

# RANGE OF HINGES

Savio hinges and fixing kits

Quick installation and adjustment  
Easy and fast fastening  
Wide range for all profiles



# Morsa+ and Morsadue+

## Innovative fastening system

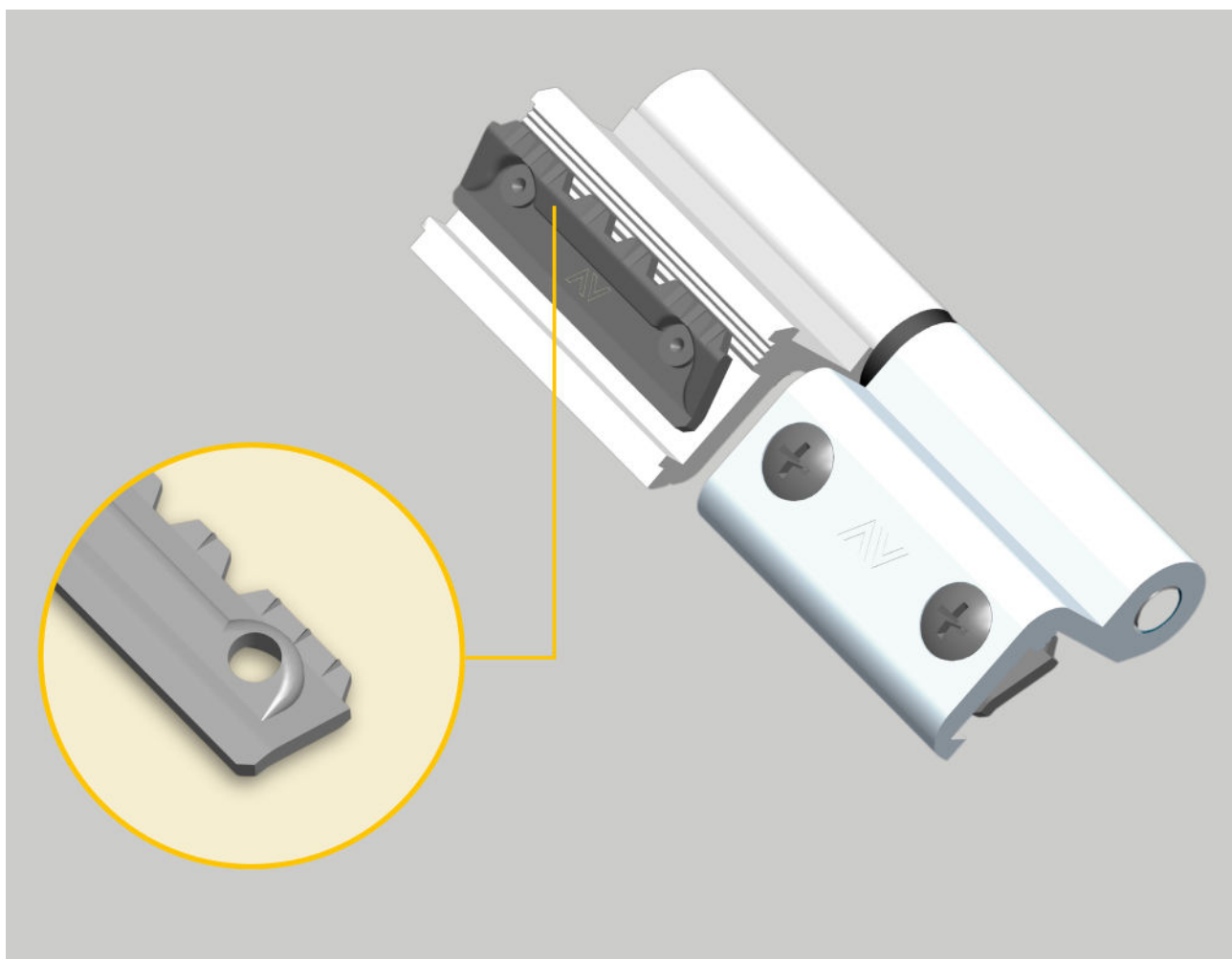
The raised serration on the counterplate in the insertion area inside the profile engraves the surface, preventing vertical sliding.

## Guaranteed load capacity

The hinge's strength ensures high load capacities, starting from 80 kg with two 2-wing hinges (MORSA+) and reaching up to 100 kg with three 3-wing hinges.

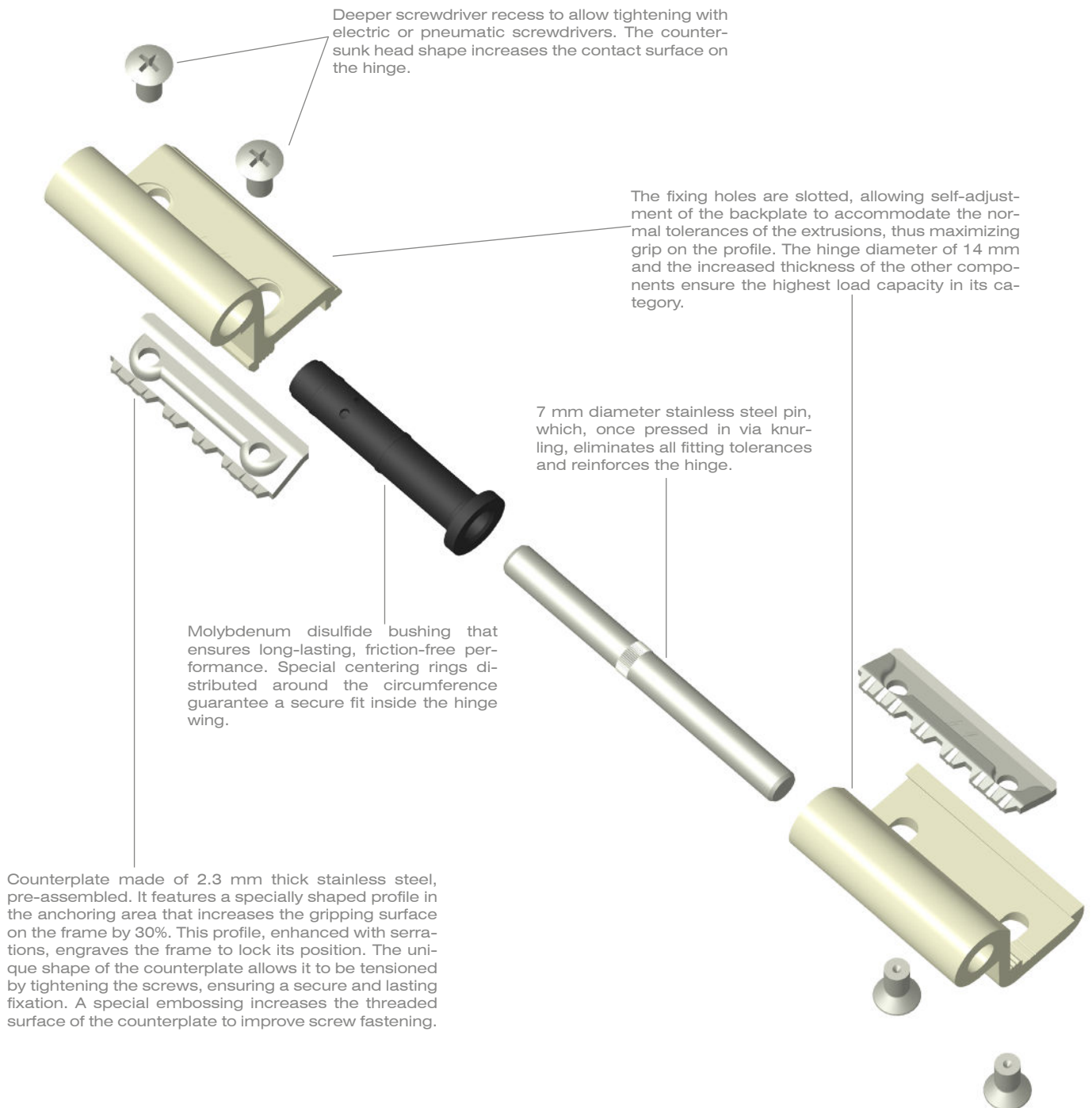
## Premium-grade materials

The use of the counterplate along with stainless steel screws and pin, allows hinge installation even in corrosive environments such as coastal or industrial areas. The molybdenum disulfide bushing reduces friction between components, effectively eliminating annoying noise.



Detail of the counterplate with patented anchoring serration.

## Quick-release hinge for windows and French doors **MORSA+**



## MORSA+ hinge range



Item	Description	Pcs.
1121	(pat.) Two-leaf aluminum hinge with nylon bushing, pin, mounting plates and pre-assembled screws in stainless steel 430.	50
1121.1	Load capacity: - 2 hinges 80 kg - 3 hinges 90 kg	
1121.6	(XSD finishes: pack of 20 pieces.)	
1121.7		
1121.9		
1121.10		
1121.12		
1121.13		
1121.21		
1121.78		
1121.79		
1121.81		
1121 D/S	Same as 1121 but pre-assembled for right or left.	
1121.1 D/S	Same as 1121.1 but pre-assembled for right or left.	
1121.12 D/S	Same as 1121.12 but pre-assembled for right or left.	
1121.81 D/S	Same as 1121.81 but pre-assembled for right or left.	



Item	Description	Pcs.
1122	(pat.) Three-wing aluminum hinge pre-assembled, nylon bushings, pin, counterplates and screws pre-assembled in stainless steel 430.	20
1122.1	Load capacity: - 2 hinges 90 kg - 3 hinges 100 kg	
1122.81		



Item	Description	Pcs.
1122.200	(pat.) Pre-assembled aluminum comb hinge with nylon bushings, pre-assembled removable pin, counterplates and screws in stainless steel 430.	20
1122.201	Load capacity: - 2 hinges 90 kg - 3 hinges 100 kg  (XSD finishes: pack of 10 pieces)	
1122.281		

## MORSA+ hinge range

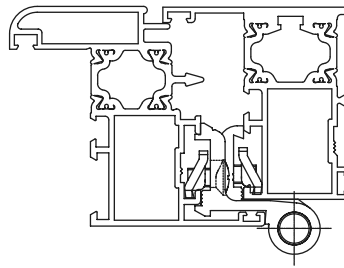
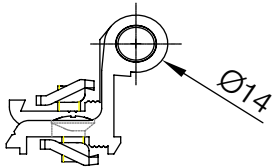
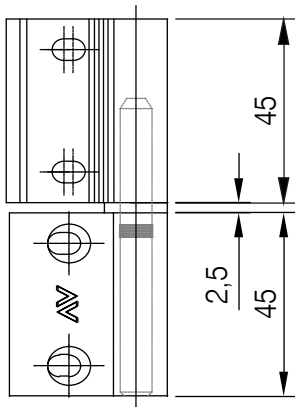
Item	Description	Pcs.
1123	(Pat.) Two-wing hinge for third aluminum sash, with nylon bushing, pin, counterplates and pre-assembled screws in stainless steel 430.	50
1123.6	Load capacity: - 2 hinges: 80 kg	
1123.11	- 3 hinges: 90 kg  (XSD finishes: pack of 20 pieces.)	
1123.30		
1123 D/S	Same as 1123 but pre-assembled for right or left.	

## MORSADUE+ hinge range

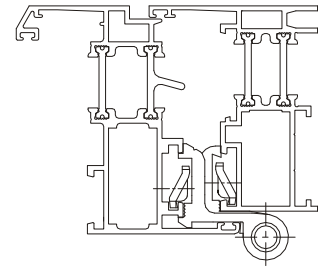
Item	Description	Pcs.
1117	(Pat.) Two-wing aluminum hinge with 2 nylon bushings, galvanized steel pin, counterplates and pre-assembled screws in stainless steel 430.	50
1117.1	Load capacity: - 2 hinges 75 kg	
1117.11	- 3 hinges 85 kg	
1117.12		
1117.71		
1117.115		
1115.81	Same as 1117.71, but with stainless steel pin and load capacity: 2 hinges 60 kg; 3 hinges 70 kg.	

Item	Description	Pcs.
1116.1	(Pat.) Two-wing hinge for third sash, with 2 nylon bushings, galvanized steel pin, counterplates and pre-assembled screws in stainless steel 430.	50
	Load capacity: - 2 hinge 60 kg	
	- 3 hinges 70 kg	

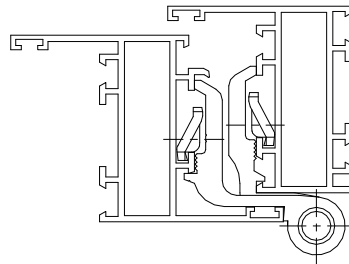
## Series 1121 hinge range



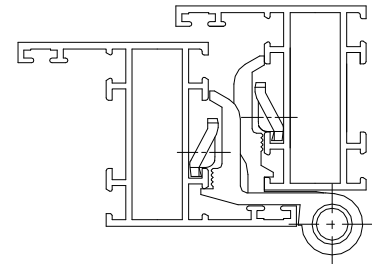
1121



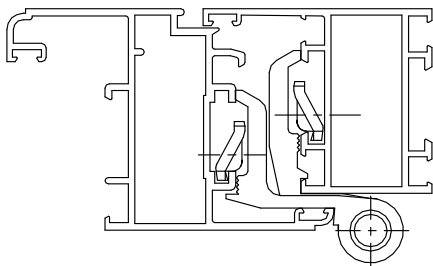
1121.1



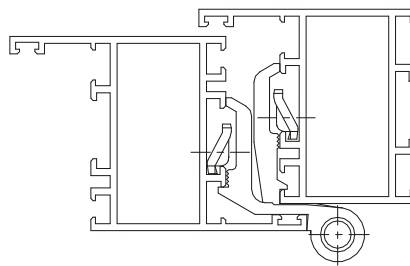
1121.6



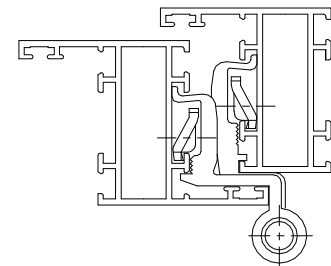
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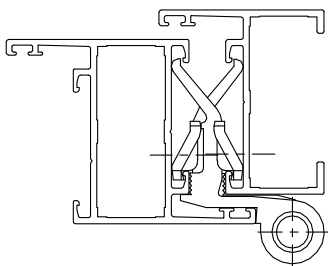
1121.9



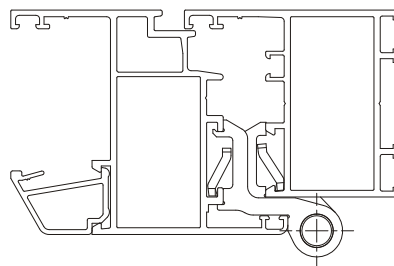
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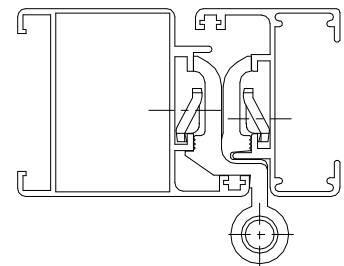
1121.12



