



MAXIVERANDA
PERGOLA & GLASS SYSTEMS

TECHNICAL CATALOGUE

TILT-TO-CLEAN

Guillotine glass system

Motorised vertical sliding glass with an inner panel that tilts in for cleaning.

MAX. SIZE

3500 × 3000

Width × height in mm

GLASS

8 · 10 · 20 mm

Tempered single glass or IGU

DRIVE

Chain or belt

Tubular motor in the top box

**THE SYSTEM**

A guillotine glass system you clean from inside

Panels lower to open; the inner panel tilts in for cleaning

The tilt-to-clean guillotine system is a motorised vertical sliding glass system for balconies, terraces, winter gardens and restaurant fronts. Three glass panels run in parallel tracks inside the V.GY.101 frame jamb.

Lowered, the upper and middle panels stack behind the inner panel and leave the opening free above a glass balustrade topped by the V.GY.208 handrail cap. Raised, the panels close the opening from sill to motor box.

For cleaning, the inner panel tilts in on its bottom blocks, so both sides of the glass can be reached from the room.

Tilt-to-clean inner panel

Tilts in on its bottom blocks, held by GY-26 stays

Chain or belt drive

Tubular motor and GY-18 tube in the V.GY.104 box

Up to 3500 × 3000 mm

Maximum width × maximum height

8 or 10 mm glass, or 20 mm IGU

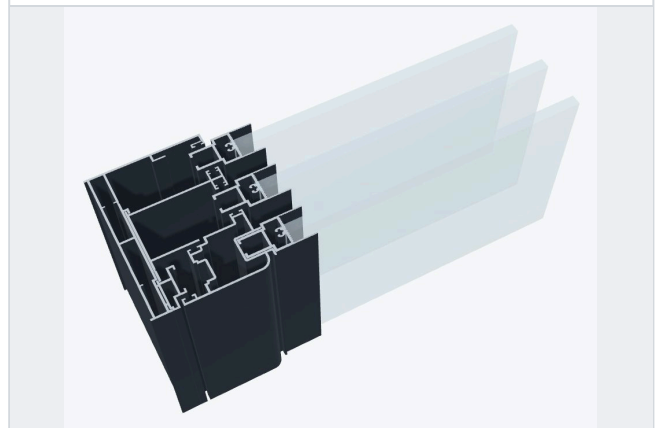
Tempered single glass, or 4 + 12 + 4 mm

Handrail when open

The V.GY.208 cap tops the lowered panels

RAL 7016 textured or RAL 9016 white

Powder-coated EN AW-6063 profiles

1 Panels closed**2 Panels lowered, stacked****3 Inner panel tilted for cleaning****4 Jamb and panel tracks, 3D section**



COMPONENTS

Profiles of the tilt-to-clean system

Twenty-two extrusions make up the frame, the motor box and the glass panels

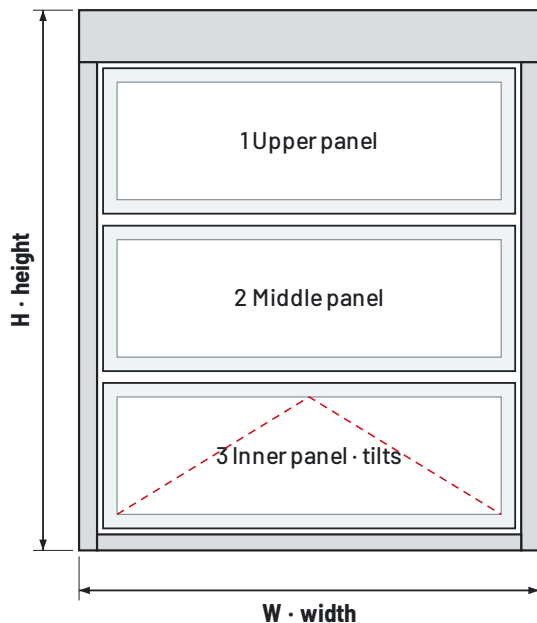
3D	CODE	PROFILE	SIZE (MM)	KG/M	PAGE
FRAME AND SILL					
	V.GY.101	Frame jamb profile Side frame carrying the three panel tracks	118.7 × 85	1.650	05
	V.GY.201	Jamb track insert Forms the panel tracks inside the jamb	59.5 × 69.8	0.830	05
	V.GY.202	Jamb cover profile Closes the jamb on the room side	48.3 × 71.4	0.993	05
	V.GY.205	Sill profile Bottom frame between the jambs	118.6 × 28.4	1.561	05
MOTOR BOX					
	V.GY.104	Motor box profile Houses the motor tube and the drive	125.3 × 143.2	2.430	06
	V.GY.105	Motor box cover Closes the motor box on the room side	19.8 × 137.8	0.837	06
	2458	Motor box trim channel Small channel on the motor box cover	7.9 × 12	0.065	06
	V.GY.111	Drip profile Sheds rainwater off the motor box	25.7 × 24.4	0.237	06
	V.GY.110	Side cover profile Snap-in cover for the jamb channel	24.4 × 5.3	0.100	06
GLASS PANELS					
	V.GY.103	Sash stile profile Vertical edge of each glass panel	49 × 24.5	0.706	07
	V.GY.207	Top rail profile Top rail of the upper panel, bottom rail of the inner panel	28.5 × 32	0.575	07
	V.GY.208	Top rail cap, moving Handrail cap on the upper panel	106.9 × 12.8	0.573	08
	V.ES.109	Interlock rail profile Links the panels as they travel	36 × 32	0.606	07
	V.ES.112	Interlock insert Insert in the interlock and handle rails	30.4 × 11.6	0.130	07
	V.GY.206	Handle rail profile Top rail of the inner panel, with grip	69.2 × 32	0.890	07
	V.GY.209	Middle bottom rail Bottom rail of the middle panel	36 × 32	0.655	07
TILTING INNER PANEL					
	V.GY.203	Tilt sash profile Side frame of the tilting inner panel	48.3 × 67.2	1.122	08
	V.GY.204	Tilt frame profile Fixed frame the inner panel tilts from	30.5 × 14.5	0.342	08
GLAZING BEADS					
	V.ES.115	Glazing bead, 8 mm glass For 8 mm glass, wide	24.6 × 16.9	0.178	08
	V.ES.116	Glazing bead, 8 mm glass For 8 mm glass, narrow	21.6 × 16.9	0.169	08
	V.ES.103	Glazing bead, 10 mm glass For 10 mm glass, narrow	21.6 × 16.9	0.174	08
	V.ES.104	Glazing bead, 10 mm glass For 10 mm glass, wide	24.6 × 16.9	0.176	08



SIZES AND OPTIONS

How the system is measured and specified

Frame size, glass, drive and colour



W – width

Overall frame width, outside of jamb to outside of jamb.
Maximum 3500 mm.

H – height

Overall frame height, underside of the V.GY.205 sill to the top of the V.GY.104 motor box. Maximum 3000 mm.

Three panels, three tracks

Upper and middle panels travel; the inner panel stays at the bottom and tilts in for cleaning.

Opening

The upper and middle panels lower behind the inner panel. The V.GY.208 cap becomes the handrail.

Glass

8 mm

Tempered single glass

Beads V.ES.115 / V.ES.116

10 mm

Tempered single glass

Beads V.ES.103 / V.ES.104

20 mm

Insulated glass unit

4 + 12 + 4 mm, tempered

Drive

Both drives lift from the GY-15 holder on the upper panel; the tubular motor sits in the V.GY.104 box

Chain drive

GY-11 sprocket on the GY-18 tube, GY-14 chain in each jamb, GY-13 chain guide

Belt drive

GY-16 pulley on the GY-18 tube, GY-17 belt in each jamb

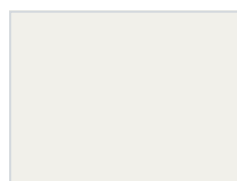
Colours

Electrostatic powder coating, 60–80 µm



RAL 7016 Anthracite

Textured finish
Standard colour



RAL 9016 White

Traffic white
Standard colour

Colours are approximate in print and on screen; confirm with a RAL colour card or a sample.



PROFILES · FRAME AND SILL

Frame jamb, track insert, jamb cover and sill

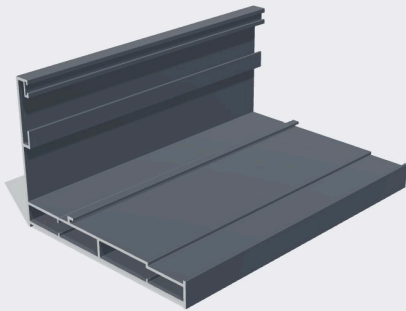
The fixed frame that carries the three panel tracks

V.GY.101 Frame jamb profile

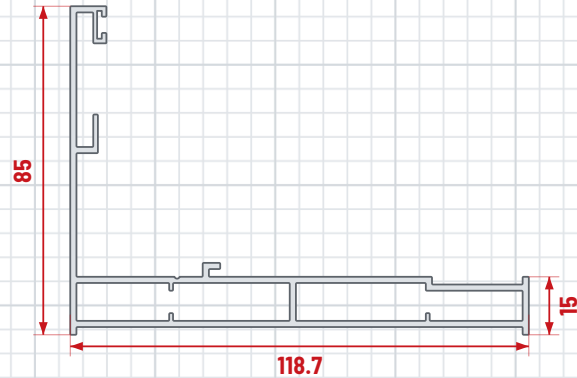
118.7 × 85 mm · Side frame carrying the three panel tracks

