



**Air**

***SALICE***



## Air - The truly concealed hinge



Air is an innovative and revolutionary hinge which, despite its compactness and small size, delivers full functionality to furniture manufacturers.

This hinge offers complete three-directional adjustability and is available in three functional variations: unsprung for free movement, integrated soft-close for controlled deceleration, and Push-to-Open for handle-free applications.

Air is inserted into the top and bottom of the cabinet and the door and is practically invisible.

Its small size means that the applications for Air are numerous: kitchens, bathrooms, living- and bedroom furniture or display cabinets.

This aluminum profile, which includes the working for the hinges, is designed to be installed on both top and bottom panels, eliminating cabinet modifications and streamlining hinge attachment.



Air



Technical features

**Air hinges, with integrated soft close mechanism or Push self-opening system, are small and compact. They are fitted to the top and bottom panel of the cabinet.**

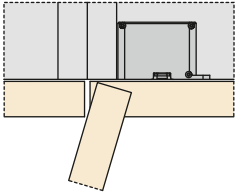
For min. 18 mm thick wooden doors and for aluminium-framed doors.  
Max. door weight 25 Kg.  
Max. dimensions of the door : height 2700 mm, width 600 mm.  
16.5 mm deep metal cup.  
L = 2.5 mm  
105° opening.  
Possible drilling distance on the door (K): from 4 to 6 mm for wooden doors.  
Fixed K = 4 mm for aluminium-framed doors.

Space needed to open the door

The above values are calculated on the assumption that the doors have square edges. They are reduced if the doors have radiussed edges.

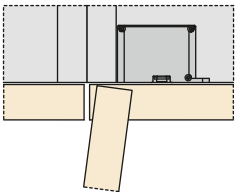
	T=	18	20	22	24	26	28	30	32
K=4	A=	0	0.2	0.4	0.8	1.3	3.9	6.5	9.0
K=5	A=	0	0.2	0.4	0.8	1.3	2.9	5.5	8.0
K=6	A=	0	0.2	0.4	0.8	1.2	1.9	4.5	7.0

105° door opening



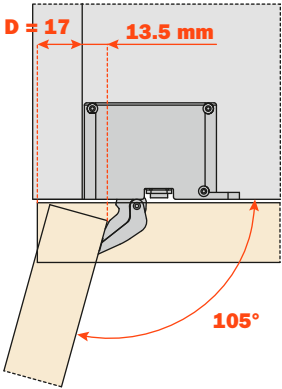
	T=	28	30	32
K=4	A=	1.8	3.2	4.8
K=5	A=	1.7	2.8	4.3
K=6	A=	1.6	2.8	4.0

Door opening with stop device at 92°

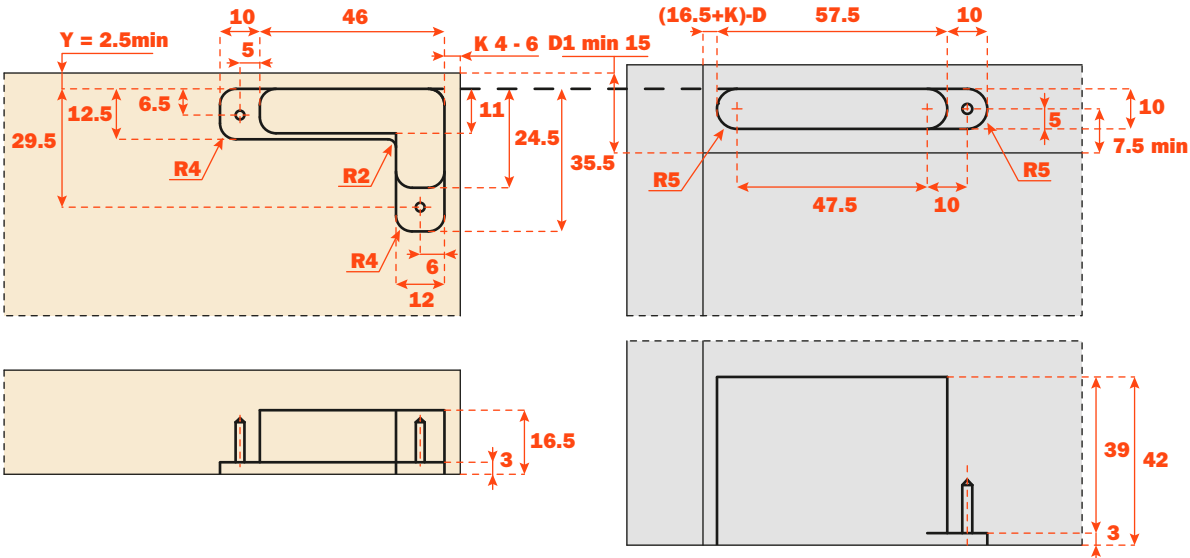


Projection of the door

Projection of the door from the cabinet side at the max. opening. The figures are based on K value = 4 and door overlay = 17 mm.