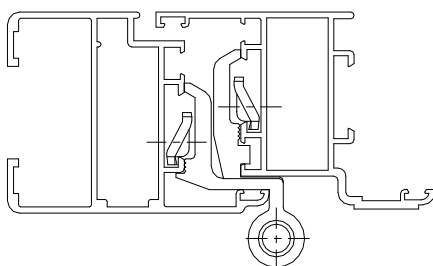
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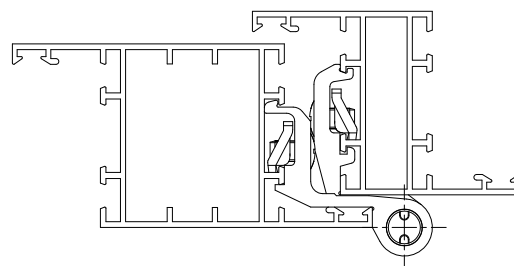
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1121.78

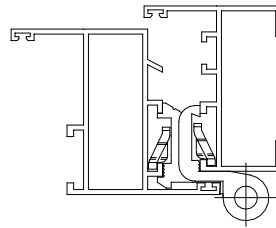
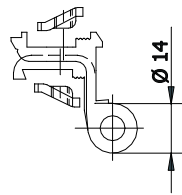
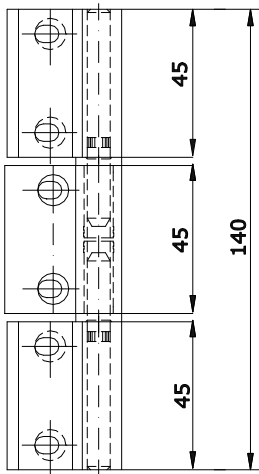


1121.79

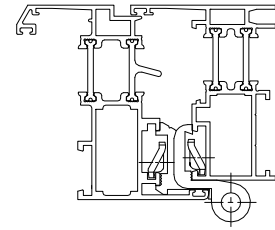


1121.81

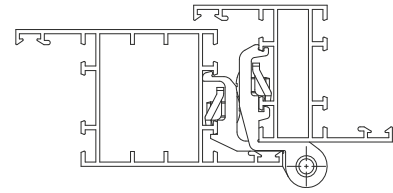
Series 1122 hinge range



1122

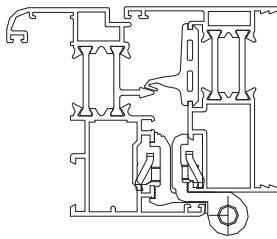
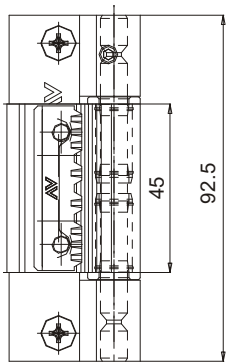


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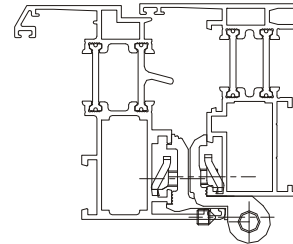
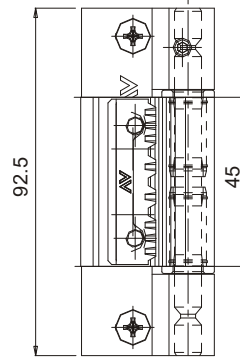


1122.81

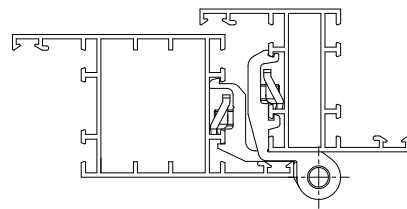
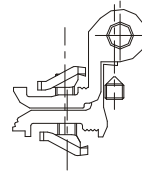
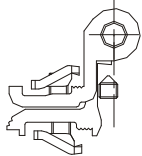
Comb hinge range



1122.200

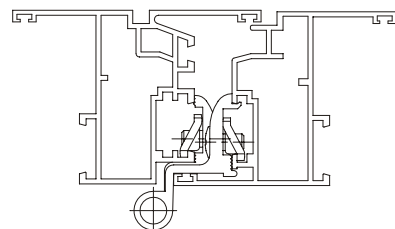
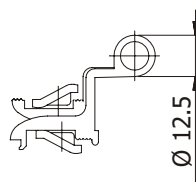
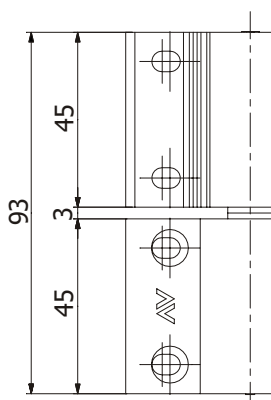


1122.201



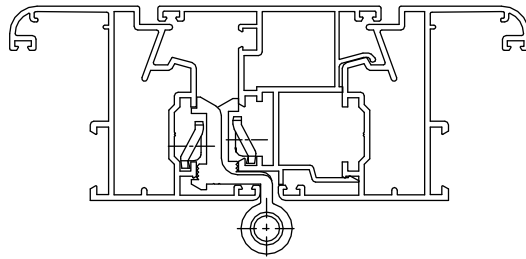
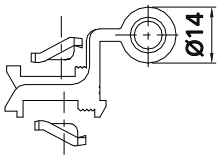
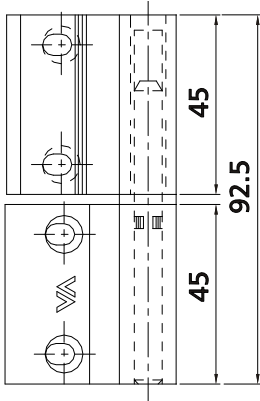
1122.281

Series 1116 hinge range

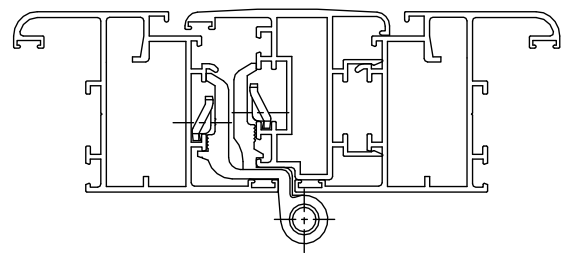


1116.1

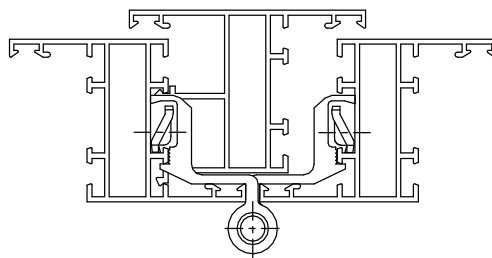
## Series 1123 hinge range



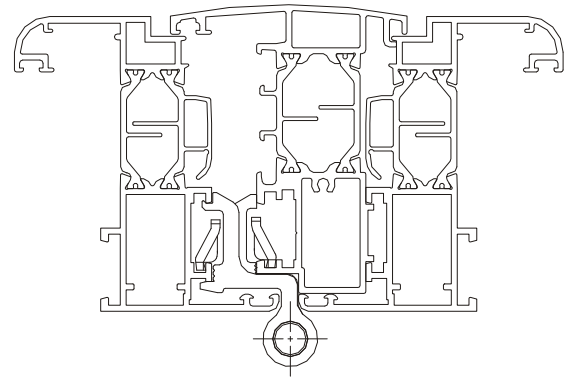
1123



1123.6

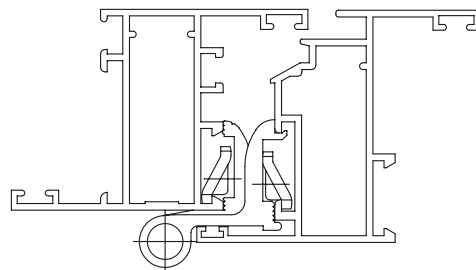
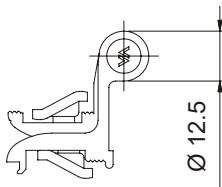
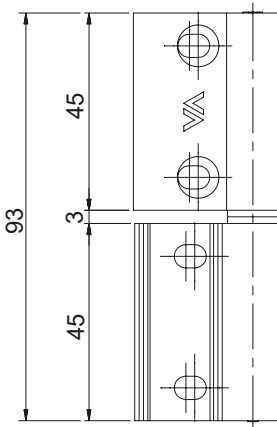


1123.11

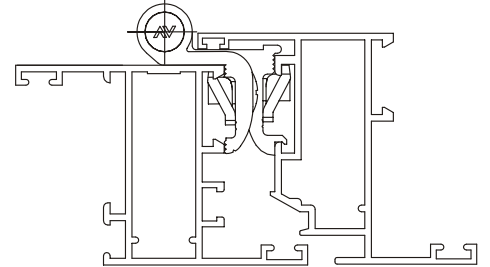


1123.30

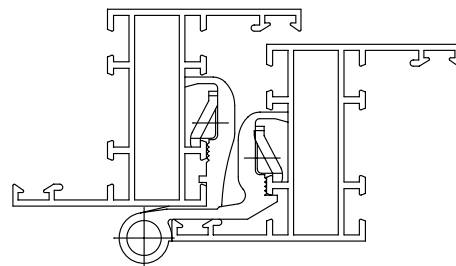
## Series 1117 and 1115 hinge range



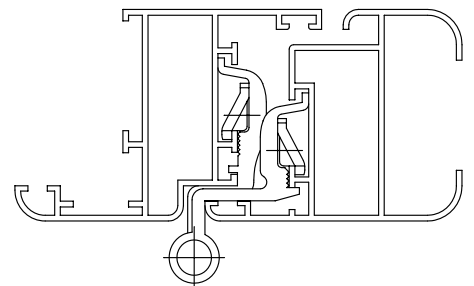
1117



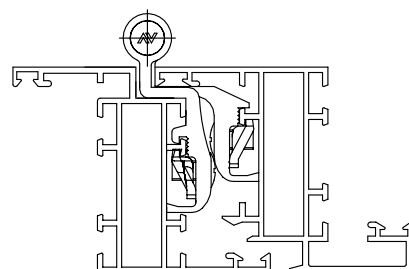
1117.1



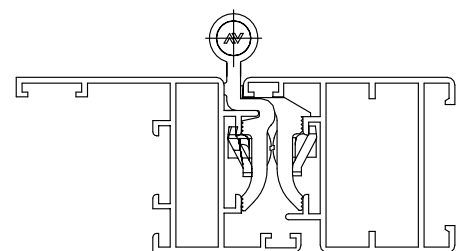
1117.11



1117.12



1117.71-1115.81



1117.115

# Summa and Summa+

## SUMMA+ and SUMMA Certified Systems

The SUMMA+ system is designed for direct installation on the assembled frame. Its special extruded geometry and stainless steel counterplates allow for a simple and secure installation. The SUMMA system is characterized by the quick hinge coupling to the profile, made possible by pre-assembled stainless steel counterplates, which facilitate mounting and ensure stability.

### Load Capacity and Strength – Features of SUMMA+ and SUMMA

The raised dentation on the counterplate, located in the insertion area within the profile, bites into the surface to prevent vertical slippage, thus ensuring greater stability. The high strength of the hinge allows it to support heavy loads, starting from 100 kg with two two-wing hinges, and reaching 120 kg with three two-wing hinges. Load capacity has been tested and verified according to EN 1935:2002 for single-axis hinges.

### Advantages of SUMMA+

The new patented coupling system ensures even more effective fastening, optimizing application even on slim profiles.

### Easy, convenient and independent adjustments

Three easy, convenient and independent adjustments (see diagram below for details):

*Lateral adjustment* can be performed with the door installed, by acting on the cam bushing without altering gasket pressure.

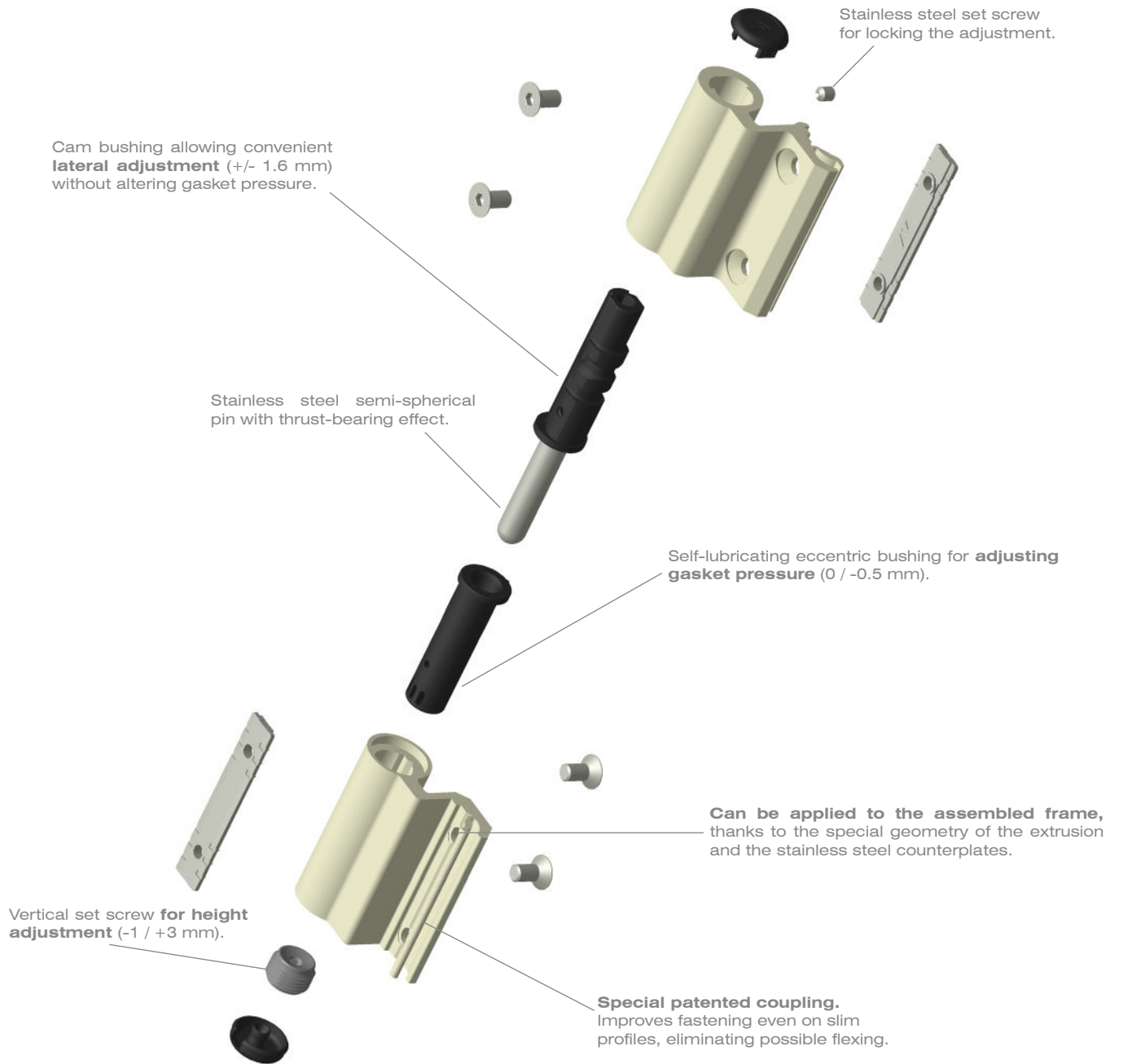
*Closing pressure adjustment*: by rotating the eccentric bushing, the pressure on the gaskets can be reduced.