1.650 kg/m

3D



2D · MM

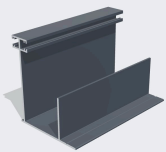
**V.GY.201** Jamb track insert

59.5 × 69.8 mm

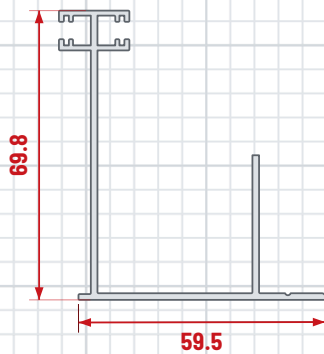
Forms the panel tracks inside the jamb

0.830 kg/m

3D



2D · MM

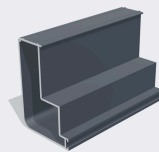
**V.GY.202** Jamb cover profile

48.3 × 71.4 mm

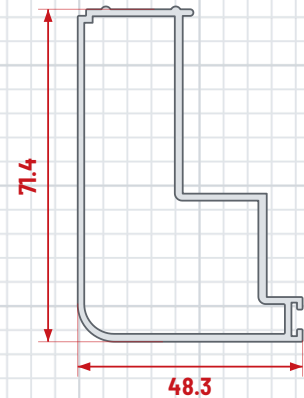
Closes the jamb on the room side

0.993 kg/m

3D



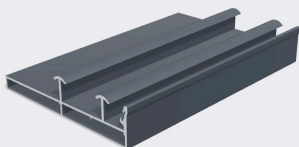
2D · MM

**V.GY.205** Sill profile

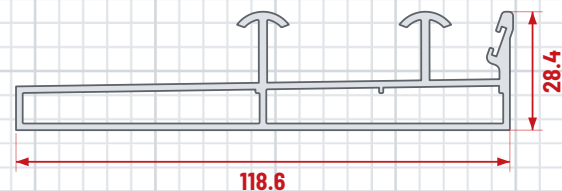
118.6 × 28.4 mm · Bottom frame between the jambs

1.561 kg/m

3D



2D · MM





PROFILES · MOTOR BOX

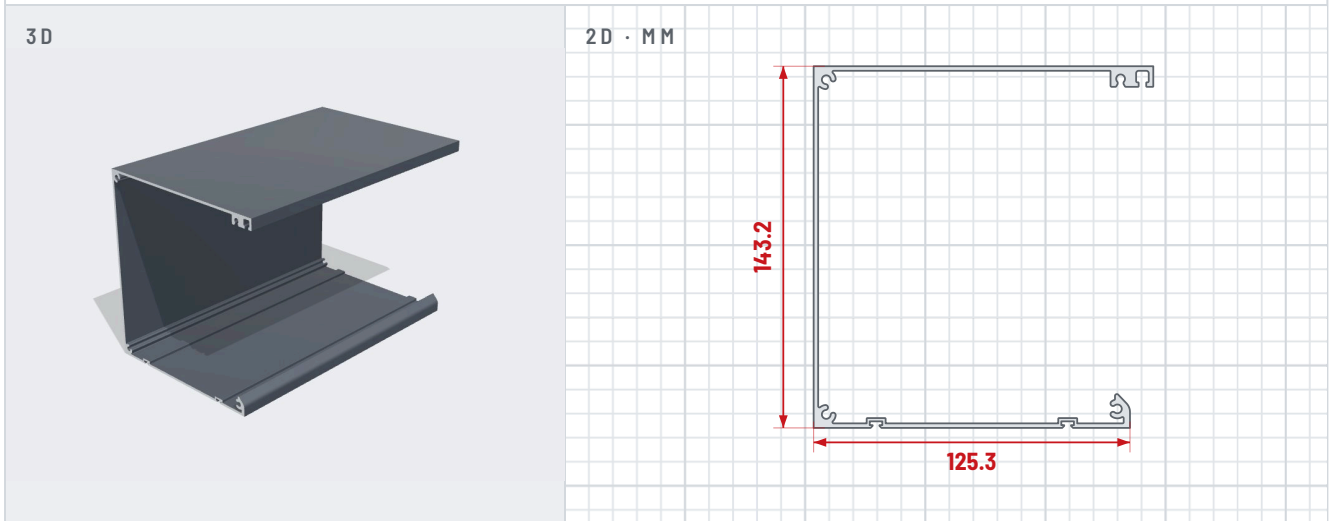
Motor box, cover, trim and drip profiles

The top box houses the tube, the drive and the chain or belt

V.GY.104 Motor box profile

125.3 × 143.2 mm · Houses the motor tube and the drive

2.430 kg/m

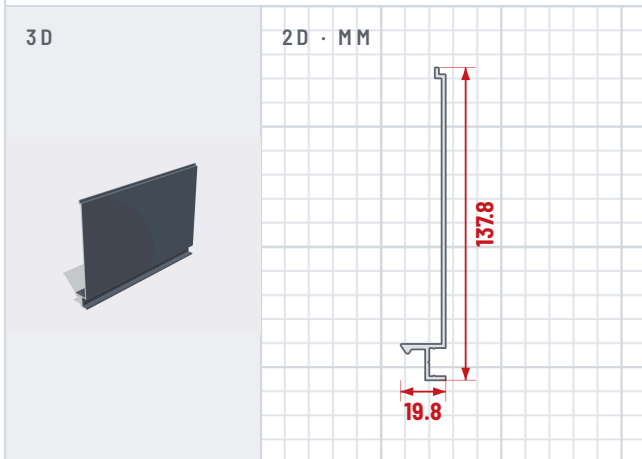


V.GY.105 Motor box cover

19.8 × 137.8 mm

Closes the motor box on the room side

0.837 kg/m

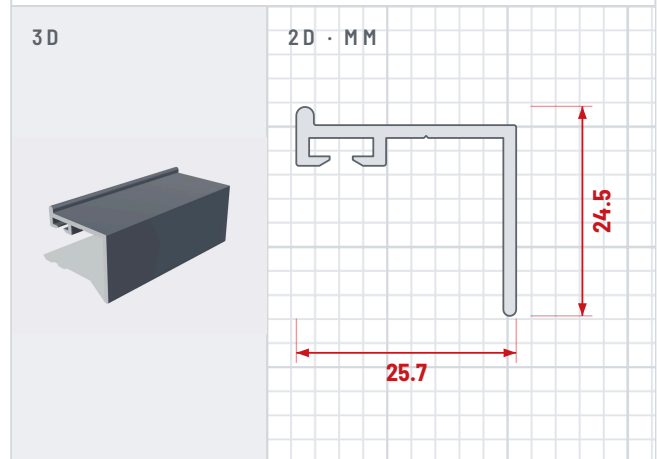


V.GY.111 Drip profile

25.7 × 24.4 mm

Sheds rainwater off the motor box

0.237 kg/m

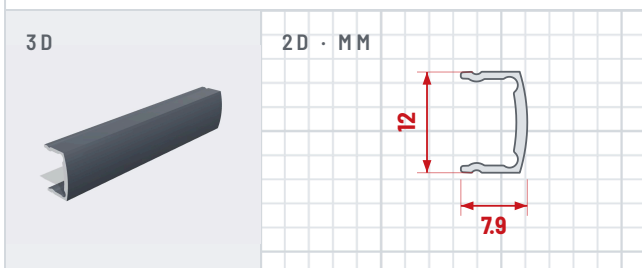


2458 Motor box trim channel

7.9 × 12 mm

Small channel on the motor box cover

0.065 kg/m

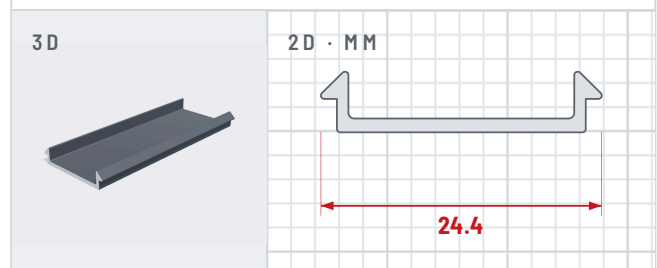


V.GY.110 Side cover profile

24.4 × 5.3 mm

Snap-in cover for the jamb channel

0.100 kg/m




PROFILES · PANEL RAILS

Stiles, rails and interlocks of the glass panels

Every panel is framed by a stile on each side and a rail top and bottom

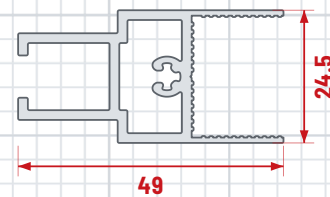
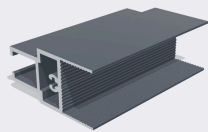
V.GY.103 Sash stile profile
0.706 kg/m

49 × 24.5 mm

Vertical edge of each glass panel

3D

2D · MM

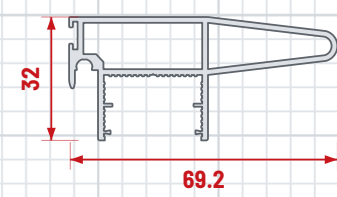
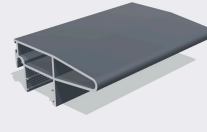

V.GY.206 Handle rail profile
0.890 kg/m

69.2 × 32 mm

Top rail of the inner panel, with grip

3D

2D · MM

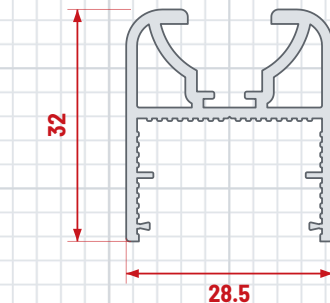
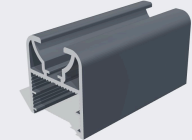