Drilling scheme for the hinge



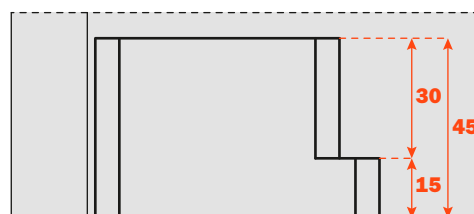
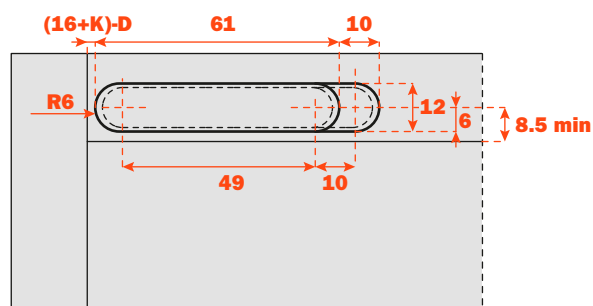
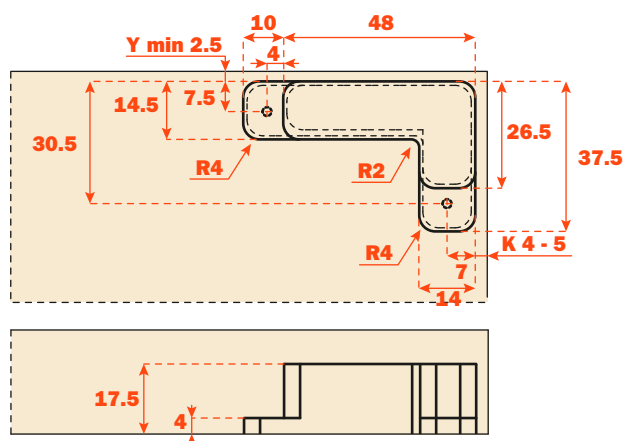
## Workings on the wooden door for holders

Air can be equipped with holders for the hinge cup and arm. The holders are inserted respectively into the door and the cabinet and make the insertion of the hinge easier as well as hiding any surface imperfections caused by the machining of the cabinet.

The holder for the arm, which is inserted into the panel, provides additional support for Air when it is used in thinner materials. We recommend the use of a low-expansion, single-component polyurethane adhesive, suitable for bonding wood to metal.

Moreover, to supplement the adhesive bond, it is possible to insert two 3.5x20 screws (not supplied) through the bottom of the holder.

The holders are available in two colours, for hinges with nickel-plated and titanium finish.

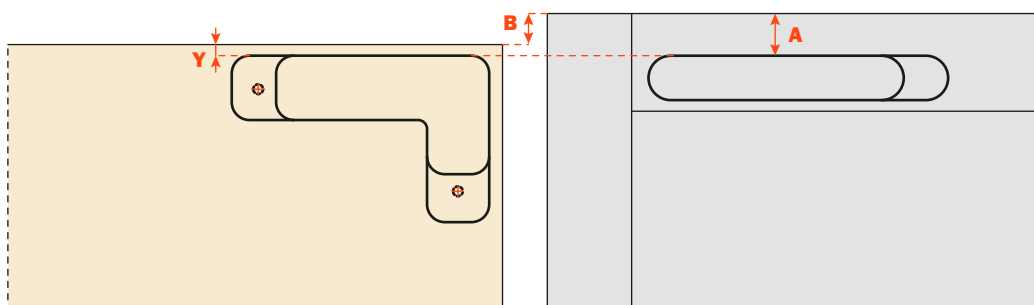


## Formulas to determine the distance for the insertion of the holders for arm.

$$A = B + Y$$

$$B = A - Y$$

$$Y = A - B$$





## Air - Workings on the aluminium-framed doors for holders



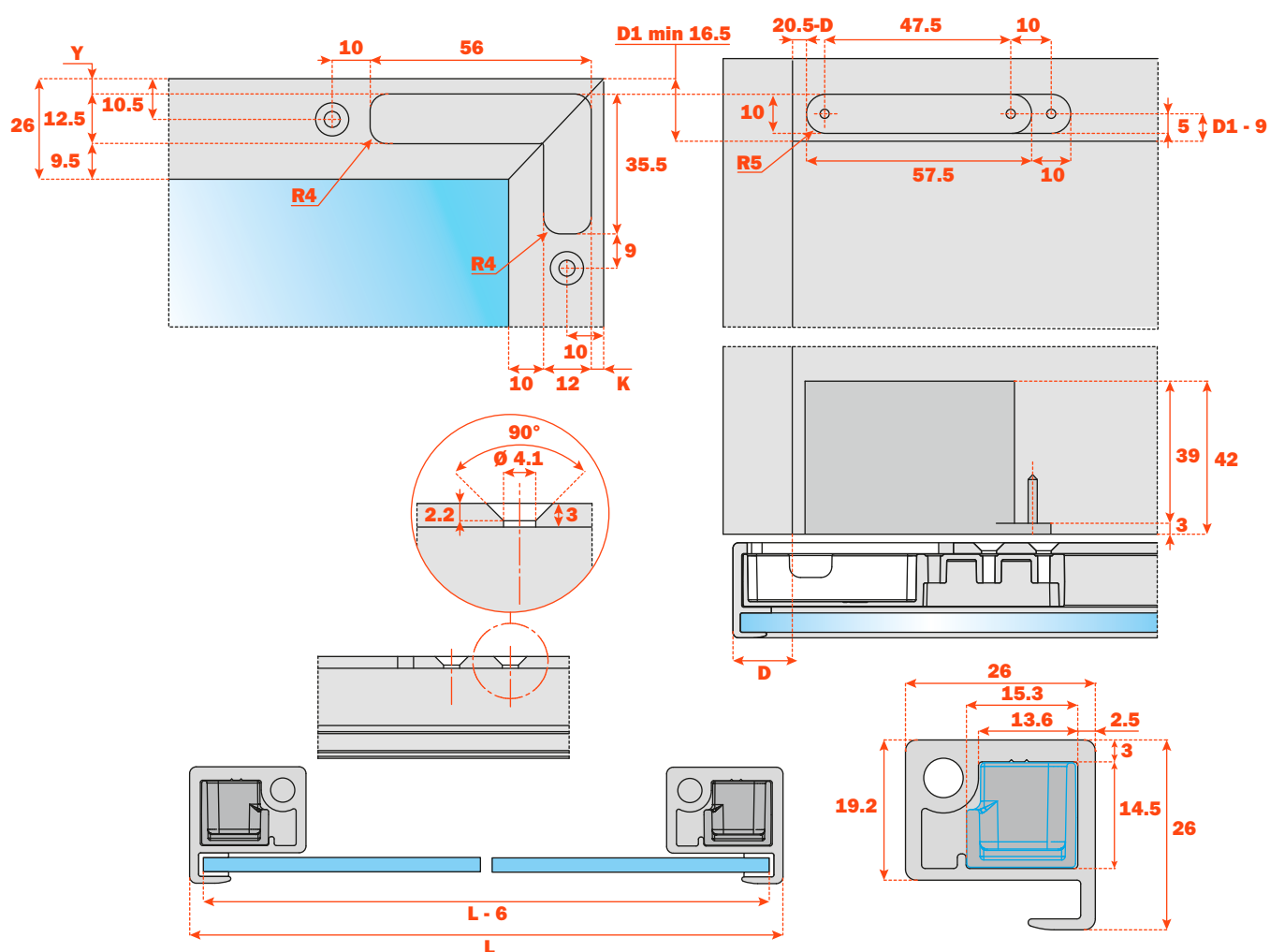
Suitable for the aluminium frame **DEL6LP300\_** with corner connector **DEL6B5FV02**.