*Height adjustment*: by simply adjusting the vertical set screw, the sash position can be vertically modified.

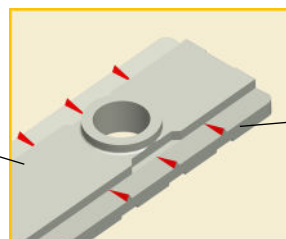
	Summa	Summa+
1	+/- 1,6 mm	+/- 1,6 mm
2	0/-0,5 mm	0/-0,5 mm
3	-1/+3 mm	-1/+3 mm

**CERTIFIED **

# SUMMA+ heavy-duty hinge

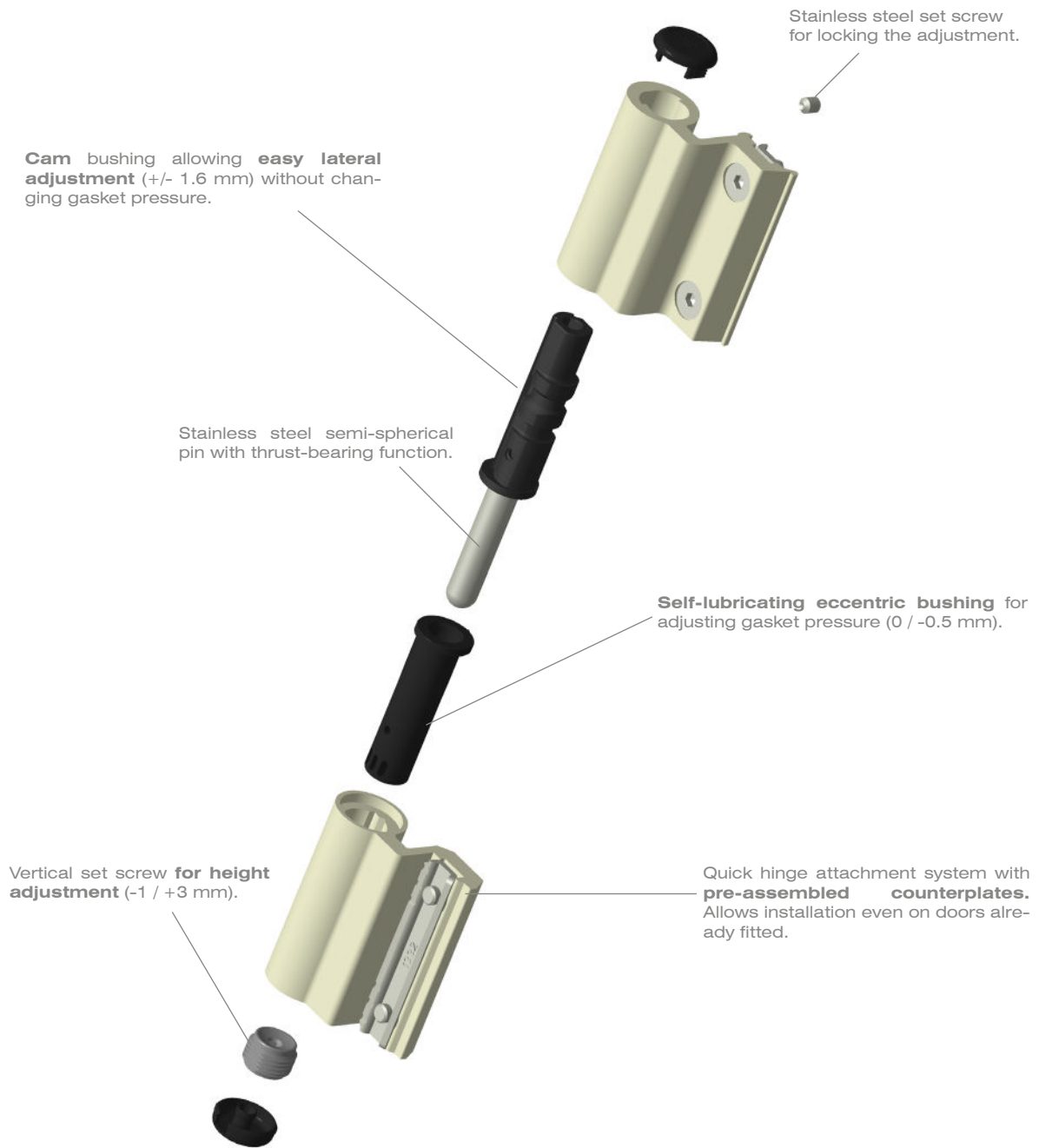


**Stainless steel** counterplates for improved corrosion resistance and more secure long-term fastening.

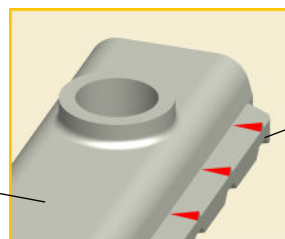


The anchoring area on the profile features serrations that bite into the profile, preventing vertical slippage of the hinges.

## SUMMA heavy-duty hinge



**Stainless steel** strike plates for improved corrosion resistance and more secure long-term fastening.



The anchoring area on the profile is equipped with a serration that bites into the profile, preventing vertical movement of the hinges.

## SUMMA+ hinge range



Item	Description	Pcs.
1124.40	(Pat.) Adjustable 2-wing aluminium hinge, 23 mm rotation center, 2 slide-in strike plates, stainless steel pin, self-lubricating nylon bushing.  Load capacity: – 2 hinges 100 kg – 3 hinges 120 kg  For C.U. and NC International profiles.	20



Item	Description	Pcs.
1124.43	(Pat.) Adjustable 2-wing aluminium hinge, 22.5 mm rotation center, 2 slide-in strike plates, stainless steel pin, self-lubricating nylon bushing.  Load capacity: – 2 hinges 100 kg – 3 hinges 120 kg  For R40 profiles.	20



Item	Description	Pcs.
1124.60	(Pat.) Adjustable 2-wing aluminium hinge for third sash, 15.8 mm rotation center, 2 slide-in strike plates, stainless steel pin, self-lubricating nylon bushing.  Load capacity: – 2 hinges 100 kg – 3 hinges 120 kg  For C.U. and NC International profiles.	20

## SUMMA hinge range






Item	Description	Pcs.
1124.30	(Pat.) Adjustable 2-wing aluminium hinge, 23 mm rotation center, 2 quick-lock strike plates, stainless steel pin, self-lubricating nylon bushing. Load capacity: - 2 hinges 100 kg - 3 hinges 120 kg  For C.U. and NC International profiles.	20
1124.31	(Pat.) Same as 1124.30 but for 10x14.3 mm frame grooves.	
1124.34	(Pat.) Same as 1124.30 but with 23 mm rotation center, for NC 40 N rounded profiles.	
1124.36	(Pat.) Same as 1124.30 but with 21.5 mm rotation center, for All.co 5 overlap profiles.	

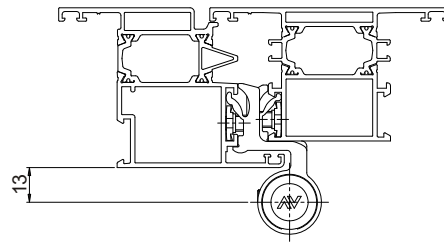
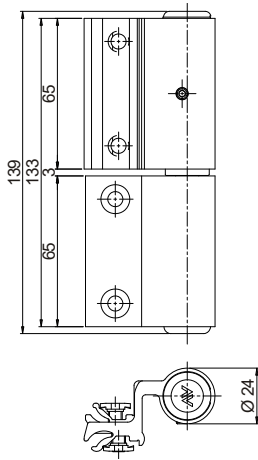


Item	Description	Pcs.
1124.33	(Pat.) Adjustable 2-wing aluminium hinge, 22.5 mm rotation center, 2 quick-lock strike plates, stainless steel pin, self-lubricating nylon bushing.  For R40 profiles.	20
1124.35	(Pat.) Same as 1124.33 but for R50 profiles.  Load capacity: – 2 hinges 100 kg – 3 hinges 120 kg	

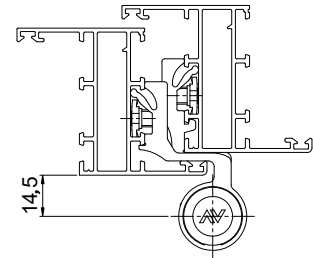
## SUMMA hinge range

	<p>Item</p> <p>1124.50</p>	<p>Description</p> <p>(Pat.) Adjustable 2-wing aluminium hinge for third sash, 15.3 mm rotation center, 2 slide-in strike plates, stainless steel pin, self-lubricating nylon bushing.</p> <p>Load capacity:            – 2 hinges 100 kg            – 3 hinges 120 kg</p> <p>For C.U. and NC International profiles.</p>	<p>Pcs.</p> <p>20</p>
	<p>Item</p> <p>1124.51</p>	<p>Description</p> <p>(Pat.) Adjustable 2-wing aluminium hinge for third sash, 15 mm rotation center, 2 slide-in strike plates, stainless steel pin, self-lubricating nylon bushing</p> <p>Load capacity:            – 2 hinges 100 kg            – 3 hinges 120 kg</p> <p>For R40 profiles.</p>	<p>Pcs.</p> <p>20</p>
	<p>Item</p> <p>1124.330</p>	<p>Description</p> <p>(Pat.) Adjustable 3-wing aluminium hinge, 23 mm rotation center, 3 quick-lock strike plates, stainless steel pin, self-lubricating nylon bushings.</p> <p>Load capacity:            – 2 hinges 100 kg            – 3 hinges 120 kg</p> <p>For C.U. and NC International profiles.</p>	<p>Pcs.</p> <p>20</p>
	<p>Item</p> <p>1124.333</p>	<p>Description</p> <p>(Pat.) Adjustable 3-wing aluminium hinge, 22.5 mm rotation center, 3 quick-lock strike plates, stainless steel pin, self-lubricating nylon bushings.</p> <p>Load capacity:            – 2 hinges 100 kg            – 3 hinges 120 kg</p> <p>For R40 profiles.</p>	<p>Pcs.</p> <p>20</p>

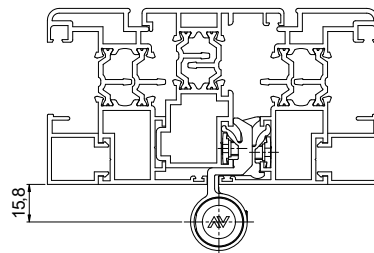
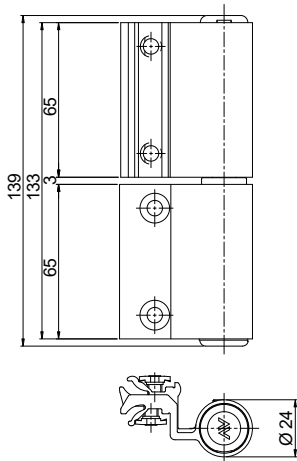
SUMMA+ hinge range



1124.40

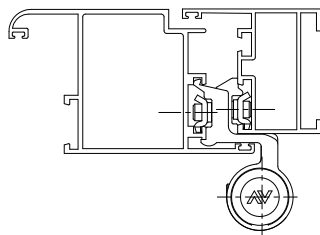
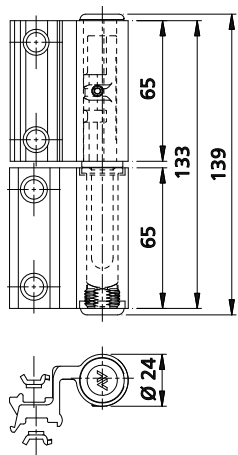


1124.43

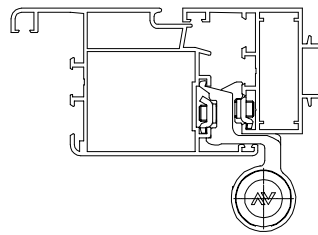


1124.60

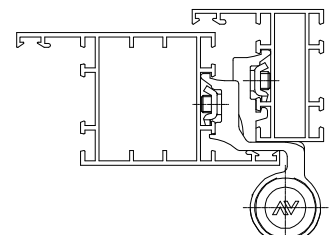
SUMMA hinge range



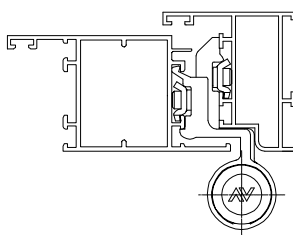
1124.30



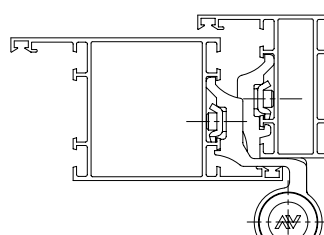
1124.31



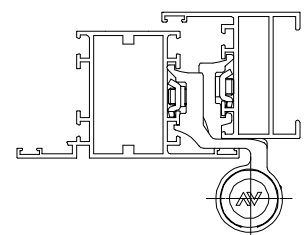
1124.33



1124.34

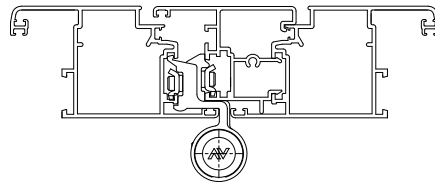
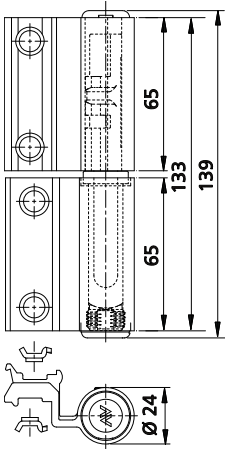


1124.35

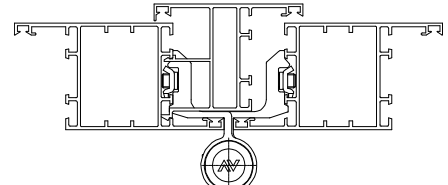


1124.36

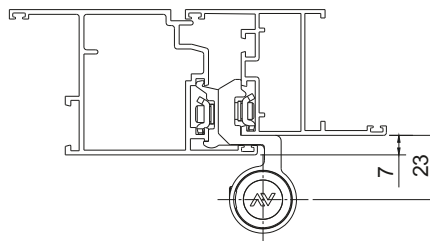
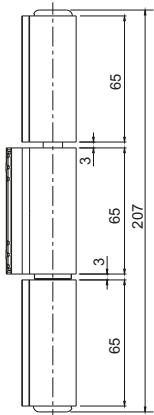
SUMMA hinge range



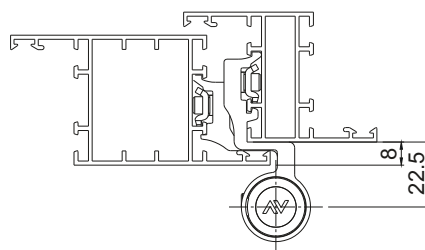
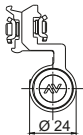
1124.50



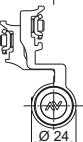
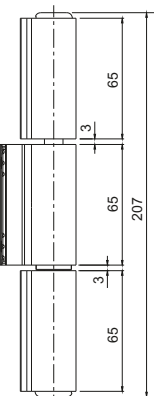
1124.51



1124.330



1124.333



# Mechanica

## Easy and independent adjustment

Three easy and independent adjustments:

- Lateral adjustment: visual, convenient, micrometric, and without the need to remove the upper wing; adjustable by rotating the upper part while the window/door is in place ( $\pm 2$  mm).
- Closing pressure adjustment: by rotating the nylon bushings with three positions (-0.5; 0; +0.5 mm).
- Height adjustment: by turning the grub screw without removing the upper wing, also adjustable while installed ( $-0/+3$  mm).