V.GY.207 Top rail profile
0.575 kg/m

28.5 × 32 mm

Top rail of the upper panel, bottom rail of the inner panel

3D

2D · MM

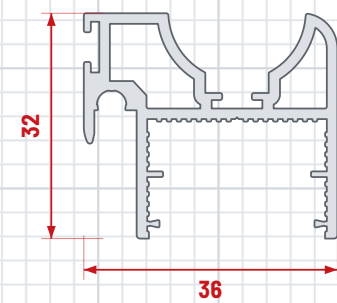
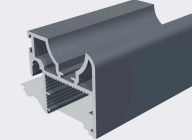

V.GY.209 Middle bottom rail
0.655 kg/m

36 × 32 mm

Bottom rail of the middle panel

3D

2D · MM

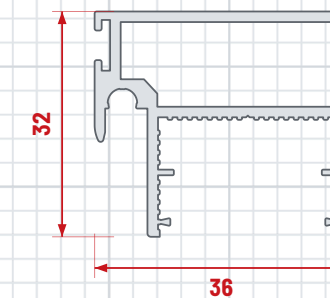
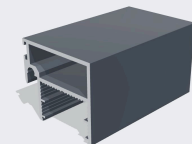

V.ES.109 Interlock rail profile
0.606 kg/m

36 × 32 mm

Links the panels as they travel

3D

2D · MM

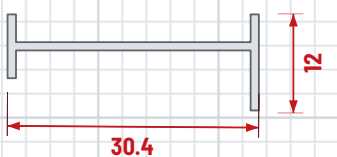
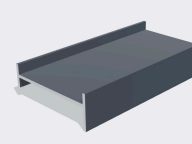

V.ES.112 Interlock insert
0.130 kg/m

30.4 × 11.6 mm

Insert in the interlock and handle rails

3D

2D · MM




PROFILES · CAP, TILT PANEL AND BEADS

Handrail cap, tilt profiles and glazing beads

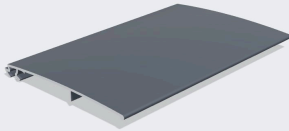
The inner panel tilts from its own frame; beads hold 8 or 10 mm glass

V.GY.208 Top rail cap, moving

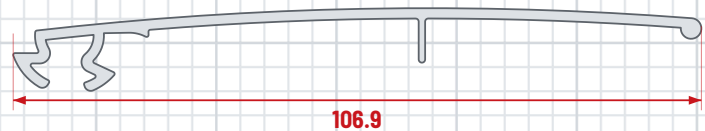
106.9 × 12.8 mm · Handrail cap on the upper panel

0.573 kg/m

3D



2D · MM

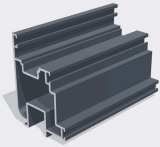

V.GY.203 Tilt sash profile

48.3 × 67.2 mm

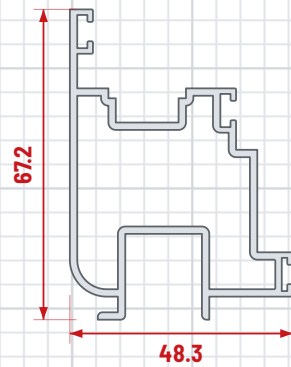
Side frame of the tilting inner panel

1.122 kg/m

3D



2D · MM

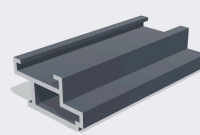

V.GY.204 Tilt frame profile

30.5 × 14.5 mm

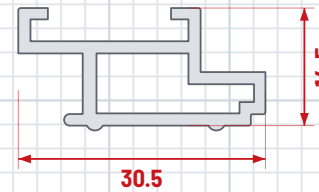
Fixed frame the inner panel tilts from

0.342 kg/m

3D



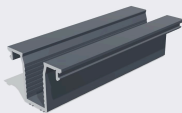
2D · MM


V.ES.115
0.178 kg/m

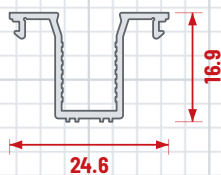
Bead 8 mm

24.6 × 16.9 mm

3D



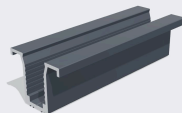
2D · MM


V.ES.116
0.169 kg/m

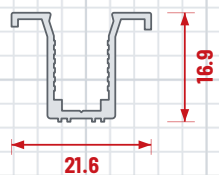
Bead 8 mm

21.6 × 16.9 mm

3D



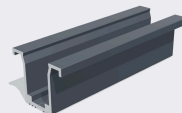
2D · MM


V.ES.103
0.174 kg/m

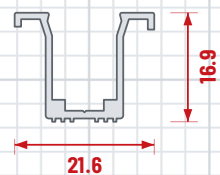
Bead 10 mm

21.6 × 16.9 mm

3D



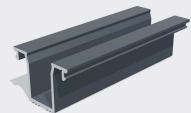
2D · MM


V.ES.104
0.176 kg/m

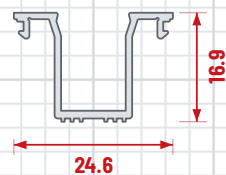
Bead 10 mm

24.6 × 16.9 mm

3D



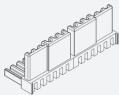
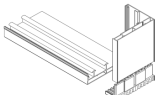
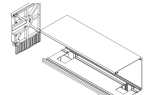
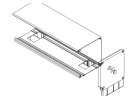
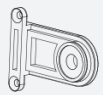
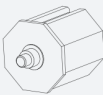
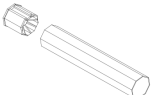
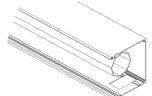
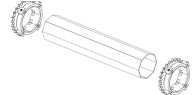
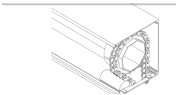
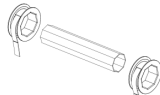
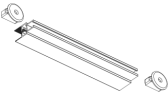
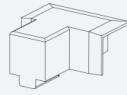
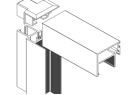
2D · MM




ACCESSORIES · MOTOR BOX AND DRIVE

Frame, motor box, drive and panel parts

The parts that close the box, turn the tube and lift the panels

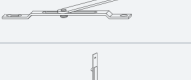
CODE	PART	DESCRIPTION	IN USE	WHERE USED	PACK
GY-01		Frame corner block, PVC		Joins the V.GY.205 sill to the jambs	2 pcs
GY-02		Motor-side end cap, PVC		Closes the motor box on the motor side	1 pc
GY-03		Idle-side end cap, PVC		Closes the motor box on the idle side	1 pc
GY-04		Bearing housing		Carries the tube on the idle-side end cap	1 pc
GY-05		Tube end plug, aluminium		Idle end of the GY-18 motor tube	1 pc
GY-18		Motor tube		Octagonal tube inside the V.GY.104 motor box	1 pc
GY-11		Chain sprocket		On the motor tube, one per side	2 pcs
GY-13		Chain guide		Leads the chain from the box into the jamb	2 pcs
GY-14		Chain, 2.5 m		Chain drive, one per side	2 pcs
GY-16		Belt pulley		Belt drive option, on the motor tube	2 pcs
GY-17		Belt, 2.5 m		Belt drive option, one per side	2 pcs
GY-15		Chain and belt holder		Connects the chain or belt to the top panel	2 pcs
GY-07		Centring block, PVC		Guides the panels in the jamb tracks	8 pcs
GY-08		Interlock rail end cap, PVC		Ends of the V.ES.109 interlock rail	2L + 2R



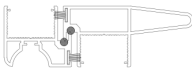
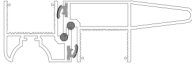
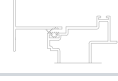
ACCESSORIES · TILT HARDWARE AND SEALS

Tilt hardware, end caps, gaskets and seals

The parts that let the inner panel tilt, and the seals between the panels

CODE	PART	DESCRIPTION	IN USE	WHERE USED	PACK
GY-19		Tilt bottom block, PVC		Bottom pivot of the tilting panel	1L + 1R
GY-20		Tilt frame bottom block		Bottom of the V.GY.204 tilt frame	1L + 1R
GY-21		Handle rail end cap		Ends of the V.GY.206 handle rail	2 pcs
GY-22		Tilt top cap		Top of the tilt frame	1L + 1R
GY-23		Middle tilt bottom block		Bottom of the middle panel	1L + 1R
GY-24		Top rail block		Ends of the V.GY.207 top rail	2 pcs
GY-25		Tilt handle		Releases the panel for tilting	2 pcs
GY-26		Tilt stay		Limits the tilt opening	2 pcs
GY-27		Espagnolette lock		Locks the tilting panel	2 pcs

Gaskets and seals

CODE	PART	DESCRIPTION	IN USE	WHERE USED	SUPPLY
Z-94		EPDM motor box gasket		Seals the moving top cap under the motor box	65 g/m · 153 m roll
LS55520		Brush seal, 7 mm		Jamb tracks and panel rails	400 m / pack
ZF-1		Flock seal		Handle rail, alternative to the brush seal	200 m / pack
Z-63		EPDM sash gasket		Tilt sash to tilt frame	40 g/m · 200 m roll
W55.511		EPDM interlock cord, Ø4		Interlock rails	16 g/m · 609 m roll