For use with doors that have a minimum overlay on the top **16.5 mm**.

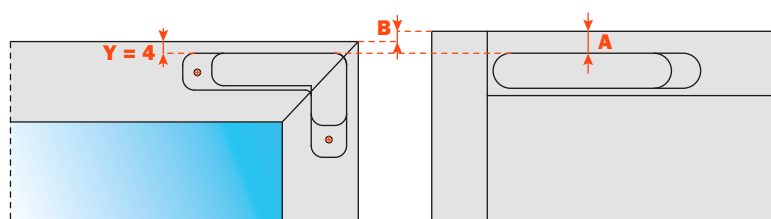
Dimensions of the frame **26x26 mm**.

**Y = 4**

**K = 4**



**Formulas to determine the distance for the insertion of the holders for arm.**



$$A = B + 4$$

$$B = A - 4$$



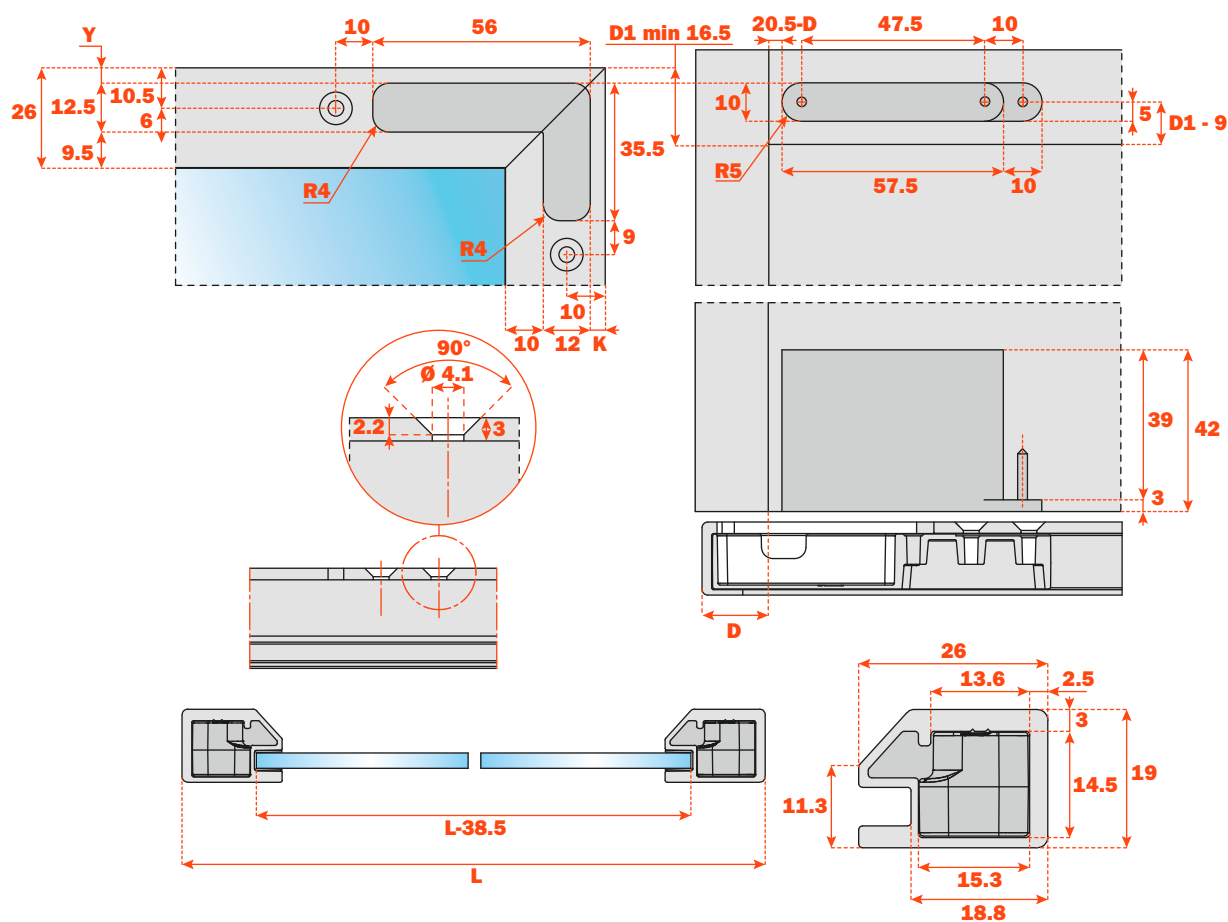
Suitable for the aluminium frame **DEL9LP300\_** with corner connector **DEL6B5FV02**.