## Tested to Savio Mechanica Excellence

Certified CE according to EN 1935:2002 standard and achieved 1,000,000 voluntary certification cycles at a prestigious laboratory in Germany.

Furthermore, Mechanica is guaranteed for load capacities up to 160 kg with two hinges and 180 kg with three hinges.

## The Record-Breaking Hinge

Mechanica was the first aluminium door hinge in Europe to obtain **CE** certification, confirming its load-bearing parameters. Thanks to its innovative design, the Mechanica hinge line can withstand forces up to 1000 kg. A true record-breaking hinge!

## MECHANICA hinge

Special screws with conical countersunk head: they self-center on the profile machining and ensure correct hinge positioning, reducing play compared to the version with bushings.

Casing fixing screws: they feature progressive tightening; they enhance anti-burglary security and cannot be accessed when the door is closed.

Self-lubricating eccentric bushing: depending on its position, it adjusts the pressure on the seals.

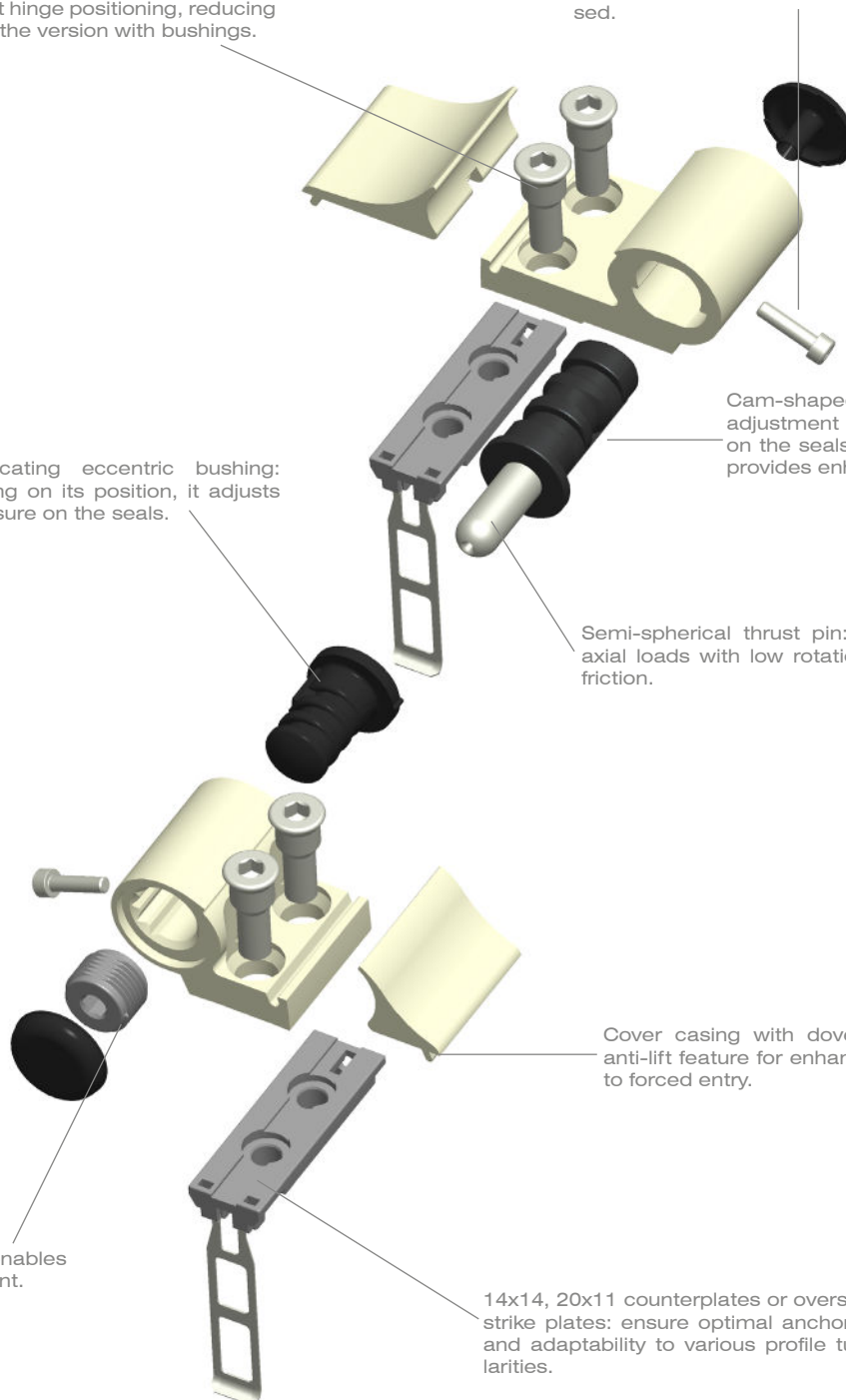
Cam-shaped bushing: allows easy lateral adjustment without altering the pressure on the seals; additionally, being metal, it provides enhanced rigidity to the hinge.

Semi-spherical thrust pin: absorbs high axial loads with low rotational effort and friction.

Cover casing with dovetail extension: anti-lift feature for enhanced resistance to forced entry.

Vertical grub screw: enables easy height adjustment.

14x14, 20x11 counterplates or oversized strike plates: ensure optimal anchorage and adaptability to various profile tubularities.



## MECHANICA hinge range



Item	Description	Pcs.
1145/53	(Pat.) Adjustable 2-wing aluminium hinge (reduced male wing), 53 mm pitch, 20 mm rotation center, 0 mm step, stainless steel pin, and self-lubricating nylon bushing.  Load capacity: – 2 hinges 80 kg – 3 hinges 100 kg	20
1145/60MR	Same as 1145/53 but with 60 mm pitch and load capacity of 2 hinges 60 kg, 3 hinges 80 kg.	
1145.3/53	Same as 1145/53 but with 3 wings.	

**CE** EN 1925:2002  
(The CE marking does not cover the 1145.3/53 pitches)



Item	Description	Pcs.
1145/60	(Pat.) Adjustable 2-wing aluminium hinge, 60 mm pitch, 20 mm rotation center, 0 mm step, stainless steel pin, and self-lubricating nylon bushing.  Load capacity: – 2 hinges 160 kg – 3 hinges 180 kg	20
1145/67	Same as 1145/60 but with 67 mm pitch.	
1145/79	Same as 1145/60 but with 79 mm pitch and load capacity: 2 hinges 120 kg, 3 hinges 140 kg.	
1145/86	Same as 1145/60 but with 86 mm pitch and load capacity: 2 hinges 100 kg, 3 hinges 120 kg.	
1145/93	Same as 1145/60 but with 93 mm pitch and load capacity: 2 hinges 100 kg, 3 hinges 120 kg.	
1145/93SM	Same as 1145/93 but with symmetrical wings.	

**CE** EN 1925:2002



Item	Description	Pcs.
1145.3/60	(Pat.) Adjustable 3-wing aluminium hinge, 60 mm pitch, 20 mm rotation center, 0 mm step, stainless steel pin, and self-lubricating nylon bushing.  Load capacity: – 2 hinges 160 kg – 3 hinges 180 kg	10
1145.3/67	Same as 1145/60 but with 67 mm pitch.	
1145.3/79	Same as 1145/60 but with 79 mm pitch and load capacity: 2 hinges 120 kg, 3 hinges 140 kg.	
1145.3/86	Same as 1145/60 but with 86 mm pitch and load capacity: 2 hinges 100 kg, 3 hinges 120 kg.	
1145.3/93	Same as 1145/60 but with 93 mm pitch and load capacity: 2 hinges 100 kg, 3 hinges 120 kg.	
1145.3/93SM	Same as 1145/93 but with symmetrical wings and load capacity: 2 hinges 100 kg, 3 hinges 120 kg.	

**CE** EN 1925:2002  
(The CE marking does not include the 1145.3/86 and 1145.3/93SM pitches.)

## MECHANICA hinge range



**CE EN 1925:2002**  
(The CE marking does not include the 1146/97, 1146/104, 1146.1/62.5 and 1146.1/81 pitches.)







Item	Description	Pcs.
1146/59	(Pat.) Adjustable 2-wing aluminium hinge, 59 mm pitch, 20 mm rotation center, 0 mm step, stainless steel pin, and self-lubricating nylon bushing.  Load capacity: – 2 hinges 160 kg – 3 hinges 180 kg	20
1146/62.5	Same as 1146/59 but with 62.5 mm pitch.	
1146/67	Same as 1146/59 but with 67 mm pitch.	
1146/74.5	Same as 1146/59 but with 74.5 mm pitch and load capacity: 2 hinges 120 kg, 3 hinges 140 kg.	
1146/78	Same as 1146/59 but with 78 mm pitch and load capacity: 2 hinges 120 kg, 3 hinges 140 kg.	
1146/84	Same as 1146/59 but with 84 mm pitch and load capacity: 2 hinges 100 kg, 3 hinges 120 kg.	
1146/89	Same as 1146/59 but with 89 mm pitch and load capacity: 2 hinges 100 kg, 3 hinges 120 kg.	
1146/92	Same as 1146/59 but with 92 mm pitch and load capacity: 2 hinges 100 kg, 3 hinges 120 kg.	
1146/97	Same as 1146/59 but with 97 mm pitch and load capacity: 2 hinges 100 kg, 3 hinges 120 kg.	
1146/104	Same as 1146/59 but with 104.5 mm pitch and load capacity: 2 hinges 100 kg, 3 hinges 120 kg.	
1146.1/62.5	Same as 1146/59 but with 62.5 mm pitch and 36 mm rotation center.	
1146.1/84	Same as 1146.1/62.5 but with 84 mm pitch and load capacity: 2 hinges 100 kg, 3 hinges 120 kg.	
1146.2/62.5	Same as 1146.1/62.5 but with 20 mm rotation center and 10 mm step.	




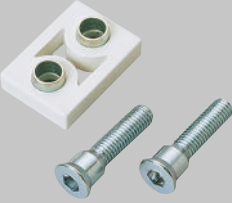



**CE EN 1925:2002**  
(The CE marking does not include the 1146.3/104, 1146.13/62, 1146.13/84 and 1146.23/62 pitches.)

Item	Description	Pcs.
1146.3/59	(Pat.) Adjustable 3-wing aluminium hinge, 59 mm pitch, 20 mm rotation center, 0 mm step, stainless steel pin, and self-lubricating nylon bushings.  Load capacity: – 2 hinges 160 kg – 3 hinges 180 kg	20
1146.3/62.5	Same as 1146.3/59 but with 62.5 mm pitch.	
1146.3/67	Same as 1146.3/59 but with 67 mm pitch.	
1146.3/78	Same as 1146.3/59 but with 78 mm pitch and load capacity: 2 hinges 120 kg, 3 hinges 140 kg.	
1146.3/84	Same as 1146.3/59 but with 84 mm pitch and load capacity: 2 hinges 100 kg, 3 hinges 120 kg.	
1146.3/89	Same as 1146.3/84 but with 89 mm pitch.	
1146.3/92	Same as 1146.3/84 but with 92 mm pitch.	
1146.3/104	Same as 1146.3/84 but with 104.5 mm pitch.	
1146.13/62	Same as 1146.3/59 but with 62.5 mm pitch and 36 mm rotation center.	
1146.13/84	Same as 1146.13/62.5 but with 84 mm pitch and load capacity: 2 hinges 100 kg, 3 hinges 120 kg.	
1146.23/62	Same as 1146.3/59 but with 20 mm rotation center and 10 mm step.	