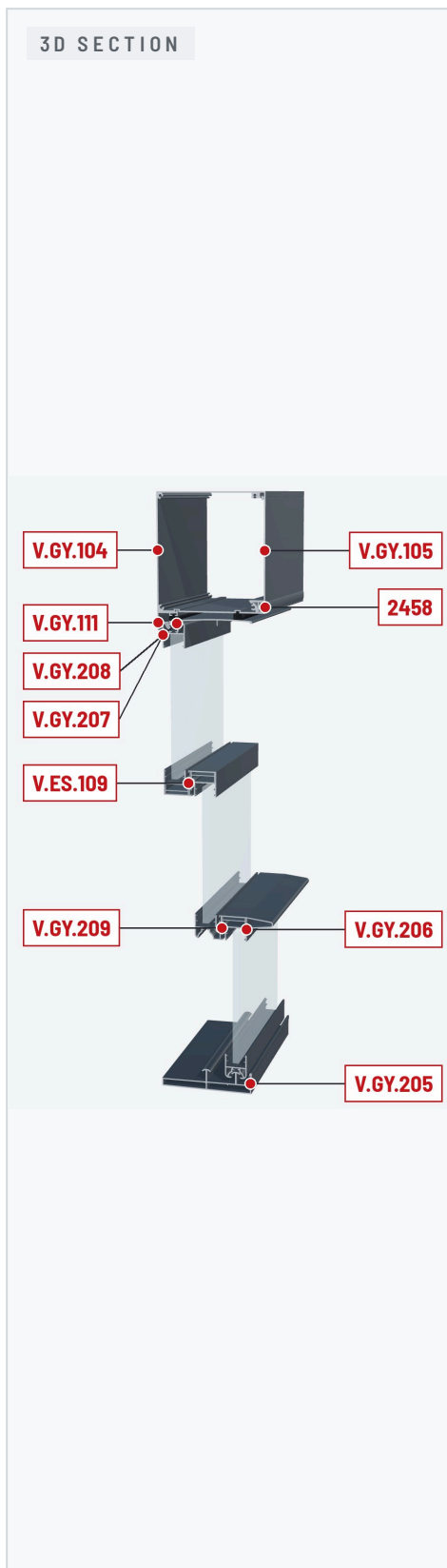
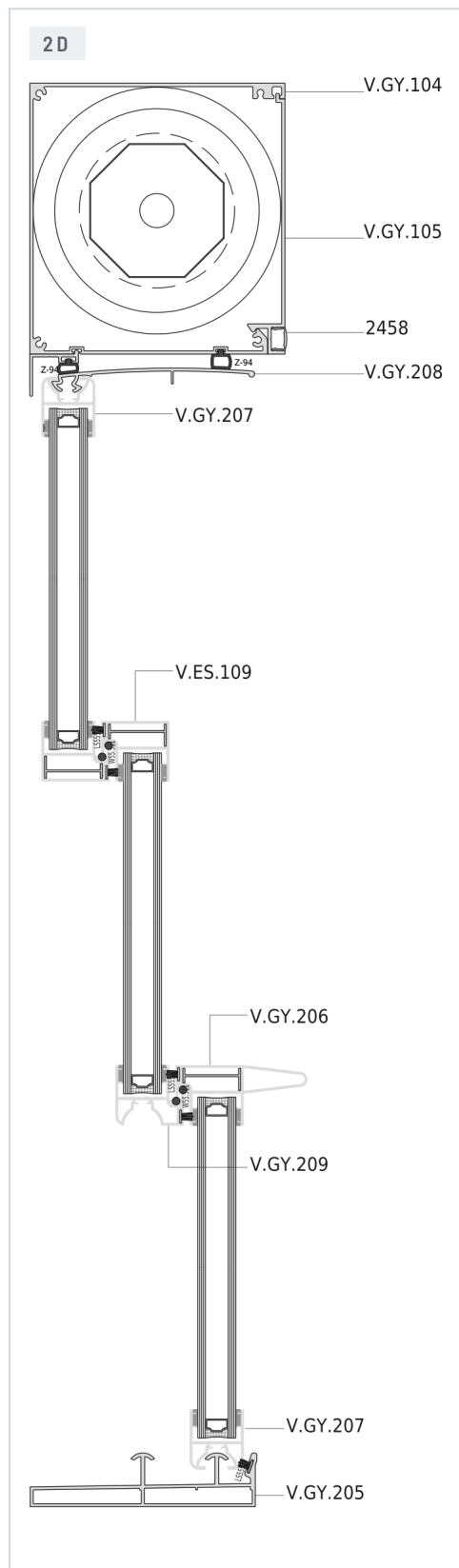


DETAIL 1

Vertical section, panels closed

Section through the whole height

Raised, the three panels close the opening from sill to motor box. Interlock rails link the panels; the V.GY.208 cap seals against the Z-94 gasket under the box.



IN THIS DETAIL

	V.GY.104 Motor box
	V.GY.105 Box cover
	V.GY.111 Drip profile
	V.GY.208 Top cap
	V.GY.207 Top rail
	V.ES.109 Interlock rail
	V.GY.206 Handle rail
	V.GY.209 Middle rail
	V.GY.205 Sill

Left: section through the closed system. Right: 3D slice cut across the width (panel heights shortened).

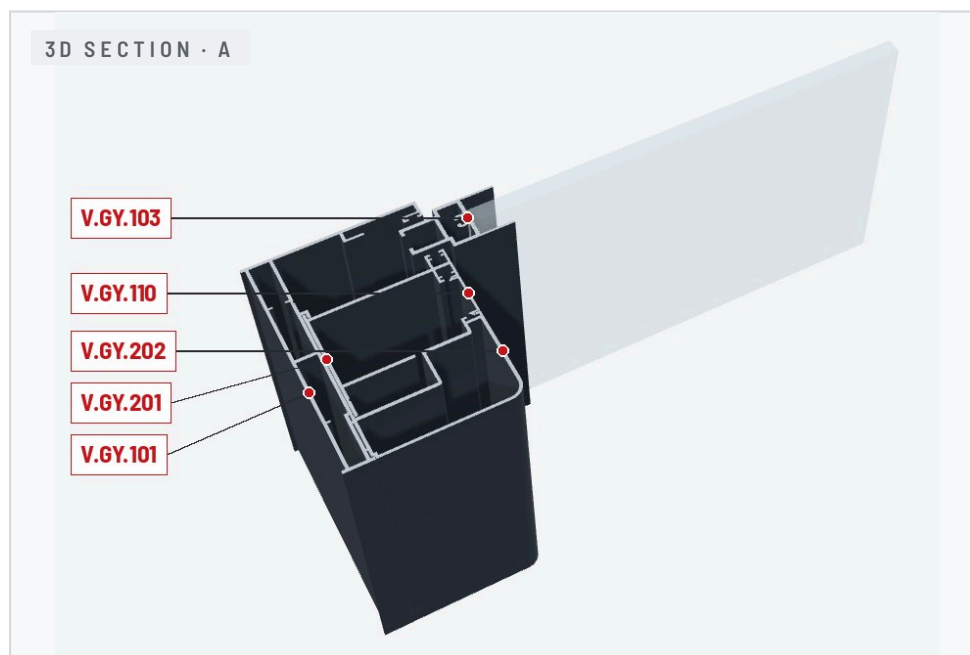
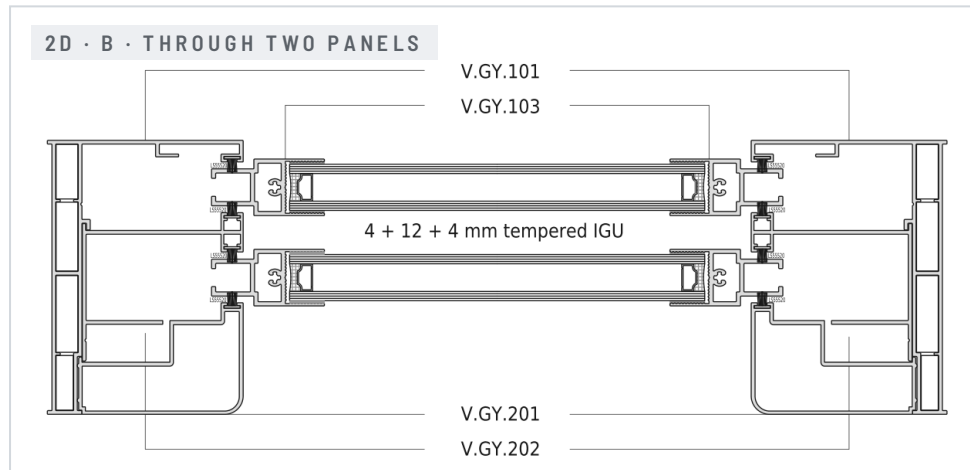
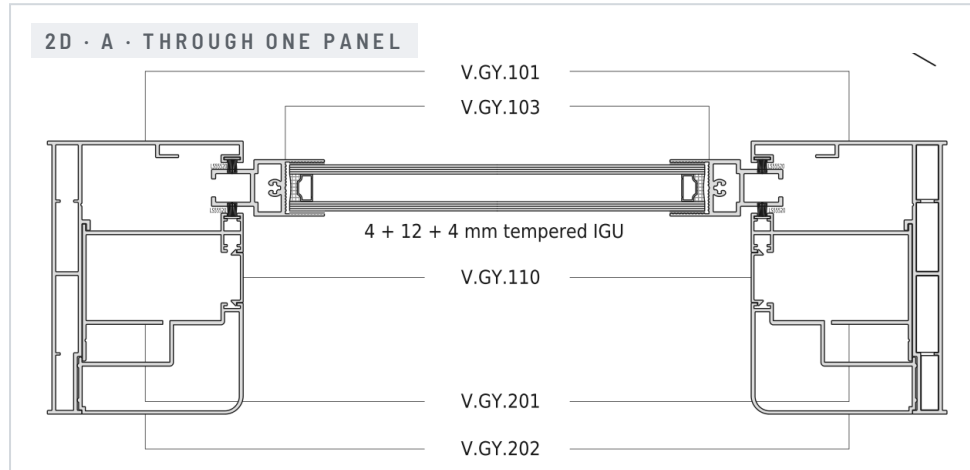


DETAIL 2

Horizontal sections

Jamb, tracks and panel edges

Each V.GY.101 jamb carries the V.GY.201 track insert and the V.GY.202 cover. The panel stiles run in their own tracks, sealed by brush seals on both sides.