For use with doors that have a minimum overlay on the top **16.5 mm**.

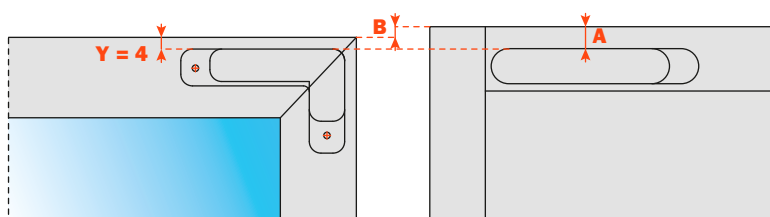
Dimensions of the frame **26x19 mm**.

**Y = 4**

**K = 4**



**Formulas to determine the distance for the insertion of the holders for arm.**





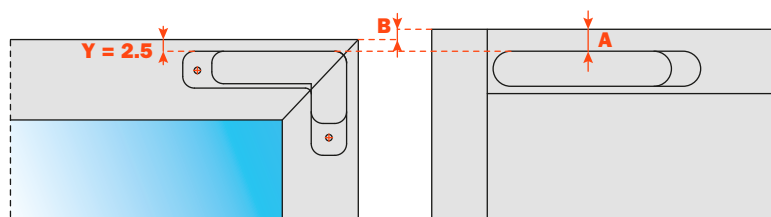
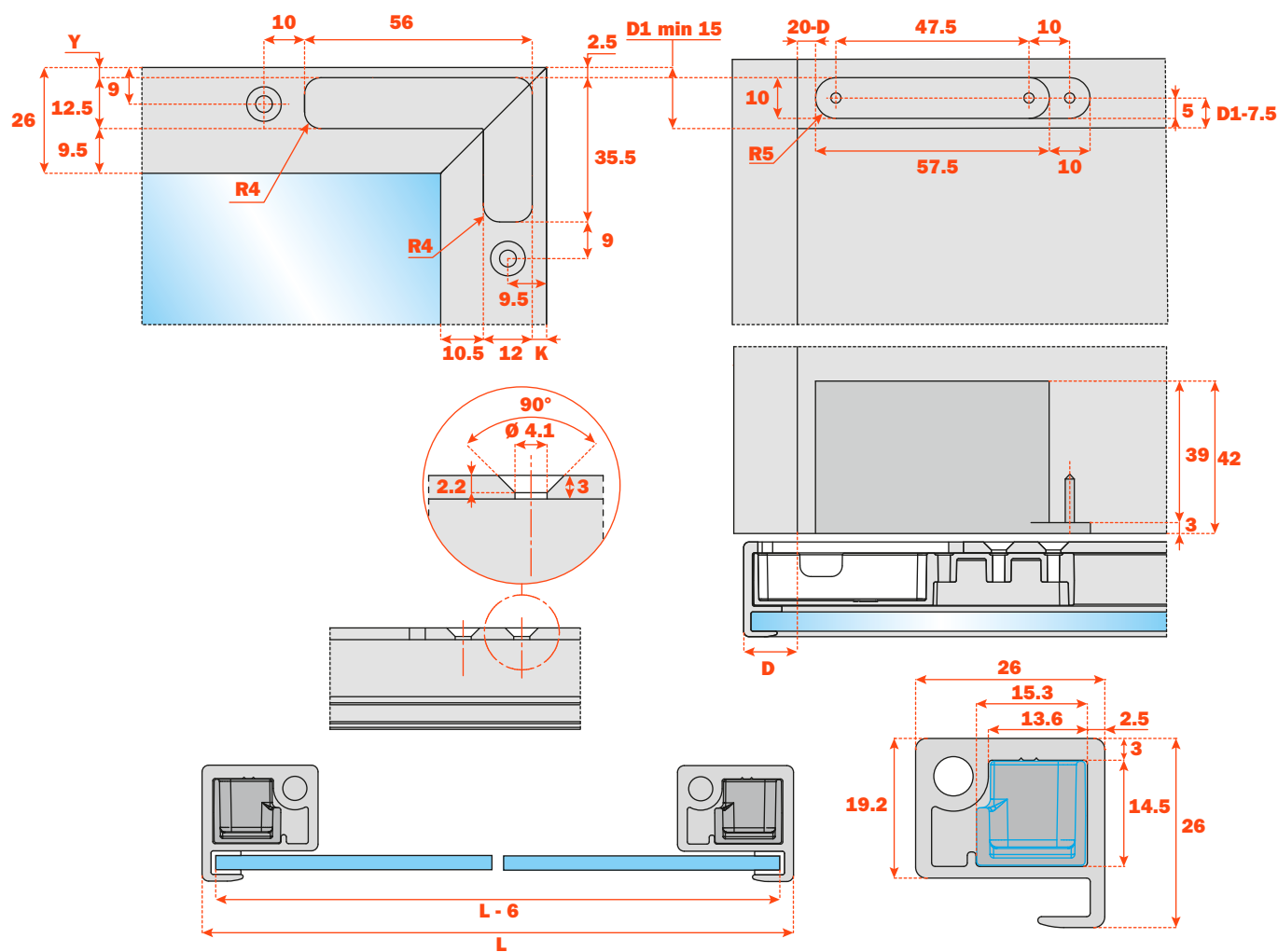
Suitable for the aluminium frame **DEL6LP300\_** with corner connector **DEL5B5FV02**.