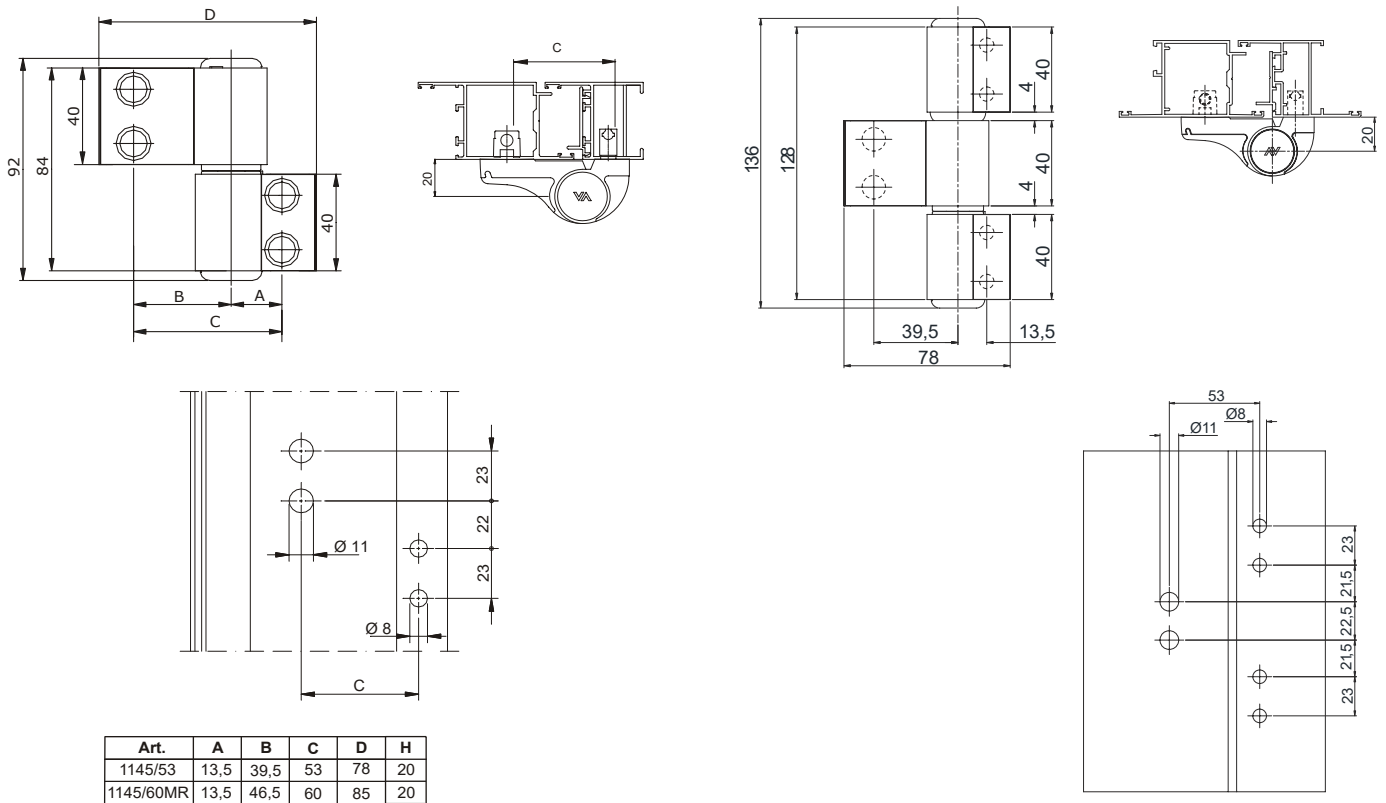
## Fixing kit for MECHANICA hinges

	Item	Description	Pcs.
	1145.704	(Pat.) <b>Galvanized</b> fixing kit for MECHANICA 2-wing hinges on flush profiles.	20
1145.705	(Pat.) <b>Stainless steel</b> fixing kit for MECHANICA 2-wing hinges on flush profiles. <i>Packaging: 10 bags, each containing two complete kits.</i>		
	Item	Description	Pcs.
	1145.706	(Pat.) <b>Galvanized</b> fixing kit for MECHANICA 2-wing hinges on flush profiles.	20
1145.707	(Pat.) <b>Stainless steel</b> fixing kit for MECHANICA 2-wing hinges on flush profiles. <i>Packaging: 10 bags, each containing two complete kits.</i>		
	Item	Description	Pcs.
	1145.710	(Pat.) <b>Galvanized</b> fixing kit for MECHANICA 2-wing hinges on overlapping and TT profiles. <i>Packaging: 10 bags, each containing two complete kits.</i>	20
	Item	Description	Pcs.
	1145.708	(Pat.) <b>Galvanized</b> fixing kit for MECHANICA 2- and 3-wing hinges on armored profiles.	20
1145.709	(Pat.) <b>Stainless steel</b> fixing kit for MECHANICA 2- and 3-wing hinges on armored profiles. <i>Confezione: 10 sacchetti con due kit completi.</i>		
	Item	Description	Pcs.
	1145.712	(Pat.) <b>Galvanized</b> fixing kit for MECHANICA 3-wing hinges on overlapping and TT profiles.	10
	Item	Description	Pcs.
	1145.714	(Pat.) <b>Galvanized</b> fixing kit for MECHANICA 3-wing hinges on flush profiles.	10
1145.715	(Pat.) <b>Stainless steel</b> fixing kit for MECHANICA 3-wing hinges on flush profiles.		

## Accessori complementari

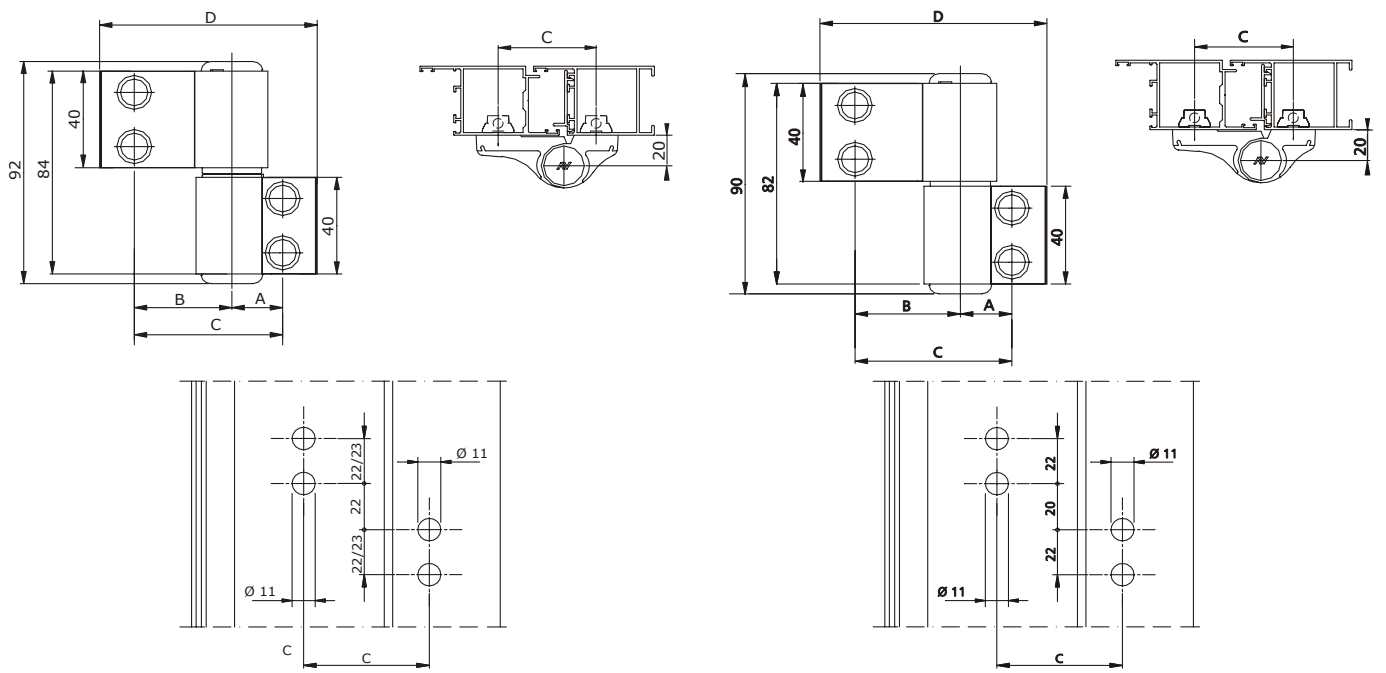
Image	Item	Description	Pcs.
	1138.702/7	7 mm aluminium spacer for art. 1145/53-/60MR-/67MR- 1145.3/53	10
	1138.702/8	8.5 mm aluminium spacer for art. 1145/53-/60MR-/67MR- 1145.3/53	
	1138.702/10	10 mm aluminium spacer for art. 1145/53-/60MR-/67MR- 1145.3/53	
	1145.702/7	(Pat.) Aluminium step 7 mm, 2 pre-assembled steel bushings and 2 special galvanized steel screws.	10
	1145.702/8	Same as 1145.702/7 but 8.5 mm.	
	1145.702/10	Same as 1145.702/7 but 10 mm.	
	1145.703/7	(Pat.) Aluminium step 7 mm, 2 pre-assembled steel bushings and 2 special stainless steel screws.	
	1145.703/8	Same as 1145.703/7 but 8.5 mm.	
	1145.703/10	Same as 1145.703/7 but 10 mm.	
	1145.801	Galvanized steel spacer for TT profiles (14–20 mm) and 1 special fixing screw M8x48.	40
	1145.802	Galvanized steel spacer for TT profiles (20–28 mm) and 1 special fixing screw M8x58.	
	1145.803	Galvanized steel spacer for TT profiles (28–35 mm) and 1 special fixing screw M8x65.	
	1145.804	Galvanized steel spacer for TT profiles (35–42 mm) and 1 special fixing screw M8x72.	
	1145.805	(Pat.) Zamak width spacer for 14×14 backplate.	10
	1145.905	Nylon clip for cover locking and cam bushing centering.	10

**MECHANICA 1145 hinges with reduced male wing**



**1145.3/53**

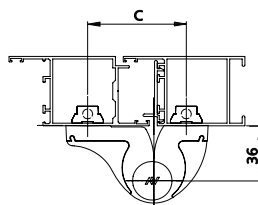
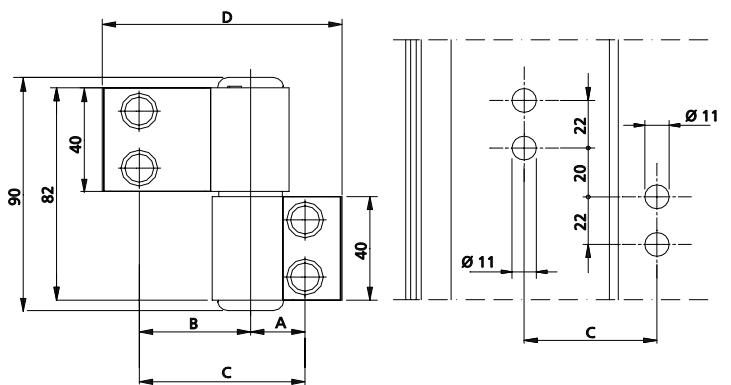
**MECHANICA 1145 and 1146 two-wing hinges**



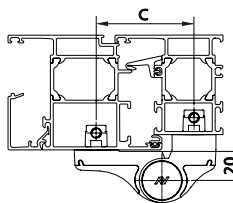
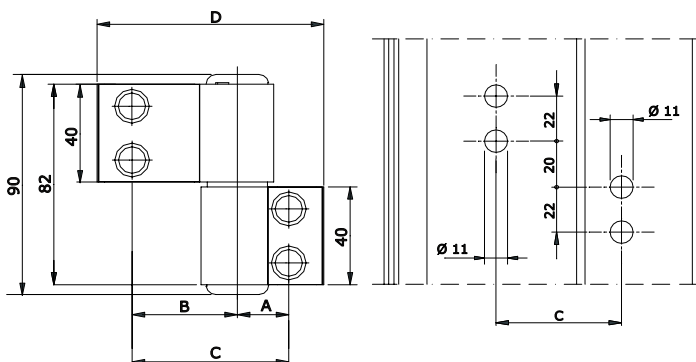
Art.	A	B	C	D
1145/60	20,5	39,5	60	88
1145/67	20,5	46,5	67	95
1145/79	39,5	39,5	79	107
1145/86	39,5	46,5	86	114
1145/93	39,5	53,5	93	121
1145/93SM	46,5	46,5	93	121

Art.	A	B	C	D
1146/59	17	42	59	87
1146/62.5	20,5	42	62,5	90,5
1146/67	17	50	67	95
1146/74.5	17	57,5	74,5	102,5
1146/78	20,5	57,5	78	106
1146/84	42	42	84	112
1146/89	47	42	89	117
1146/92	42	50	92	120
1146/97	47	50	97	125
1146/104	47	57,5	104,5	132,5

MECHANICA 1146.1 and 1146.2 two-wing hinges

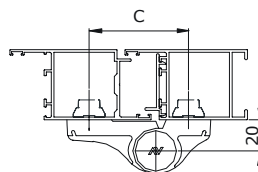
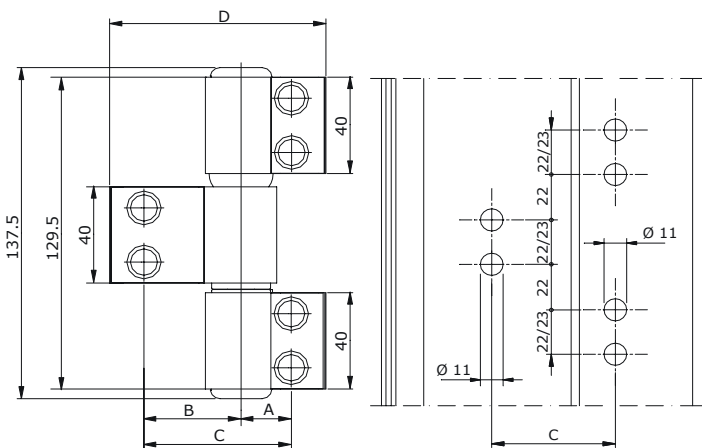


Art.	A	B	C	D
1146.1/62,5	20,5	42	62,5	90,5
1146.1/84	42	42	84	112

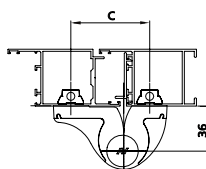
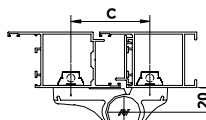
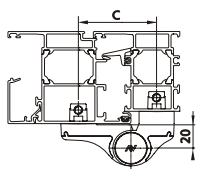
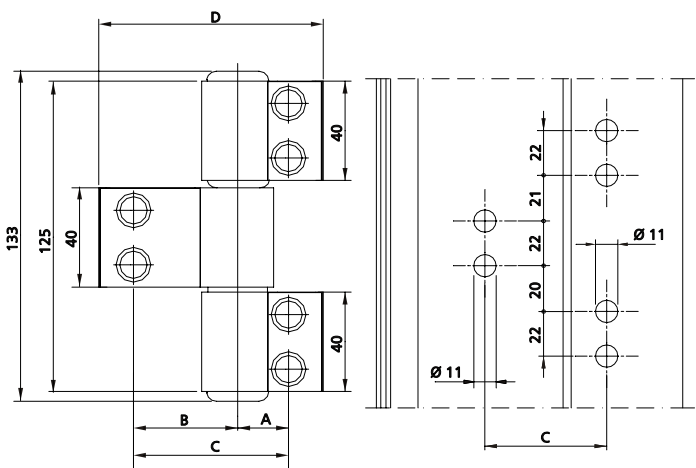


Art.	A	B	C	D
1146.2/62,5	20,5	42	62,5	90,5

MECHANICA 1145.3 and 1146.3 three-wing hinges



Art.	A	B	C	D
1145.3/60	20,5	39,5	60	88
1145.3/67	20,5	46,5	67	95
1145.3/79	39,5	39,5	79	107
1145.3/86	39,5	46,5	86	114
1145.3/93	39,5	53,5	93	121
1145.3/93SM	46,5	46,5	93	121