IN THIS DETAIL

	V.GY.101 Frame jamb
	V.GY.201 Track insert
	V.GY.202 Jamb cover
	V.GY.110 Side cover
	V.GY.103 Sash stile
	LS55520 Brush seal, 7 mm
	W55.511 EPDM interlock cord, Ø4

3D slice across the jamb through the upper panel.

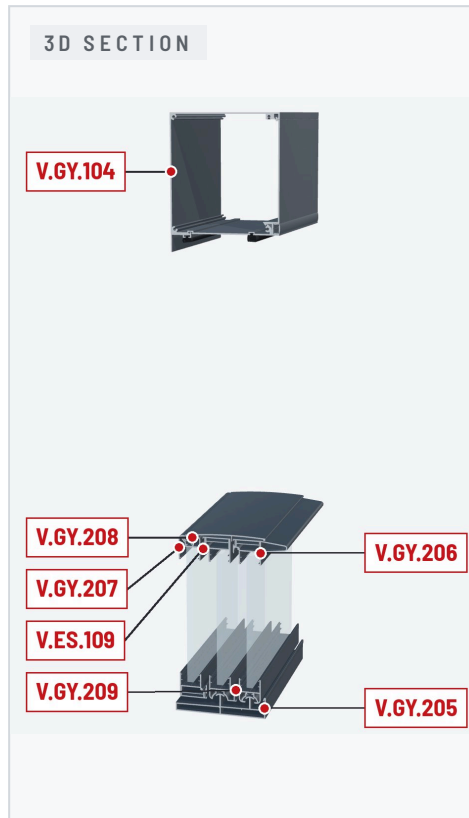
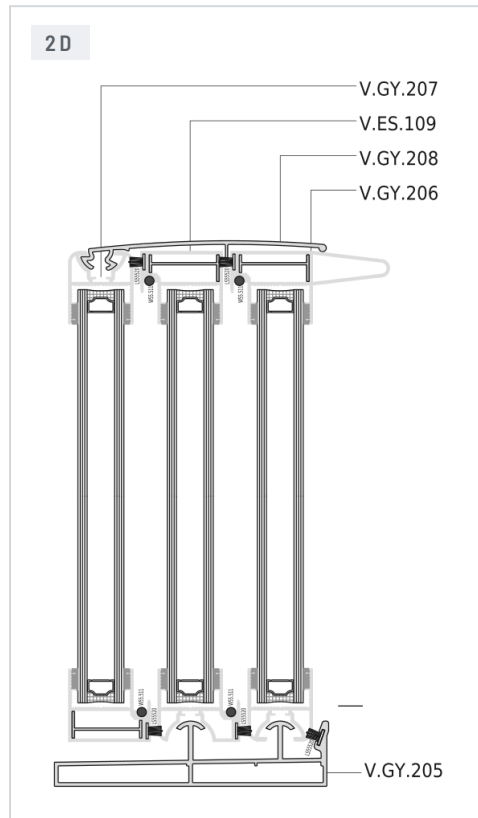


DETAIL 3

Panels lowered

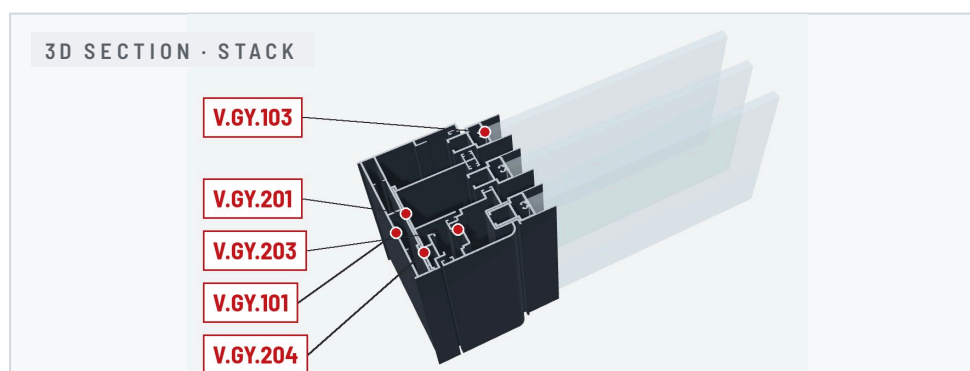
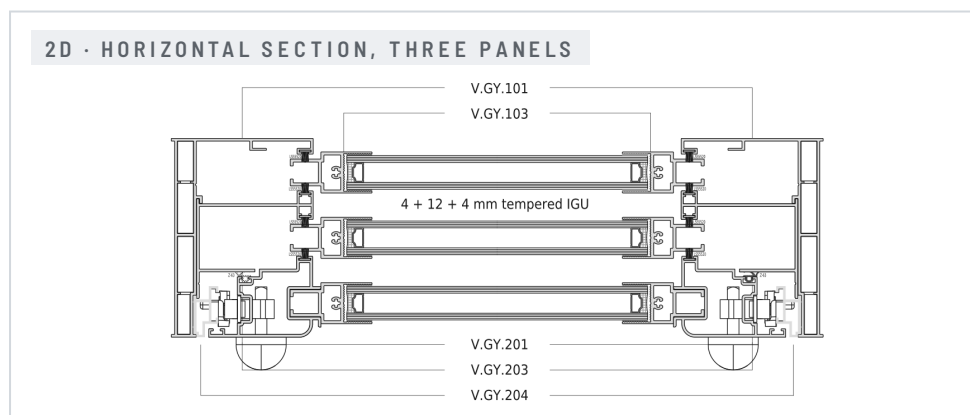
Sections with the panels stacked

Lowered, the upper and middle panels stand behind the inner panel. The V.GY.208 cap on the upper panel forms the handrail; brush or flock seals close the gaps between the rails.



IN THIS DETAIL

	V.GY.208 Top cap
	V.GY.207 Top rail
	V.ES.109 Interlock rail
	V.GY.206 Handle rail
	V.GY.209 Middle rail
	V.GY.203 Tilt sash
	V.GY.204 Tilt frame
	V.GY.101 Frame jamb
	V.GY.205 Sill
	LS55520 Brush seal, 7 mm
	ZF-1 Flock seal



Panels lowered to balustrade height, stacked behind the inner panel. Flock seal ZF-1 can replace the brush seal LS55520.



DETAIL 4

Frame and motor box

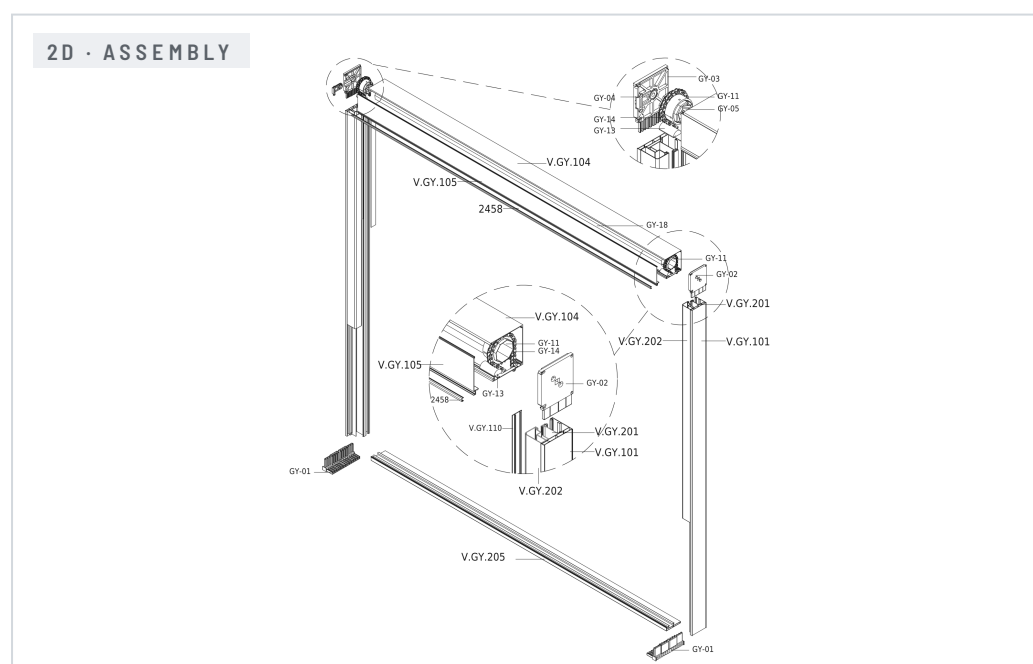
Assembly of the fixed frame

The V.GY.104 motor box sits on the two jambs; the GY-02 and GY-03 end caps close it and carry the tube. The sill joins the jambs with GY-01 corner blocks.



IN THIS DETAIL

	V.GY.101 Frame jamb
	V.GY.201 Track insert
	V.GY.202 Jamb cover
	V.GY.205 Sill
	V.GY.104 Motor box
	V.GY.105 Box cover
	2458 Trim channel
	V.GY.111 Drip profile
	V.GY.110 Side cover
	GY-01 Frame corner block, PVC
	GY-02 Motor-side end cap, PVC
	GY-03 Idle-side end cap, PVC



Exploded 3D view of the left corner of the frame; the 2D drawing shows the drive ends enlarged.