For use with doors that have a minimum overlay on the top of **15 mm**.

Dimensions of the frame **26x26 mm**.

**Y = 2.5**

**K = 3.5**



$$A = B + 2.5$$

$$B = A - 2.5$$





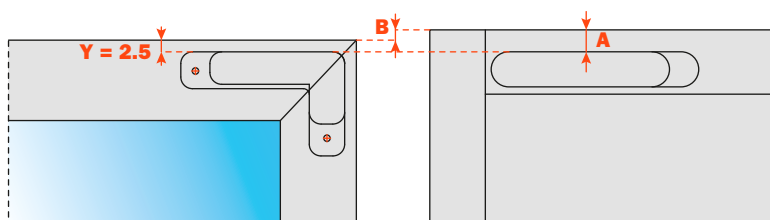
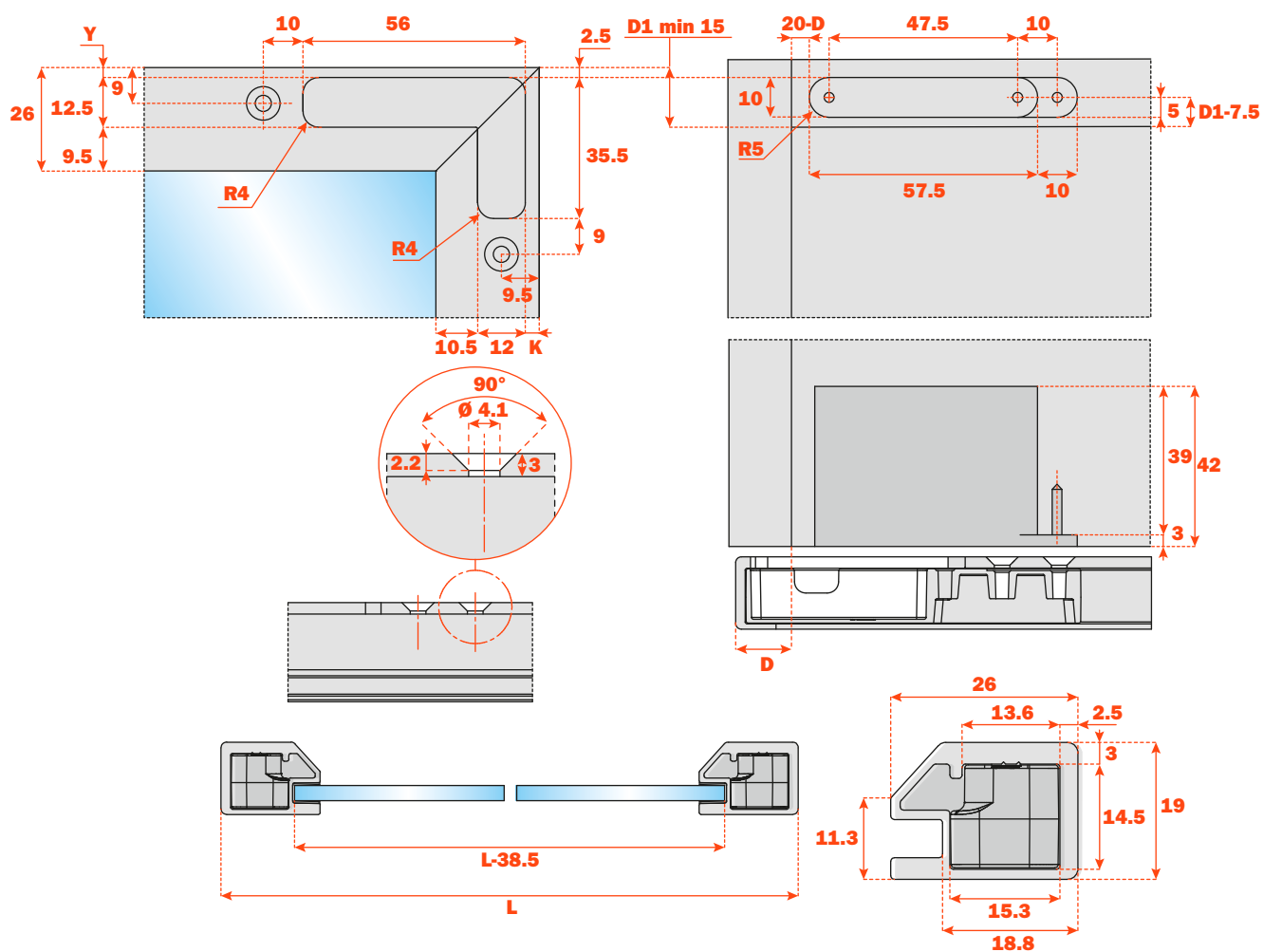
Workings on the aluminium frame **DEL9LP300\_** with corner connector **DEL5B5FV02**.

For doors with min. top overlay of **15 mm**.

For use with doors that have a minimum overlay on the top of **26x19 mm**.