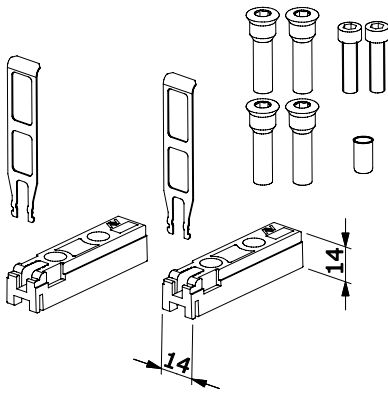


Art.	A	B	C	D
1146.23/62	20,5	42	62,5	90,5

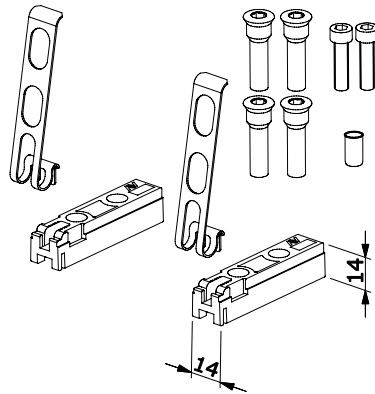
Art.	A	B	C	D
1146.3/59	17	42	59	87
1146.3/62,5	20,5	42	62,5	90,5
1146.3/67	17	50	67	95
1146.3/78	20,5	57,5	78	106
1146.3/84	42	42	84	112
1146.3/89	47	42	89	117
1146.3/92	42	50	92	120
1146.3/104	47	57,5	104,5	132,5

Art.	A	B	C	D
1146.13/62	20,5	42	62,5	90,5
1146.13/84	42	42	84	112

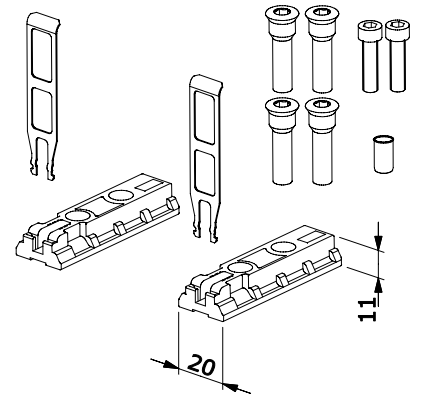
Fixing kit



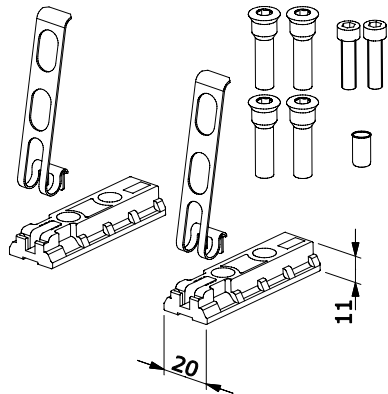
1145.704



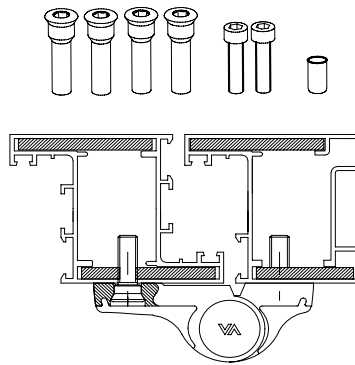
1145.705



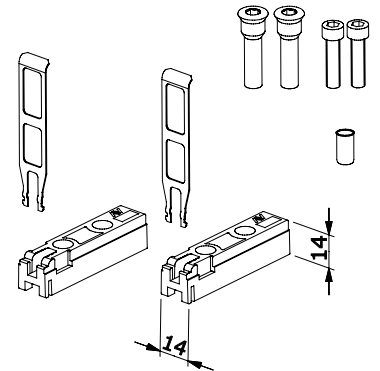
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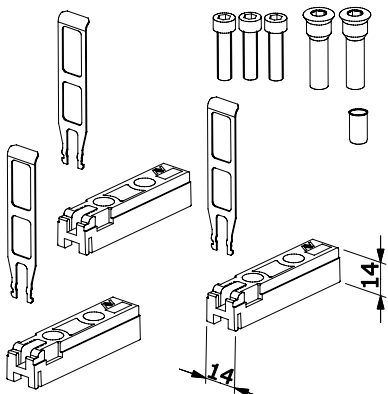
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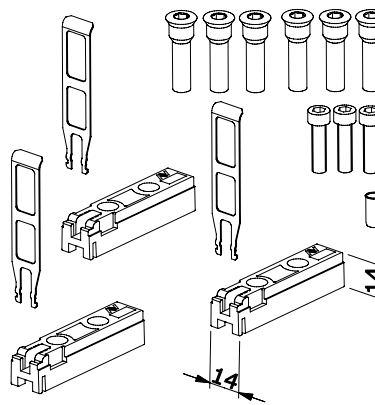
1145.708/709



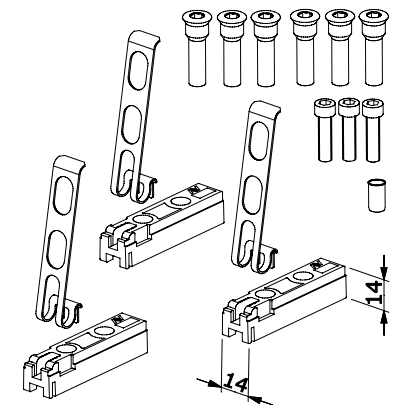
1145.710



1145.712

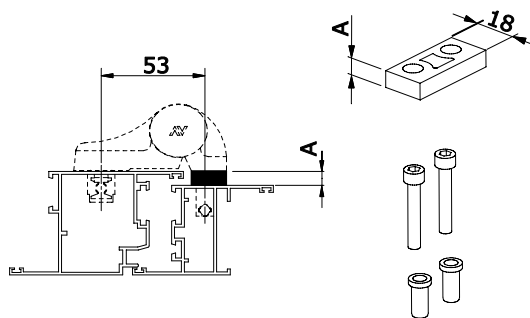


1145.714



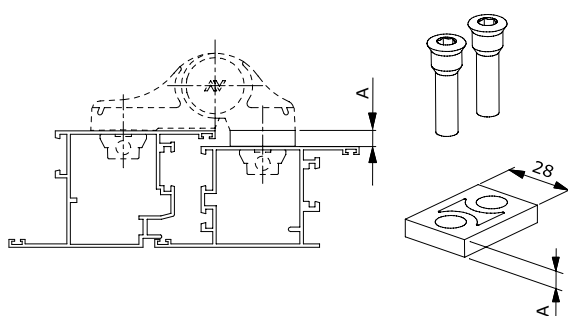
1145.715

Complementary accessories



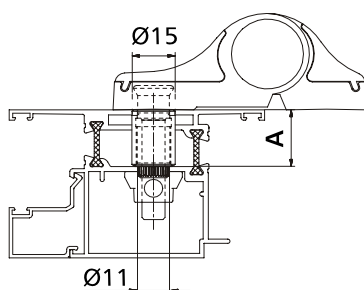
Art.	A
1138.702/7	7
1138.702/8	8,5
1138.702/10	10

1138.702



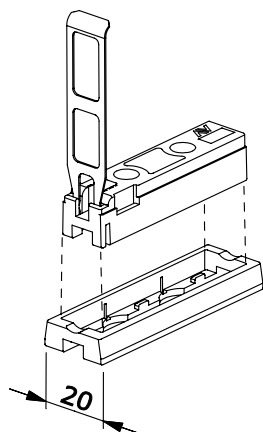
Art.	A
1145.702/7	7
1145.702/8	8,5
1145.702/10	10
1145.703/7	7
1145.703/8	8,5
1145.703/10	10

1145.702 - 1145.703

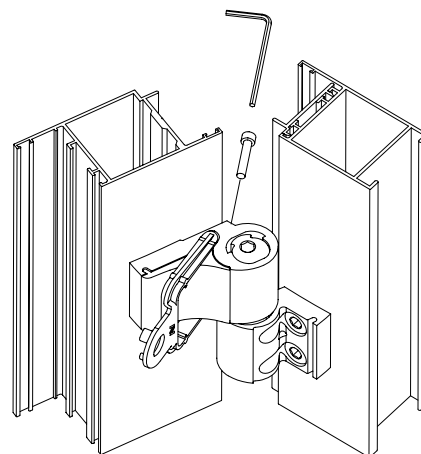
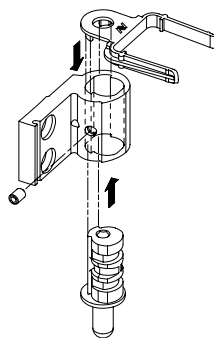


Art.	A
1145.801	14-20
1145.802	20-28
1145.803	28-35
1145.804	35-42

1145.801



1145.805



1145.905

# Fixing kit with special screws

## FIXIA holds 1.230 times its own weight

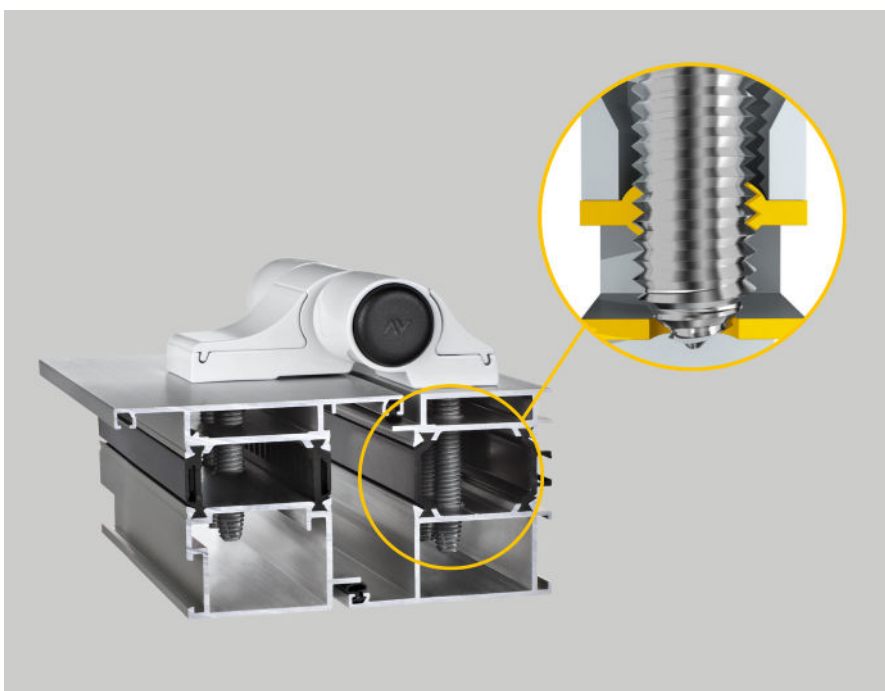
Savio Fixia is a patented special screw for **Mechanica**, designed for thermal break profiles, with record-breaking features:

- Load capacity of 230 kg according to EN 1191:2002
- Compatible with standard versions of the Mechanica hinge
- Usable with both monolithic and stepped hinges
- Drastically reduces drilling errors
- No special assembly tools required

### EN 1191:2002 standard

The test, carried out under real-use conditions at the IFT Rosenheim, exceeded 200,000 cycles with a sash of **230 Kg**, with dimensions L=1100 x H=2200 mm, made with a 1.7 mm thick profile, fitted with **Mechanica** two-wing hinges (1146/62.5) fastened with the **Fixia system**. This result made it possible to achieve the **“6” grade** classification according to the EN 12400:2002 standard, corresponding to frequent door use (QM 343 certification program).

Regarding the **Mechanica** hinge load capacities, for use on emergency exit doors, please refer to the test results carried out according to the **EN 1935:2002 standard** (see the Savio website under Technical Documentation, selecting the Certification section).

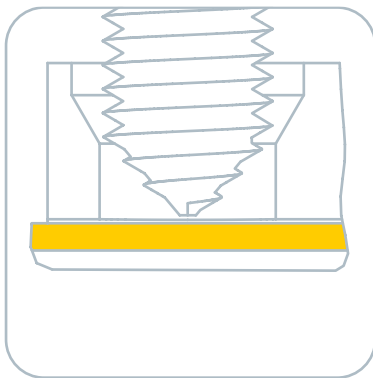


### Record-breaking fastening strength.

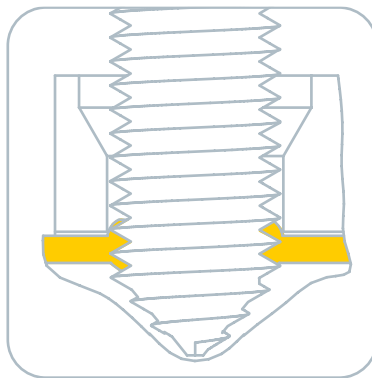
The special tapered pointed shape of Fixia ensures a very solid grip on the profile by increasing the thread's gripping thickness. In fact, during insertion, the screw gradually widens the hole and doubles the profile thickness at the thread location. This process, called re-threading, allows for a strong and durable fastening.

## Innovative fastening

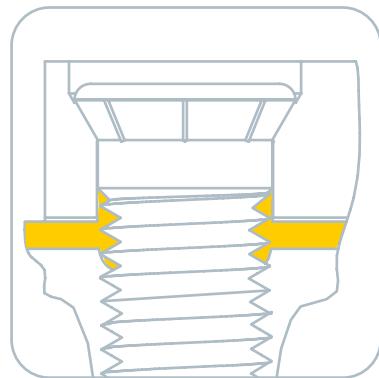
The **FIXIA** screw enables a very secure fastening to the profile. Thanks to its special tapered tip shape, it increases the gripping thickness of the thread created in the aluminum profile. During insertion, the screw gradually widens the hole and doubles the thickness at the thread location. This re-threading allows for very high tightening torques, resulting in an extremely strong fastening.



Gradual and effortless insertion.



Increase in profile thickness (at the thread location).

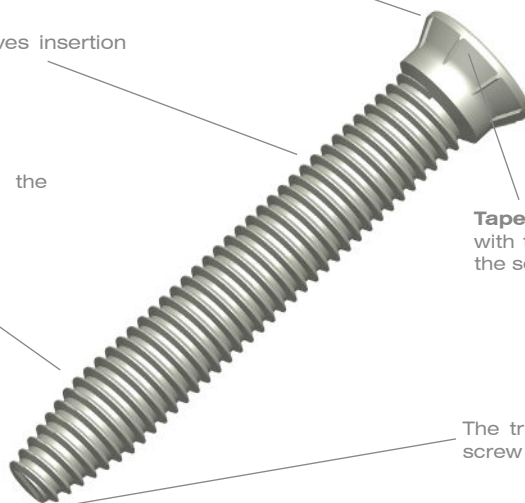


The profile is compressed against the hinge hole, forming a collar that eliminates play between the screw, hinge, and profile.