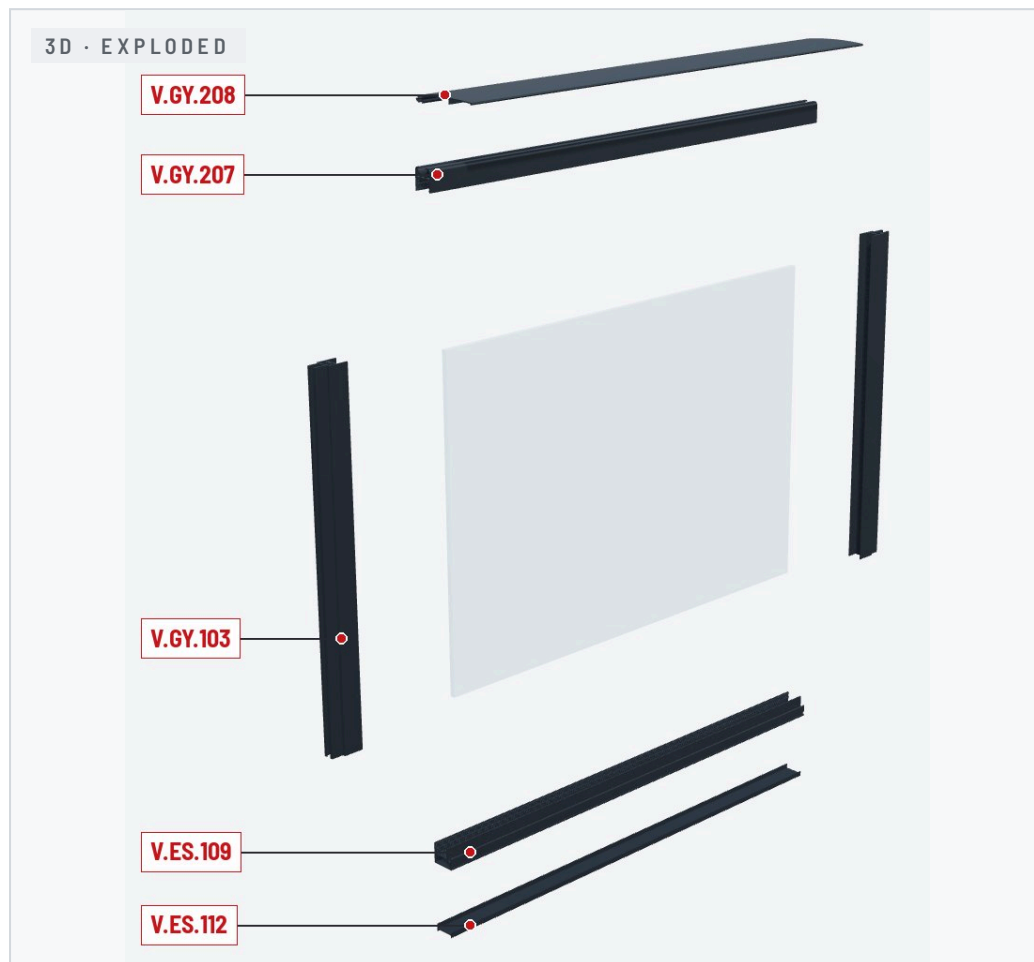


DETAIL 5

Upper panel

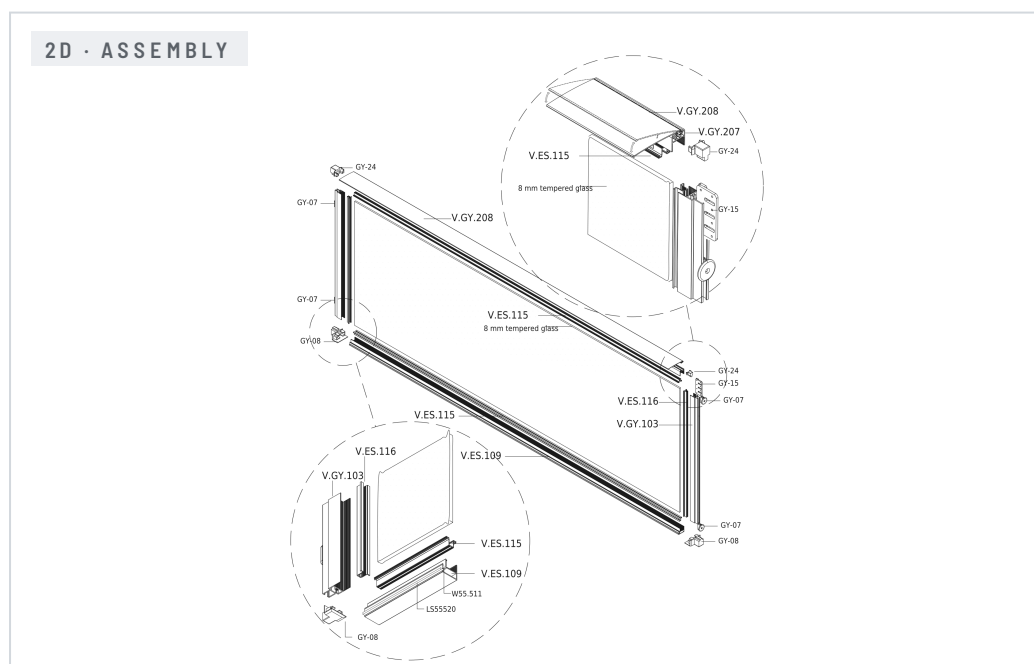
Assembly of the outer, upper panel

The upper panel carries the V.GY.207 top rail with the moving V.GY.208 cap, and the V.ES.109 interlock rail at the bottom. The GY-15 holder connects it to the chain or belt.



IN THIS DETAIL

	V.GY.208 Top cap
	V.GY.207 Top rail
	V.ES.109 Interlock rail
	V.ES.112 Interlock insert
	V.GY.103 Sash stile
	V.ES.115 Bead 8 mm
	V.ES.116 Bead 8 mm
	GY-15 Chain and belt holder
	GY-07 Centring block, PVC
	GY-08 Interlock rail end cap, PVC
	GY-24 Top rail block



Exploded 3D view of the upper panel; the 2D drawing shows both corners with their accessories.



DETAIL 6

Middle panel

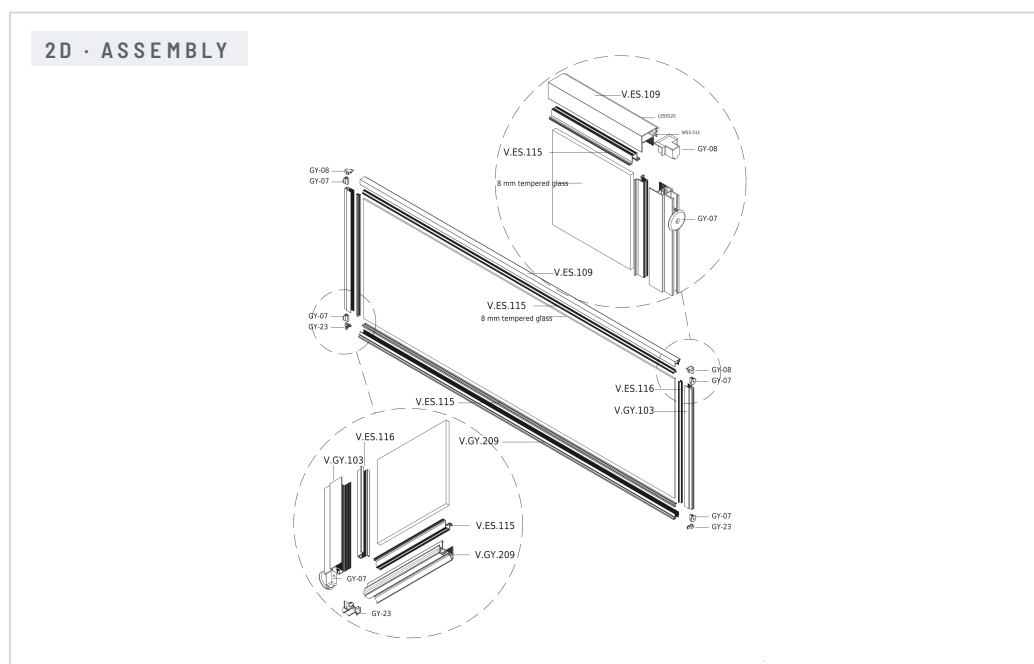
Assembly of the middle panel

The middle panel hangs from the V.ES.109 interlock rail and closes on the V.GY.209 middle bottom rail. GY-07 centring blocks guide it in its track.



IN THIS DETAIL

	V.ES.109 Interlock rail
	V.ES.112 Interlock insert
	V.GY.209 Middle rail
	V.GY.103 Sash stile
	V.ES.115 Bead 8 mm
	V.ES.116 Bead 8 mm
	GY-07 Centring block, PVC
	GY-08 Interlock rail end cap, PVC
	GY-23 Middle tilt bottom block
	LS55520 Brush seal, 7 mm
	W55.511 EPDM interlock cord, Ø4



Exploded 3D view of the middle panel; the 2D drawing shows both corners with their accessories.

