140	2,495	2,325	2,375
2,500 x 2,500	2,590 x 2,590	2,652 x 2,610	2,680	3,265	2,620	2,450	2,500
2,500 x 2,750	2,590 x 2,840	2,652 x 2,860	2,680	3,515	2,870	2,700	2,750
2,625 x 2,125	2,715 x 2,215	2,777 x 2,235	2,805	2,890	2,245	2,075	2,125
2,750 x 2,000	2,840 x 2,090	2,902 x 2,110	2,930	2,765	2,120	1,950	2,000
2,750 x 2,125	2,840 x 2,215	2,902 x 2,235	2,930	2,890	2,245	2,075	2,125
3,000 x 2,000	3,090 x 2,090	3,152 x 2,110	3,180	2,765	2,120	1,950	2,000
3,000 x 2,125	3,090 x 2,215	3,152 x 2,235	3,180	2,890	2,245	2,075	2,125
3,000 x 2,250	3,090 x 2,340	3,152 x 2,360	3,180	3,015	2,370	2,200	2,250
3,000 x 2,375	3,090 x 2,465	3,152 x 2,485	3,180	3,140	2,495	2,325	2,375
3,000 x 2,500	3,090 x 2,590	3,152 x 2,610	3,180	3,265	2,620	2,450	2,500

All dimensions in mm.