**Y = 2.5**

**K = 3.5**



$$A = B + 2.5$$

$$B = A - 2.5$$

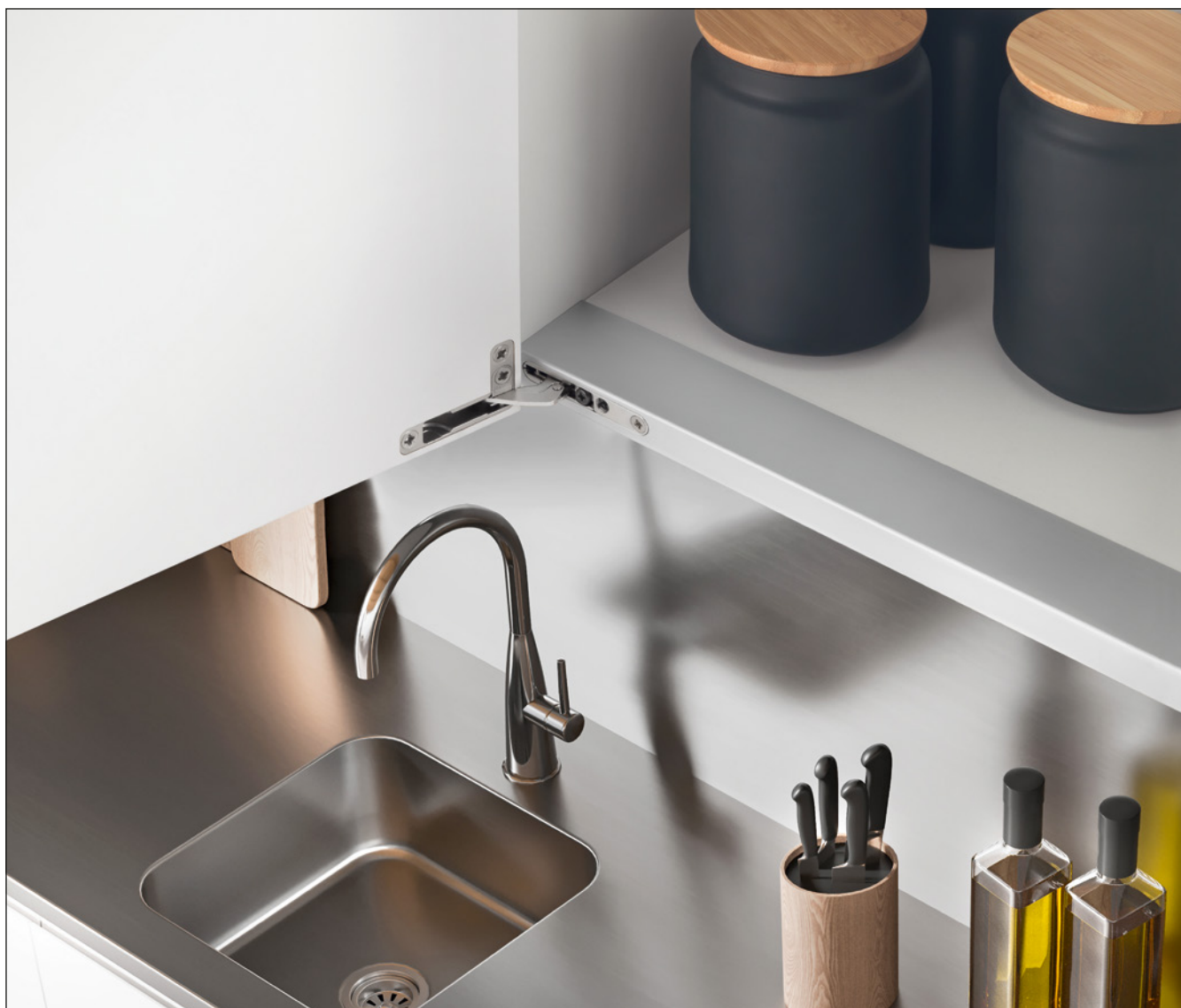




## **Support profile**



## Air - Support profile



The aluminium profile guarantees stable and dependable support, even with oversized or heavy doors.

Directly screwable plates enable rapid and accurate cabinet mounting, and hinge grooves in the profile ensure swift and easy assembly and installation.

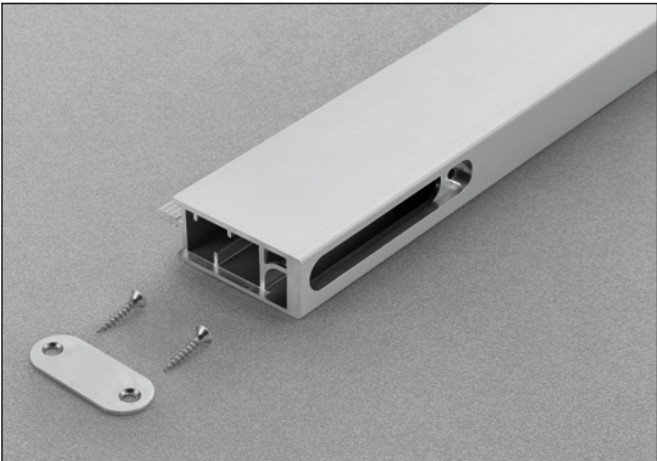
Designed for 16mm or 18mm top and bottom panels, this profile delivers exceptional structural stability and streamlined installation.

Available in two lengths for cabinets 450mm to 600mm, this product ensures versatile application, optimized performance, and reduced assembly time.

An ideal choice to enhance efficiency and precision in furniture assembly.