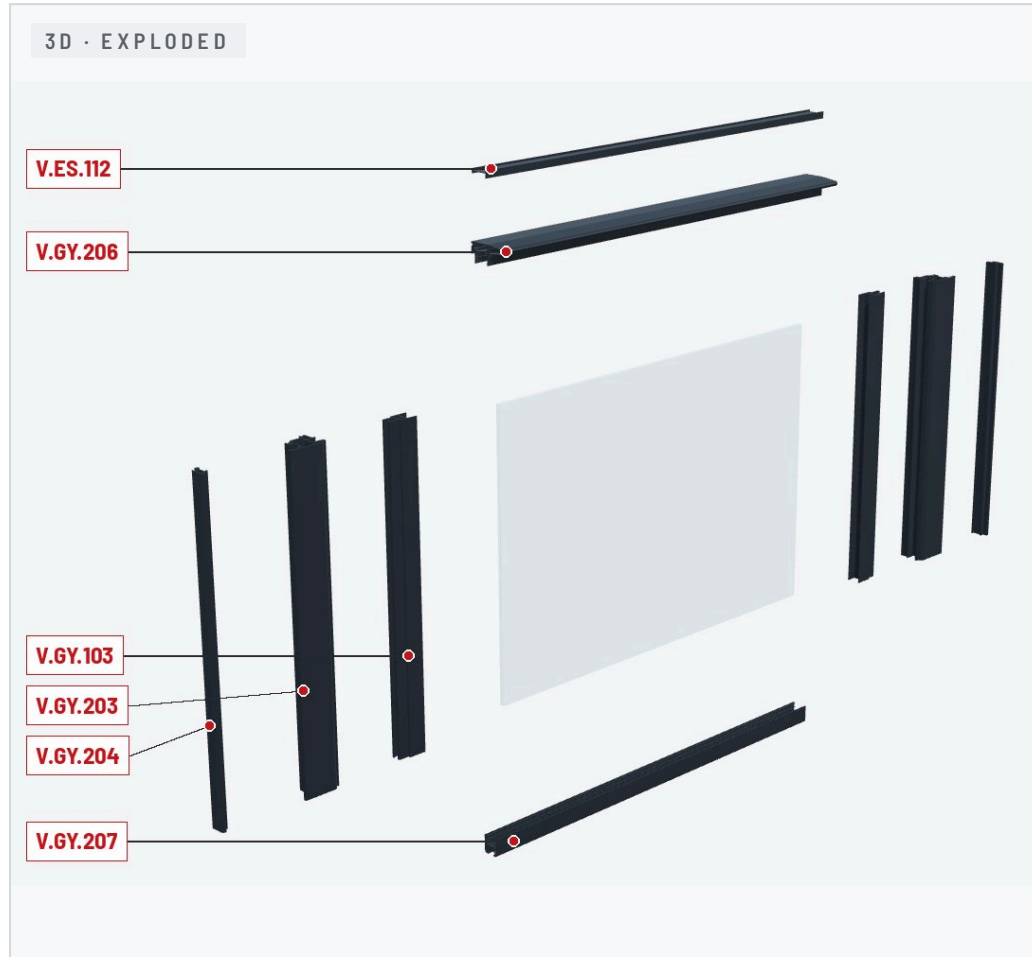


DETAIL 7

Inner tilting panel

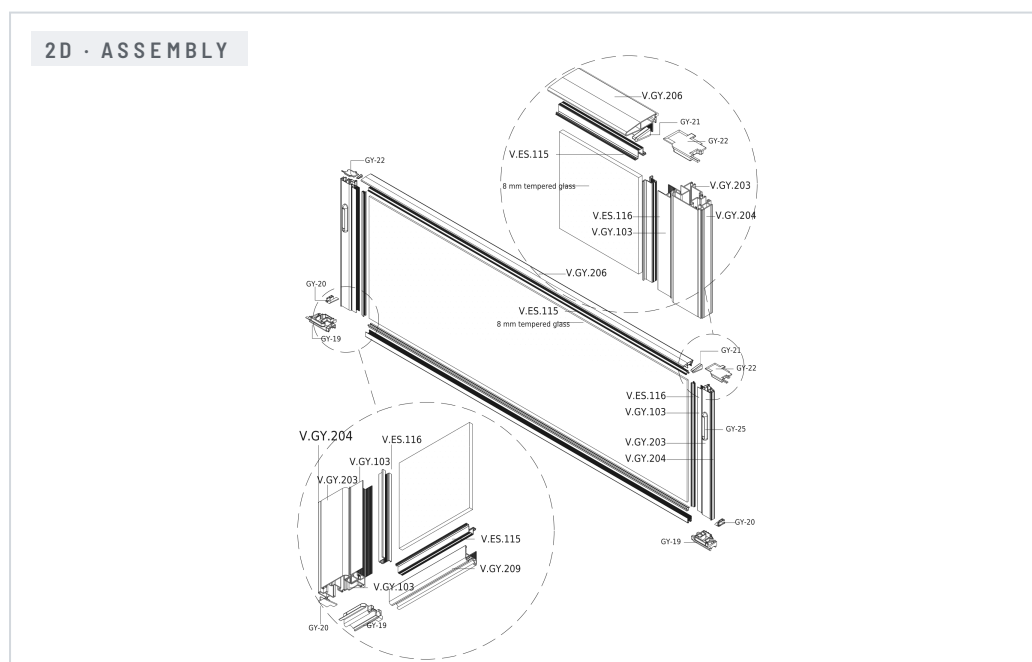
Assembly of the inner, bottom panel

The inner panel is framed by the V.GY.206 handle rail at the top and the V.GY.203 tilt sash on the sides. It pivots on the GY-19 and GY-20 bottom blocks; the GY-25 handle releases it.



IN THIS DETAIL

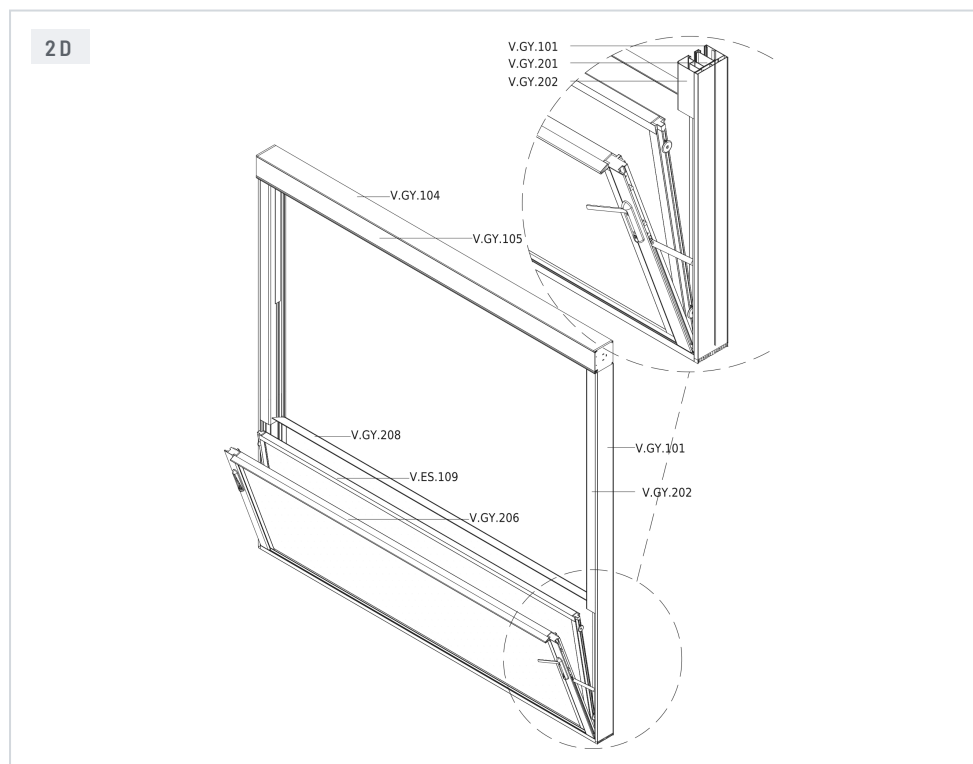
	V.GY.206 Handle rail
	V.ES.112 Interlock insert
	V.GY.207 Top rail
	V.GY.203 Tilt sash
	V.GY.204 Tilt frame
	V.GY.103 Sash stile
	V.ES.115 Bead 8 mm
	V.ES.116 Bead 8 mm
	GY-19 Tilt bottom block, PVC
	GY-20 Tilt frame bottom block
	GY-25 Tilt handle



Exploded 3D view of the tilting panel; the 2D drawing shows both corners with their accessories.

Inner panel tilted into the room

With the handles released, the inner panel tilts in on its bottom blocks and is held by the GY-26 stays. The GY-27 espagnolette locks it back into the V.GY.204 frame.



IN THIS DETAIL



The inner panel tilted in; the 2D drawing shows the jamb and the tilt stay enlarged.



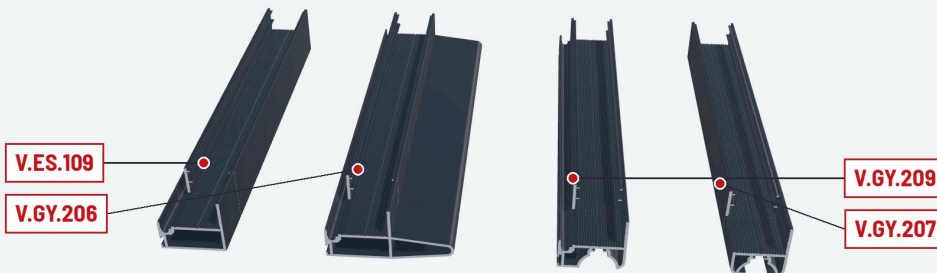
DETAIL 9

Machining the panel rails

End preparation for the panel joints

Rail ends are notched for the panel joints and drilled $\varnothing 5$ mm and $\varnothing 9$ mm, 9.1 mm from the ends. Notch and hole positions are given on each drawing.