## Installation dimensions for iso 45 sectional doors

Order size (= opt. clear finished dimension) Coordinating size (coord. size)	Maximum clear finished dimension	Outer frame dimensions RAM (VL)	Outer frame dimensions RAM (HL)	Garage inside dimensions GIB	Insertion depth (EBT) (VL)	Insertion depth (EBT) (HL)	Ceiling height (DH) (VL)	Ceiling height (DH) (HL)	Clear passage height (LDH)	
									Manual operation	Operator
Width x height	Width x height	Width x height	Width x height	Width			min.	min.		
2,250 x 1,875	2,340 x 1,965	2,402 x 2,083	2,402 x 1,985	2,430	2,455	2,635	2,090	1,990	1,825	1,875
2,250 x 2,000	2,340 x 2,090	2,402 x 2,208	2,402 x 2,110	2,430	2,580	2,760	2,215	2,115	1,950	2,000
2,250 x 2,125	2,340 x 2,215	2,402 x 2,333	2,402 x 2,235	2,430	2,705	2,885	2,340	2,240	2,075	2,125
2,375 x 1,875	2,465 x 1,965	2,527 x 2,083	2,527 x 1,985	2,555	2,455	2,635	2,090	1,990	1,825	1,875
2,375 x 2,000	2,465 x 2,090	2,527 x 2,208	2,527 x 2,110	2,555	2,580	2,760	2,215	2,115	1,950	2,000
2,375 x 2,125	2,465 x 2,215	2,527 x 2,333	2,527 x 2,235	2,555	2,705	2,885	2,340	2,240	2,075	2,125
2,375 x 2,250	2,465 x 2,340	2,527 x 2,458	2,527 x 2,360	2,555	2,830	3,010	2,465	2,365	2,200	2,250
2,500 x 1,875	2,590 x 1,965	2,652 x 2,083	2,652 x 1,985	2,680	2,455	2,635	2,090	1,990	1,825	1,875
2,500 x 2,000	2,590 x 2,090	2,652 x 2,208	2,652 x 2,110	2,680	2,580	2,760	2,215	2,115	1,950	2,000
2,500 x 2,125	2,590 x 2,215	2,652 x 2,333	2,652 x 2,235	2,680	2,705	2,885	2,340	2,240	2,075	2,125
2,500 x 2,250	2,590 x 2,340	2,652 x 2,458	2,652 x 2,360	2,680	2,830	3,010	2,465	2,365	2,200	2,250
2,500 x 2,375	2,590 x 2,465	2,652 x 2,583	2,652 x 2,485	2,680	2,955	3,135	2,590	2,490	2,325	2,375
2,500 x 2,500	2,590 x 2,590	2,652 x 2,708	2,652 x 2,610	2,680	3,080	3,260	2,715	2,615	2,450	2,500
2,500 x 2,750	2,590 x 2,840	2,652 x 2,958	2,652 x 2,860	2,680	3,330	3,510	2,965	2,865	2,700	2,750
2,625 x 2,125	2,715 x 2,215	2,777 x 2,333	2,777 x 2,235	2,805	2,705	2,885	2,340	2,240	2,075	2,125
2,750 x 2,000	2,840 x 2,090	2,902 x 2,208	2,902 x 2,110	2,930	2,580	2,760	2,215	2,115	1,950	2,000
2,750 x 2,125	2,840 x 2,215	2,902 x 2,333	2,902 x 2,235	2,930	2,705	2,885	2,340	2,240	2,075	2,125
2,750 x 2,250	2,840 x 2,340	2,902 x 2,458	2,902 x 2,360	2,930	2,830	3,010	2,465	2,365	2,200	2,250
3,000 x 2,000	3,090 x 2,090	3,152 x 2,208	3,152 x 2,110	3,180	2,580	2,760	2,215	2,115	1,950	2,000
3,000 x 2,125	3,090 x 2,215	3,152 x 2,333	3,152 x 2,235	3,180	2,705	2,885	2,340	2,240	2,075	2,125
3,000 x 2,250	3,090 x 2,340	3,152 x 2,458	3,152 x 2,360	3,180	2,830	3,010	2,465	2,365	2,200	2,250
3,000 x 2,375	3,090 x 2,465	3,152 x 2,583	3,152 x 2,485	3,180	2,955	3,135	2,590	2,490	2,325	2,375
3,000 x 2,500	3,090 x 2,590	3,152 x 2,708	3,152 x 2,610	3,180	3,080	3,260	2,715	2,615	2,450	2,500
3,000 x 3,000	3,090 x 3,090	3,152 x 3,208	3,152 x 3,110	3,180	3,080	3,260	3,215	3,115	2,950	3,000
3,250 x 2,000	3,340 x 2,090	3,402 x 2,208	3,402 x 2,110	3,430	3,580	3,760	2,215	2,115	1,950	2,000
3,250 x 2,125	3,340 x 2,215	3,402 x 2,333	3,402 x 2,235	3,430	2,580	2,885	2,340	2,240	2,075	2,125
3,250 x 2,250	3,340 x 2,340	3,402 x 2,458	3,402 x 2,360	3,430	2,705	3,010	2,465	2,365	2,200	2,250
3,500 x 2,000	3,590 x 2,090	3,652 x 2,208	3,652 x 2,110	3,680	2,830	2,760	2,215	2,115	1,950	2,000
3,000 x 2,125	3,590 x 2,215	3,652 x 2,333	3,652 x 2,235	3,680	2,580	2,885	2,340	2,240	2,075	2,125
3,500 x 2,250	3,590 x 2,340	3,652 x 2,458	3,652 x 2,360	3,680	2,705	3,010	2,465	2,365	2,200	2,250
3,750 x 2,000	3,840 x 2,090	3,902 x 2,208	3,902 x 2,110	3,930	2,580	2,760	2,215	2,115	1,950	2,000
3,750 x 2,125	3,840 x 2,215	3,902 x 2,333	3,902 x 2,235	3,930	2,705	2,885	2,340	2,240	2,075	2,125
3,750 x 2,250	3,840 x 2,340	3,902 x 2,458	3,902 x 2,360	3,930	2,830	3,010	2,465	2,365	2,200	2,250
4,000 x 2,000	4,090 x 2,090	4,152 x 2,208	4,152 x 2,110	4,180	2,580	2,760	2,215	2,115	1,950	2,000
4,000 x 2,125	4,090 x 2,215	4,152 x 2,333	4,152 x 2,235	4,180	2,705	2,885	2,340	2,240	2,075	2,125
4,000 x 2,250	4,090 x 2,340	4,152 x 2,458	4,152 x 2,360	4,180	2,830	3,010	2,465	2,365	2,200	2,250
4,250 x 2,000	4,340 x 2,090	4,402 x 2,208	4,402 x 2,110	4,430	2,580	2,760	2,215	2,115	1,950	2,000
4,250 x 2,125	4,340 x 2,215	4,402 x 2,333	4,402 x 2,235	4,430	2,705	2,885	2,340	2,240	2,075	2,125
4,250 x 2,250	4,340 x 2,340	4,402 x 2,458	4,402 x 2,360	4,430	2,830	3,010	2,465	2,365	2,200	2,250
4,500 x 2,000	4,590 x 2,090	4,652 x 2,208	4,652 x 2,110	4,680	2,580	2,760	2,215	2,115	1,950	2,000
4,500 x 2,125	4,590 x 2,215	4,652 x 2,333	4,652 x 2,235	4,680	2,705	2,885	2,340	2,240	2,075	2,125
4,500 x 2,250	4,590 x 2,340	4,652 x 2,458	4,652 x 2,360	4,680	2,830	3,010	2,465	2,365	2,200	2,250
4,750 x 2,000	4,840 x 2,090	4,902 x 2,208	4,902 x 2,110	4,930	2,580	2,760	2,215	2,115	1,950	2,000
4,750 x 2,125	4,840 x 2,215	4,902 x 2,333	4,902 x 2,235	4,930	2,705	2,885	2,340	2,240	2,075	2,125
4,750 x 2,250	4,840 x 2,340	4,902 x 2,458	4,902 x 2,360	4,930	2,830	3,010	2,465	2,365	2,200	2,250
5,000 x 2,000	5,090 x 2,090	5,152 x 2,208	5,152 x 2,110	5,180	2,580	2,760	2,215	2,115	1,950	2,000
5,000 x 2,125	5,090 x 2,215	5,152 x 2,333	5,152 x 2,235	5,180	2,705	2,885	2,340	2,240	2,075	2,125
5,000 x 2,250	5,090 x 2,340	5,152 x 2,458	5,152 x 2,360	5,180	2,830	3,010	2,465	2,365	2,200	2,250
5,500 x 2,000	5,590 x 2,090	5,652 x 2,208	5,652 x 2,110	5,680	2,580	2,760	2,215	2,115	1,950	2,000
5,500 x 2,125	5,590 x 2,215	5,652 x 2,333	5,652 x 2,235	5,680	2,705	2,885	2,340	2,240	2,075	2,125

All dimensions in mm.