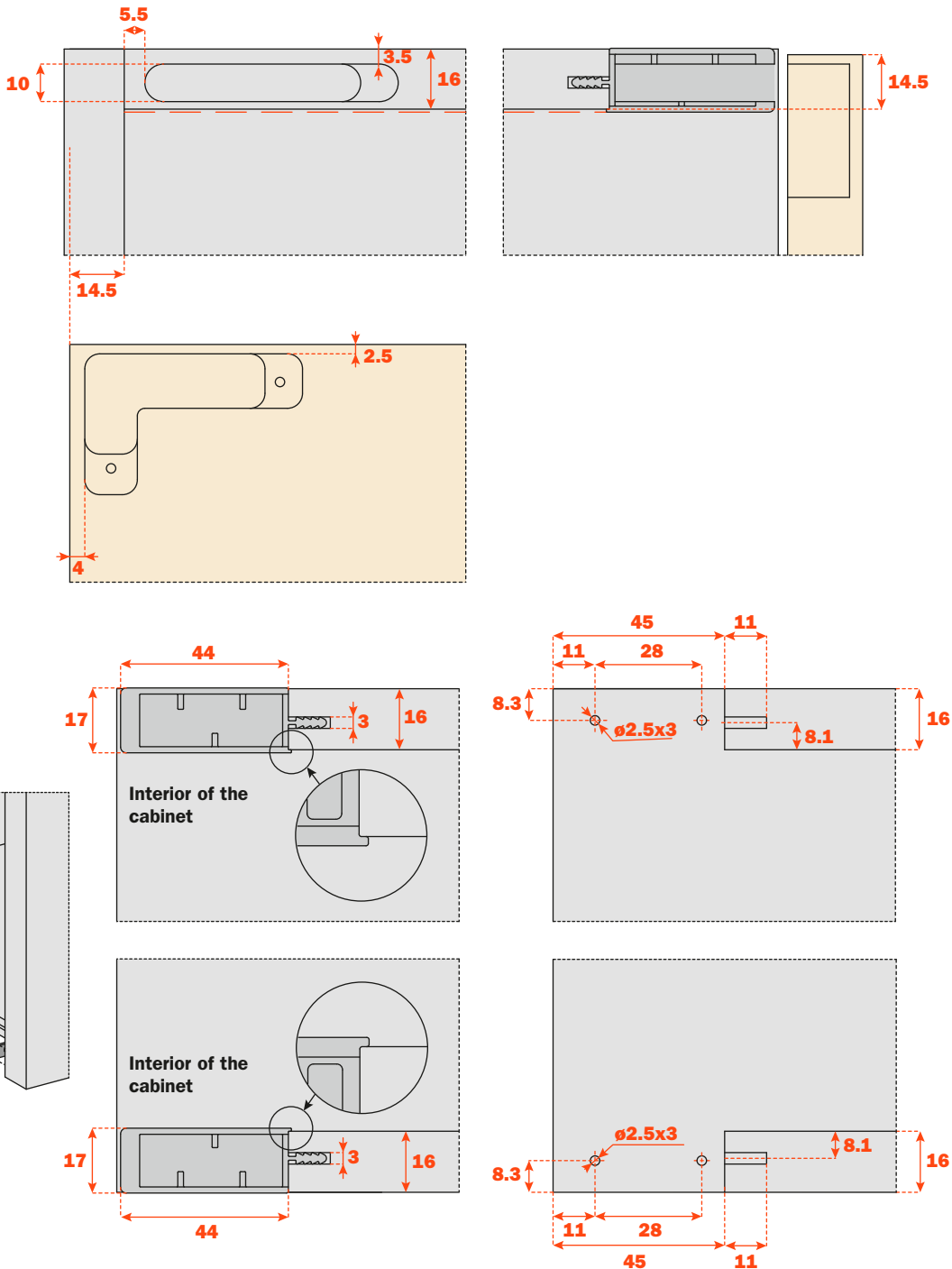


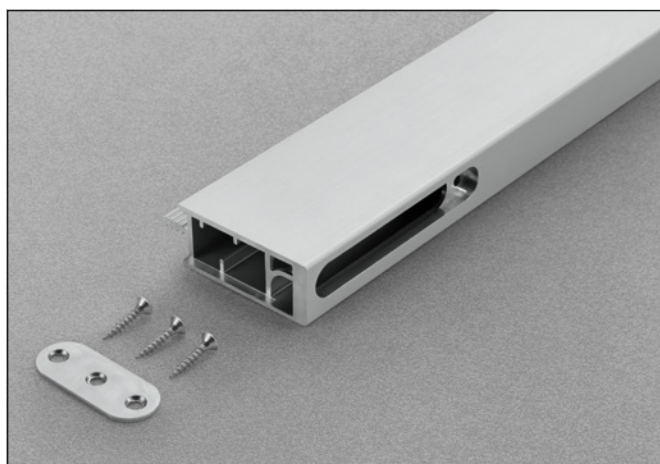
Air - Support profile



Support profile for hinges • thickness 16 mm

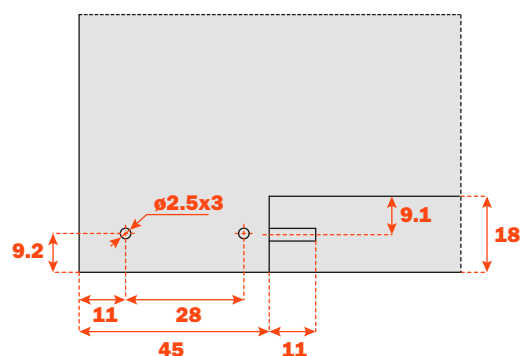
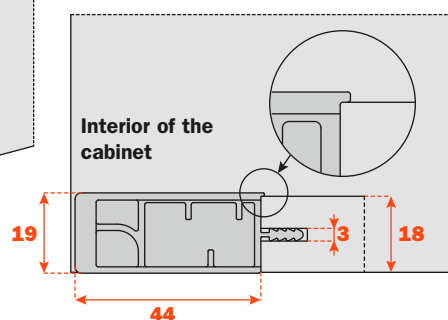
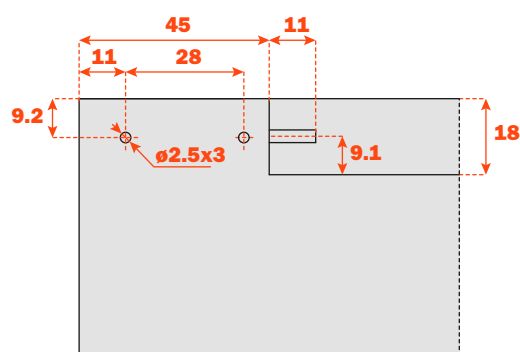
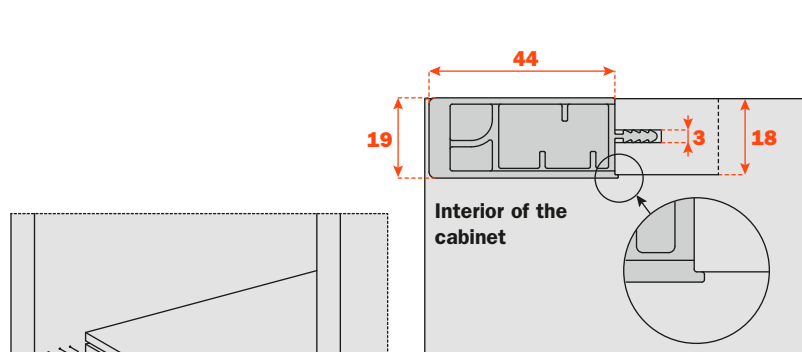
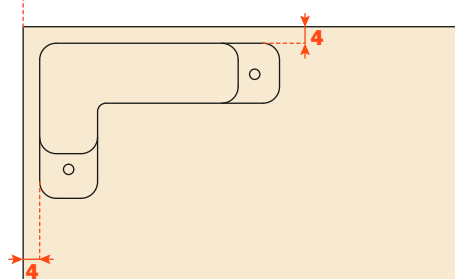
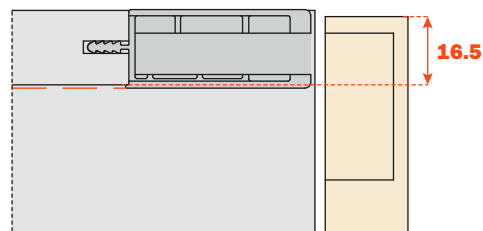
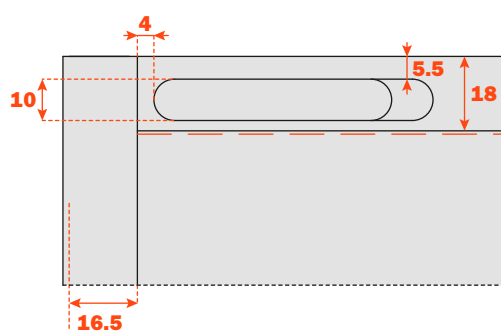
Part number	Packing	Length
DEN6LK417P	2 Pairs of bars in anodised aluminium 4 Plates • 16 Screws	417 mm
DEN6LK417T	2 Pairs of bars in titanium finish 4 Plates • 16 Screws	417 mm