**Knurling:** allows high tightening torques, ensures a permanent and irreversible lock, and prevents hinge deformation.

**Lubricant coating:** improves insertion smoothness.





The special shape makes the re-threading gradual.



**Taper:** perfectly aligns the profile holes with the hinge, eliminating play between the screw and the hinge

The trilobate tip allows gradual and effortless screw insertion and promotes thread formation.

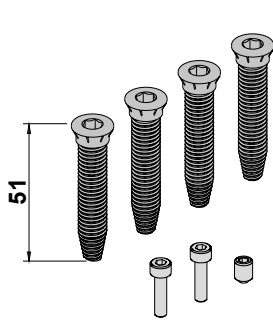
**FIXIA fixing kit for Mechanica with 2 and 3 wings**

	Item	Description	Pcs.
	1145.741	(Pat.) Fixing kit for Mechanica 2-wing hinges composed of: 4 special screws 51 mm long. Load capacity: 230 kg (standard EN 1191:2002). For use on emergency exit doors, refer to the test results carried out according to standard EN 1935:2002.	20
1145.745	(Pat.) Same as 1145.741 but with 4 special screws 63 mm long.		
	Item	Description	Pcs.
	1145.743	(Pat.) Fixing kit for Mechanica 3-wing hinges composed of: 6 special screws 51 mm long. Load capacity: 230 kg (standard EN 1191:2002). For use on emergency exit doors, refer to the test results carried out according to standard EN 1935:2002.	20
1145.747	(Pat.) Same as 1145.743 but with 6 special screws 63 mm long.		
	Item	Description	Pcs.
	1145.755	(Pat.) Fixing kit for Mechanica 2-wing hinges composed of: 2 special screws 51 mm long. Load capacity: 230 kg (standard EN 1191:2002). For use on emergency exit doors, refer to the test results carried out according to standard EN 1935:2002.	20
1145.757	(Pat.) Same as 1145.755 but with 2 special screws 63 mm long.		
	Item	Description	Pcs.
	1145.752/7	(Pat.) 7 mm aluminum step, 2 special screws 59 mm long. To be paired with FIXIA kits art. 1145.755/.757.	50
	1145.752/8	(Pat.) Same as 1145.752/7 but 8.5 mm.	
1145.752/10	(Pat.) Same as 1145.752/7 but 10 mm.		

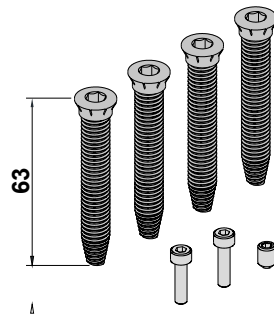
## Standard fixing kit for Mechanica 2 and 3 wing hinges

	Item	Description	Pcs.
	1145.721	(Pat.) Fixing kit for Mechanica 2-wing hinges composed of: 4 special screws 48 mm long. Load capacity: 120 kg.	20
1145.725	(Pat.) Same as 1145.721 but with 4 special screws 58 mm long.		
	Item	Description	Pcs.
	1145.723	(Pat.) Fixing kit for Mechanica 3-wing hinges composed of: 6 special screws 48 mm long. Load capacity: 120 kg.	20
1145.727	(Pat.) Same as 1145.723 but with 4 special screws 58 mm long.		
	Item	Description	Pcs.
	1145.765	(Pat.) Fixing kit for Mechanica 2-wing hinges composed of: 2 special screws 48 mm long. Load capacity: 120 kg.	20
1145.767	(Pat.) Fixing kit for Mechanica 2-wing hinges composed of: 2 special screws 58 mm long and 1 TCEI screw. Load capacity: 120 kg.		
	Item	Description	Pcs.
	1145.762/7	(Pat.) Aluminum step 7 mm thick, 2 special screws 59 mm long. To be paired with kits art. 1145.765/.767.	50
	1145.762/8	(Pat.) Same as 1145.762/7 but 8.5 mm thick.	
1145.762/10	(Pat.) Same as 1145.762/7 but 10 mm thick.		

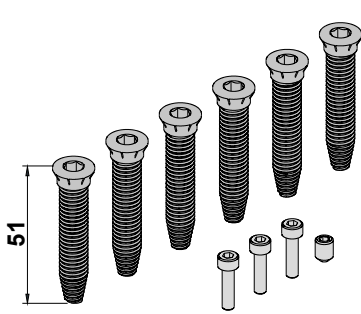
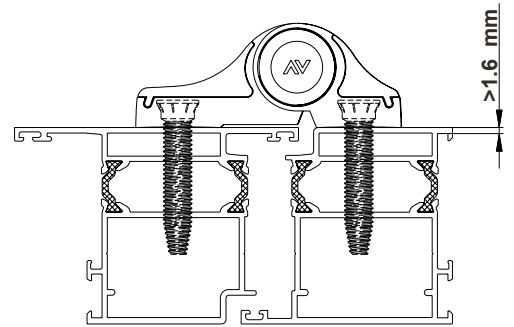
FIXIA fixing kit



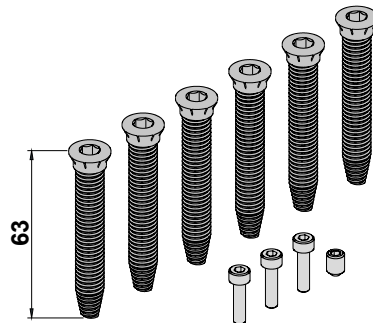
1145.741



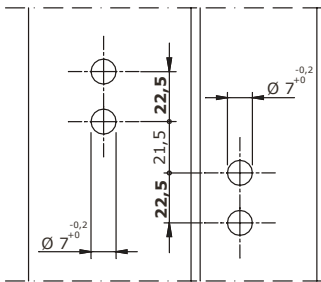
1145.745



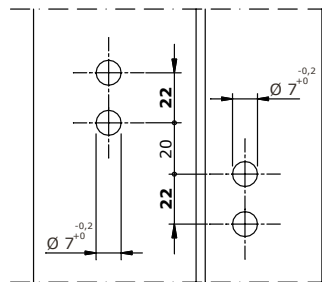
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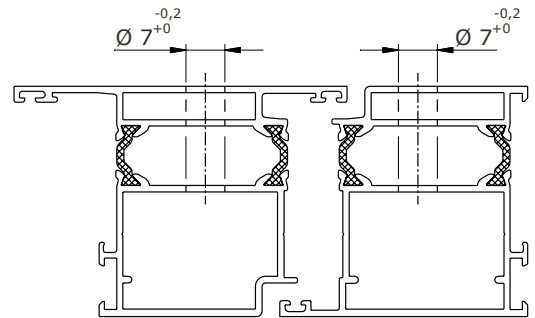
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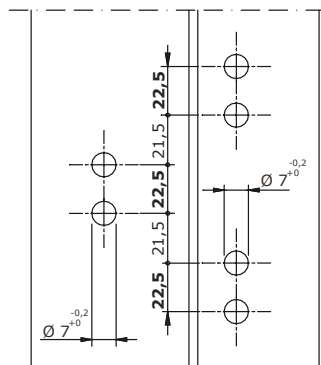
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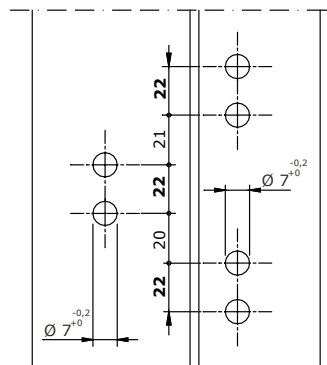
1146/..



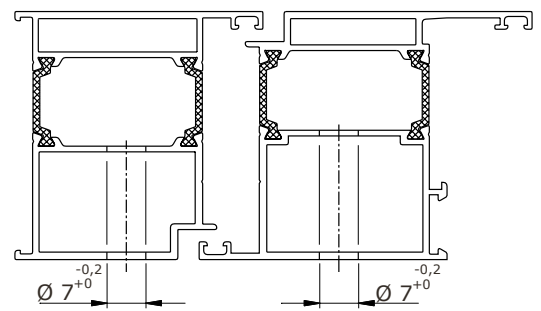
External opening



1145.3/..

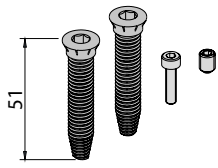


1146.3/..

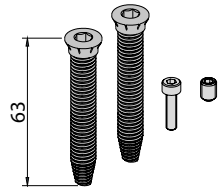


Internal opening

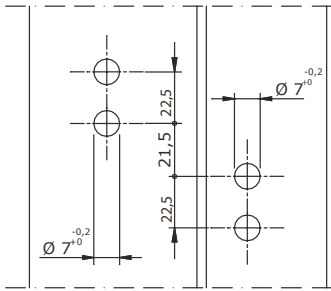
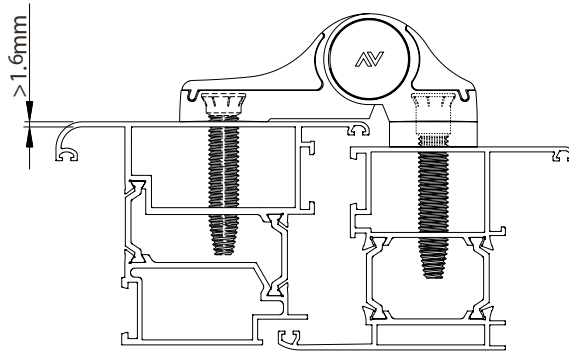
FIXIA fixing kit



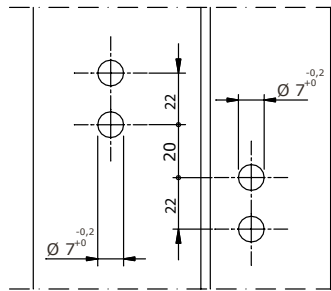
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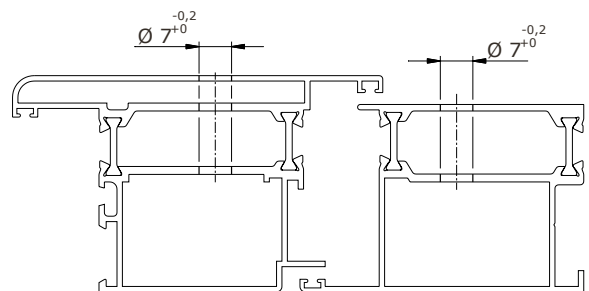
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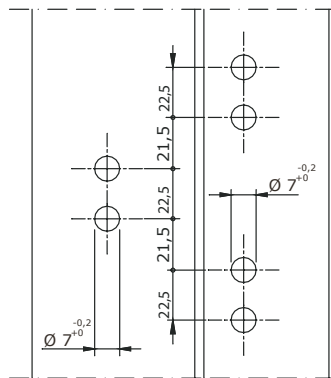
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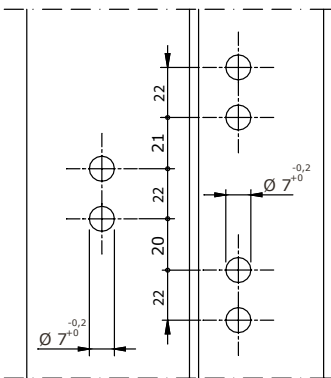
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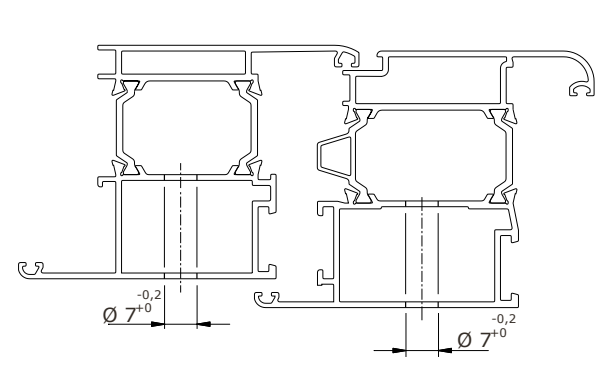
External opening



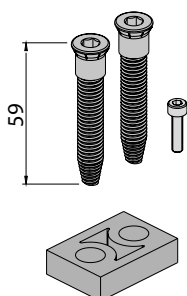
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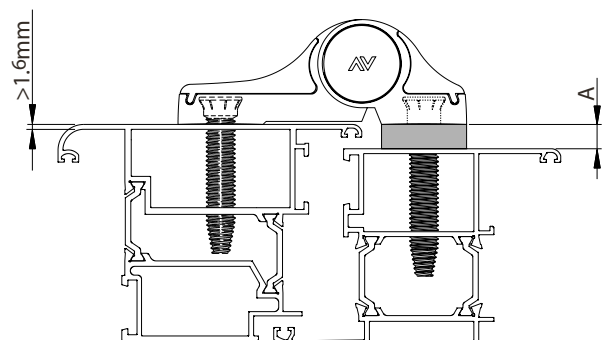
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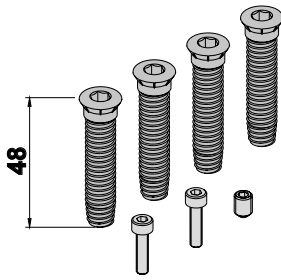
Internal opening



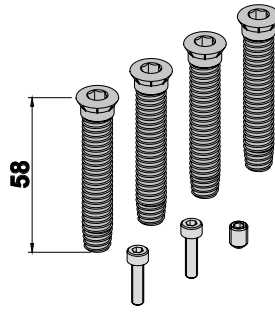
A mm	Articles
7	1145.752/7
8.5	1145.752/8
10	1145.752/10



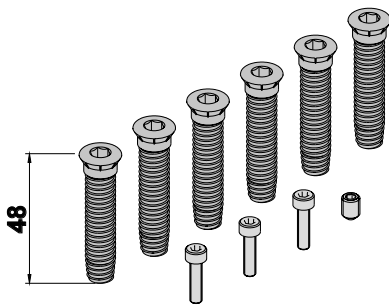
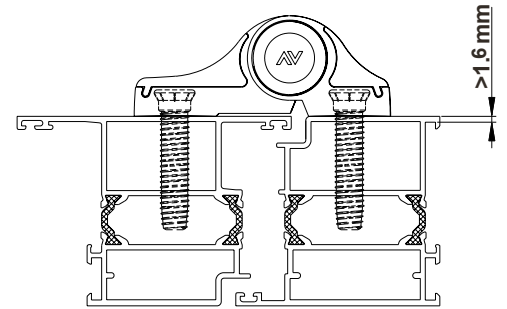
Standard fixing kit