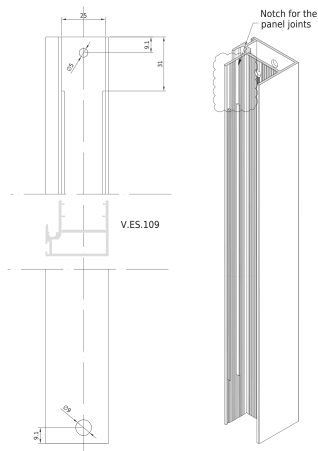
3D - NOTCHED RAIL ENDS



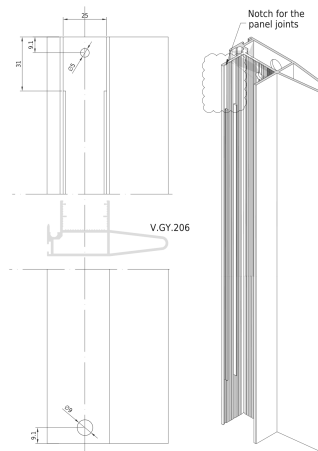
IN THIS DETAIL

	V.ES.109 Interlock rail
	V.GY.206 Handle rail
	V.GY.209 Middle rail
	V.GY.207 Top rail
	V.GY.103 Sash stile

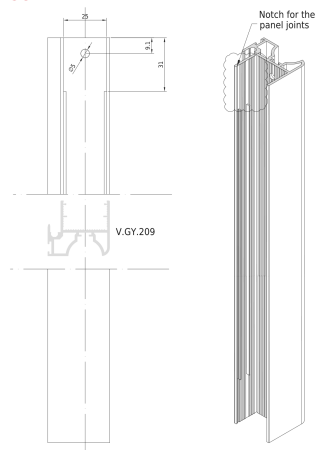
V.ES.109



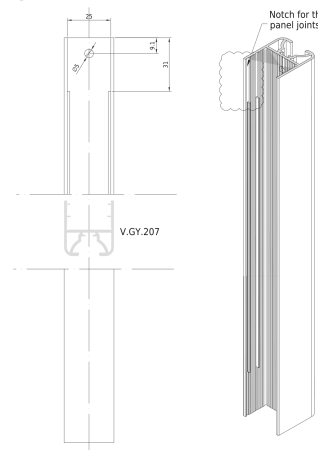
V.GY.206



V.GY.209



V.GY.207

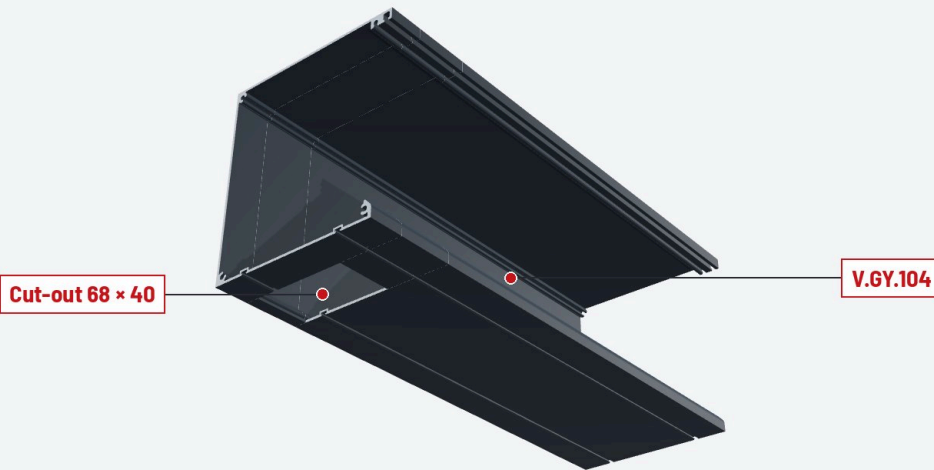


The channel walls are cut back 31 mm at each rail end so the rail fits over the stile.

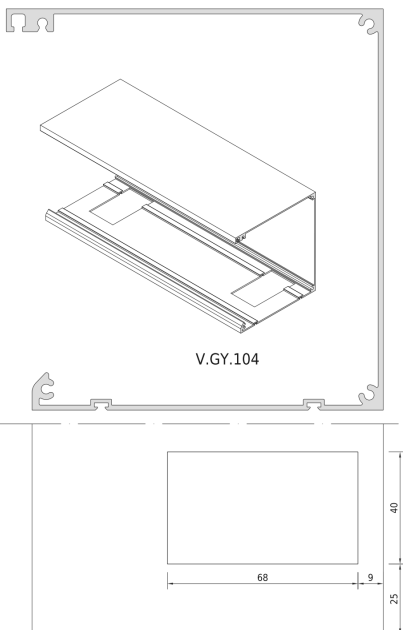
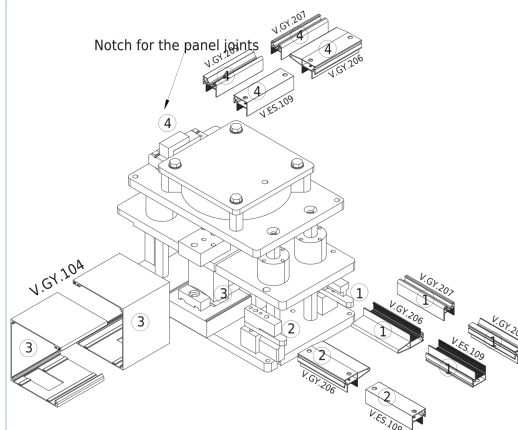
**DETAIL 10****Motor box and punching tool**

Cut-out and press positions

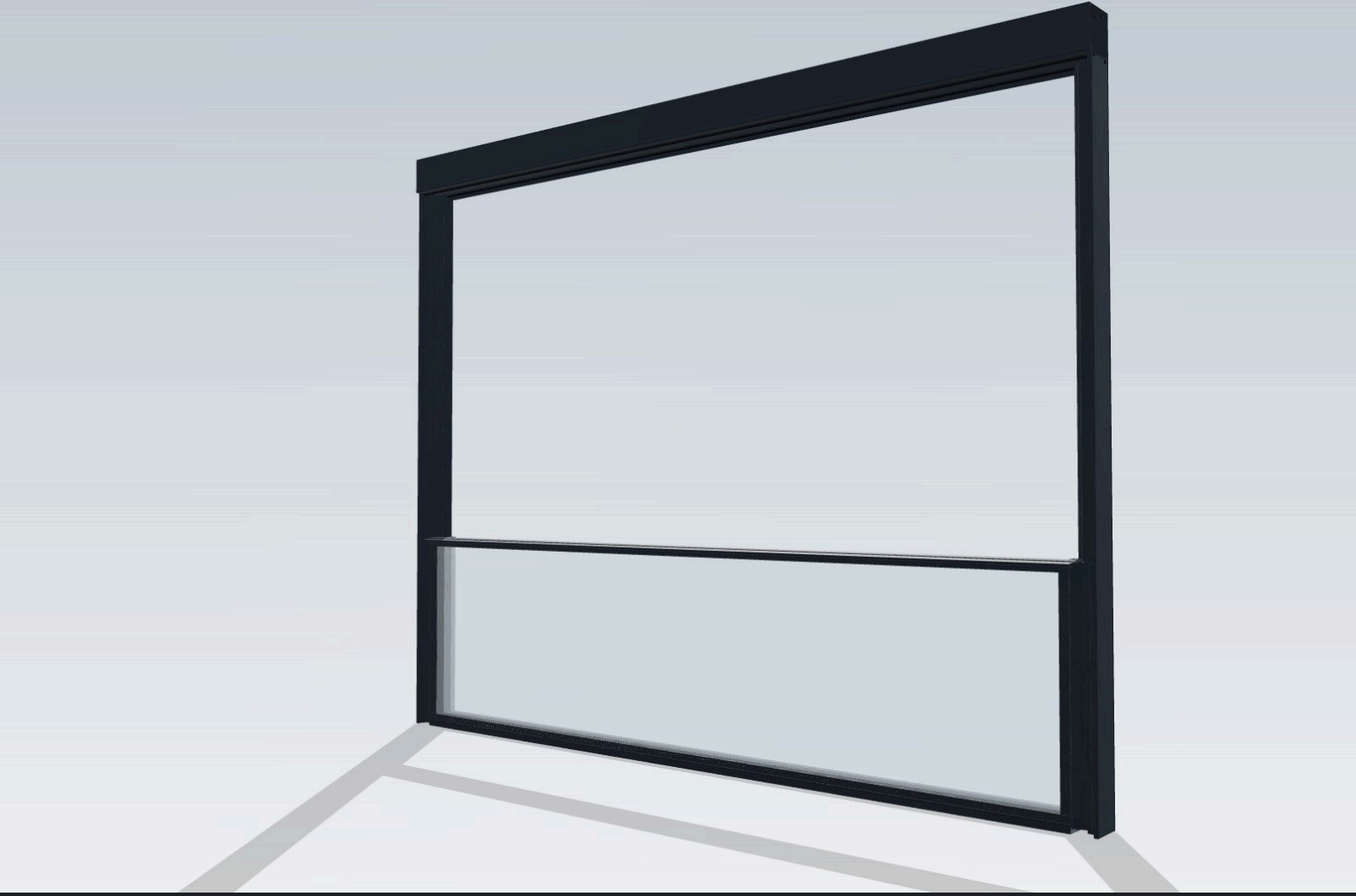
The V.GY.104 motor box is cut out 68 × 40 mm near each end for the chain or belt. A four-station punching tool prepares the motor box and the panel rails.

3D · MOTOR BOX FROM BELOW**IN THIS DETAIL**

	V.GY.104 Motor box
	V.ES.109 Interlock rail
	V.GY.206 Handle rail
	V.GY.209 Middle rail
	V.GY.207 Top rail

2D · V.GY.104**PUNCHING TOOL**

Circled numbers show the tool station for each part: the panel rails at 1, 2 and 4, the V.GY.104 motor box at 3.



TILT-TO-CLEAN GUILLOTINE

Guillotine glass system with a tilting inner panel

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