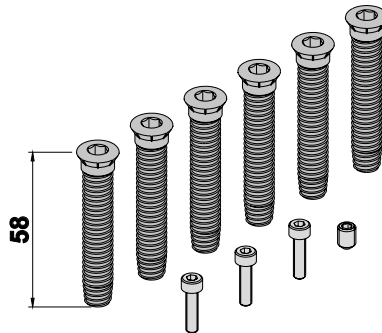
1145.721



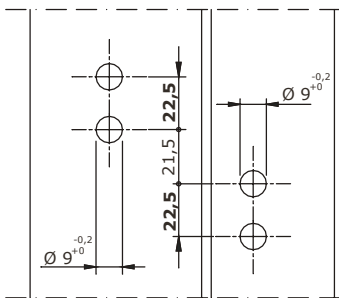
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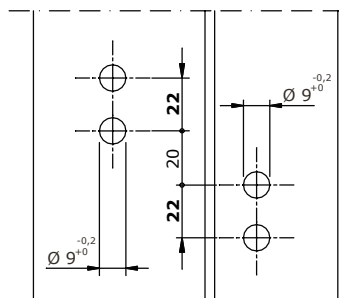
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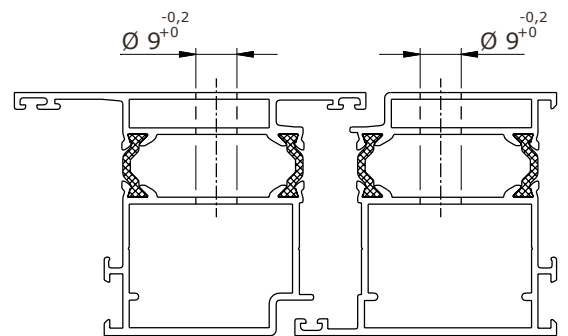
1145.727



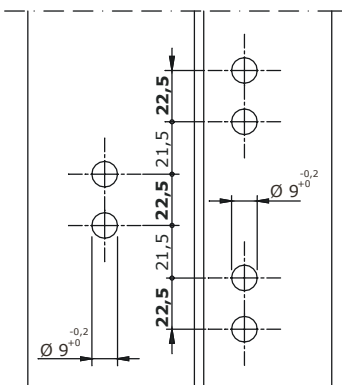
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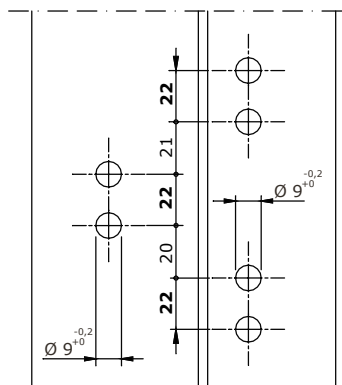
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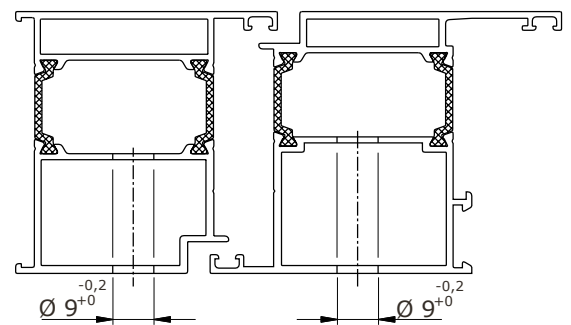
External opening



1145.3/..

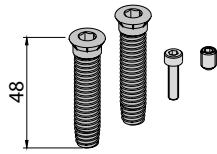


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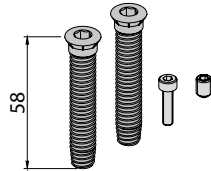


Internal opening

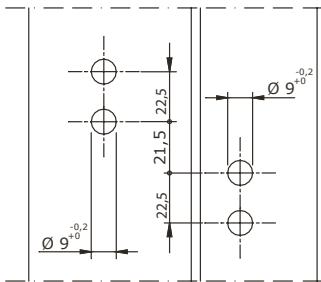
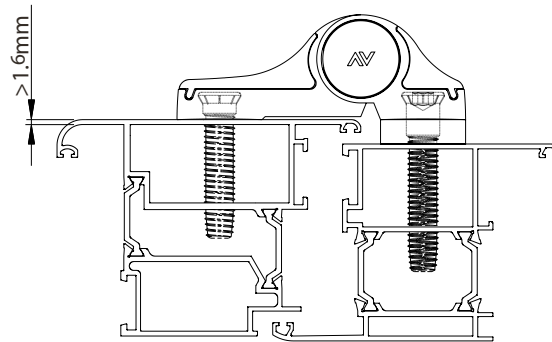
Standard fixing kit



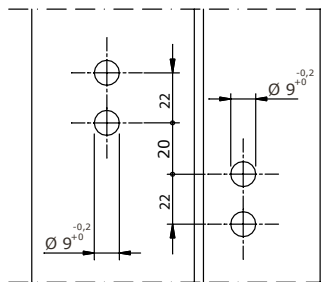
1145.765



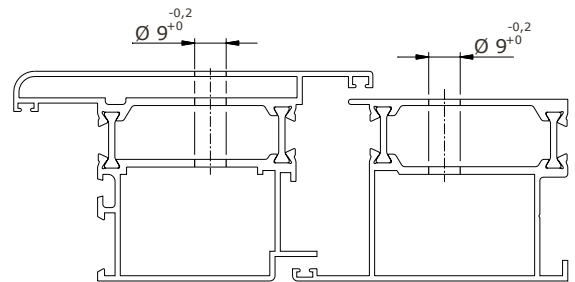
1145.767



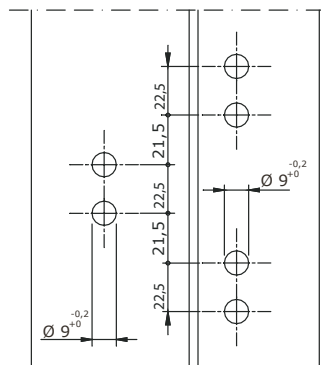
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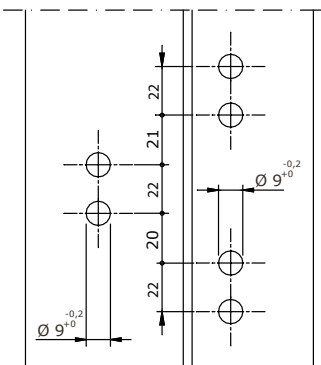
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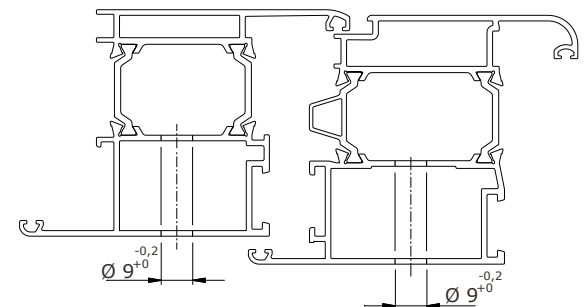
External opening



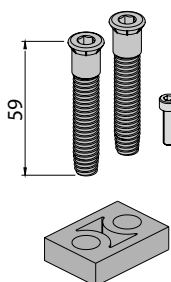
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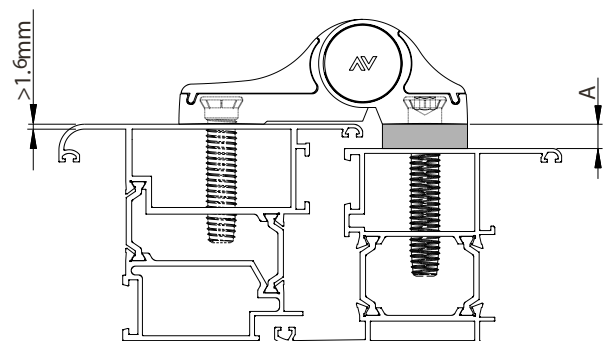
1146.3/..



Internal opening



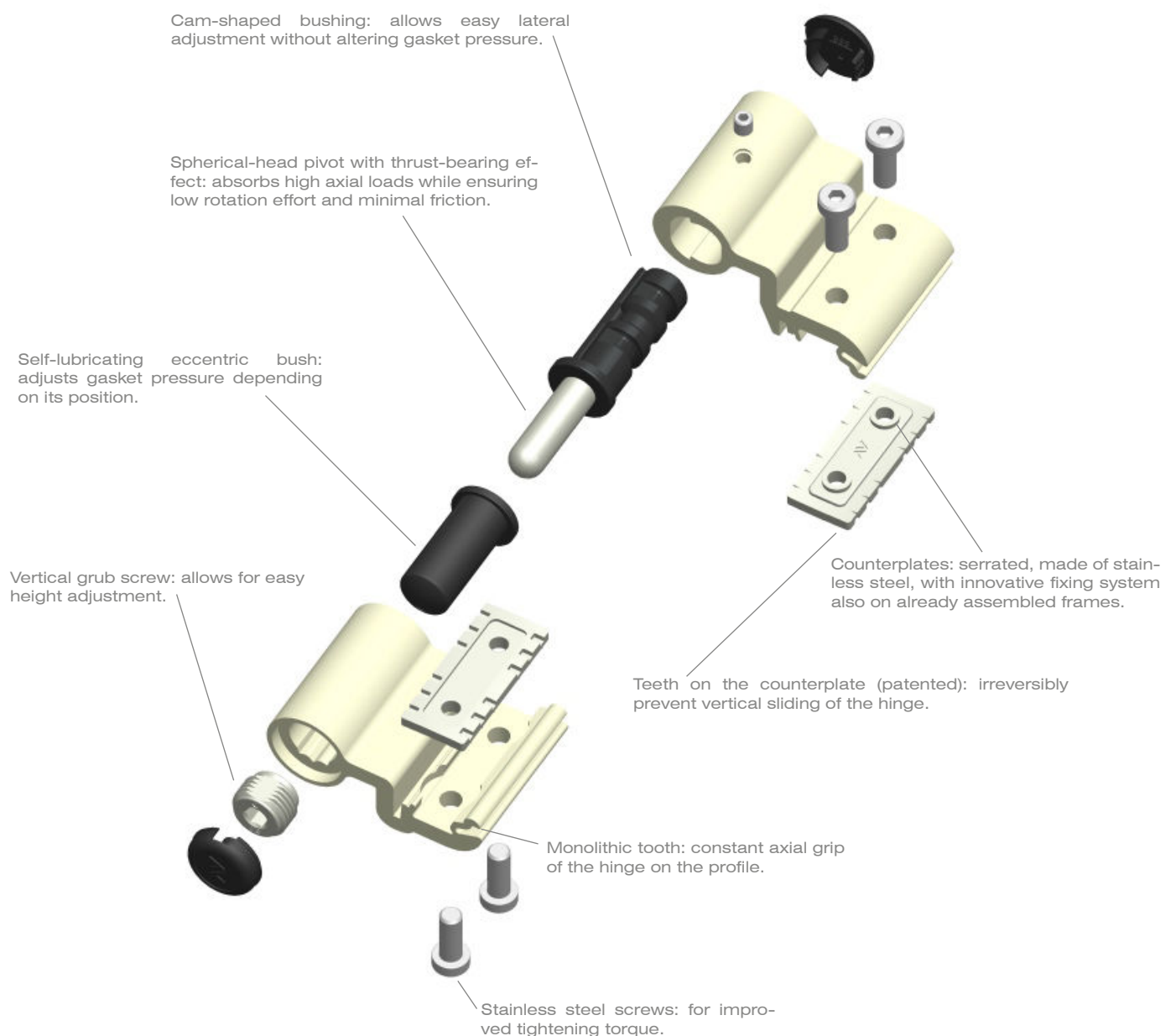
A mm	Articles
7	145.762/7
8.5	145.762/8
10	1145.762/10



# Mechanica

Heavy-duty adjustable hinges to be hooked in the **rebate**.

- Quick and precise fastening and installation, even on already installed frames
- Easy and independent adjustments
- Load capacity verified according to EN 1935:2002 standard
- Suitable for all door profiles with standard groove



**MECHANICA hook-on hinge**



Item	Description	Pcs.
1148	(Pat.) Adjustable 2-leaf hook-on hinge aluminum 15.5 mm pivot point 2 anti-slip counterplates.  Load capacity - 2 hinges 80 kg - 3 hinges 100 kg	20
1148.4	(Pat.) Same as 1148 and realignable after light adjustment.	

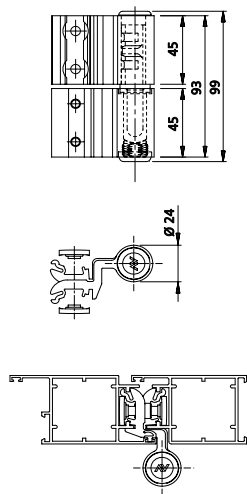


Item	Description	Pcs.
1148.3	(Pat.) Adjustable 3-leaf hook-on hinge aluminum 15.5 mm pivot point 3 anti-slip counterplates.  Load capacity: - 2 hinges 100 kg - 3 hinges 120 kg	10

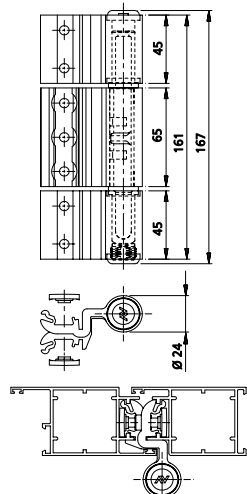


Item	Description	Pcs.
1143.35	(Pat.) Adjustable 3-leaf hinge for internal openings, hook-on, aluminum, 15 mm pivot point, aluminum counterplates, self-lubricating nylon bushes, stainless steel pins.  Load capacity: - 2 hinges 100 kg - 3 hinges 120 kg	10
1143.36	(Pat.) Adjustable 3-leaf hinge for external openings, hook-on, aluminum, 15 mm pivot point, aluminum counterplates, self-lubricating nylon bush, stainless steel pins.  Load capacity: - 2 hinges 120 kg - 3 hinges 140 kg	

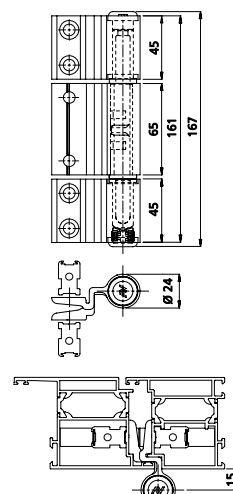
**MECHANICA hook-on hinge**



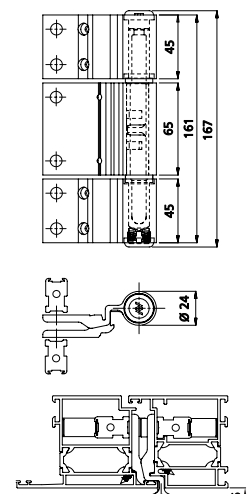
1148/4



1148.3



1143.35



1143.36



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