DEN6LK567P	2 Pairs of bars in anodised aluminium 4 Plates • 16 Screws	567 mm
DEN6LK567T	2 Pairs of bars in titanium finish 4 Plates • 16 Screws	567 mm





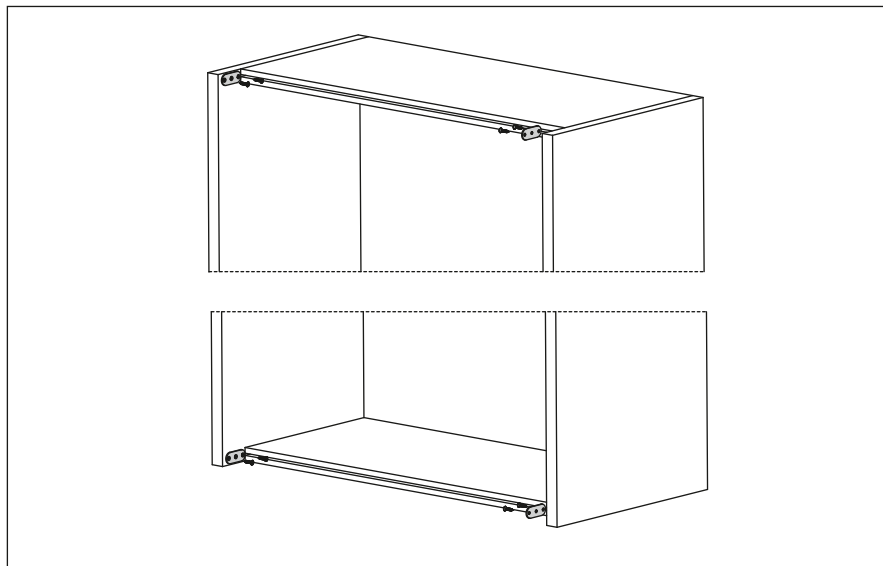
Support profile for hinges • thickness 18 mm

Part number	Packing	Length
<b>DEN8LK413P</b>	2 Pairs of bars in anodised aluminium 4 Plates • 24 Screws	413 mm
<b>DEN8LK413T</b>	2 Pairs of bars in titanium finish 4 Plates • 24 Screws	413 mm
<b>DEN8LK563P</b>	2 Pairs of bars in anodised aluminium 4 Plates • 24 Screws	563 mm
<b>DEN8LK563T</b>	2 Pairs of bars in titanium finish 4 Plates • 24 Screws	563 mm

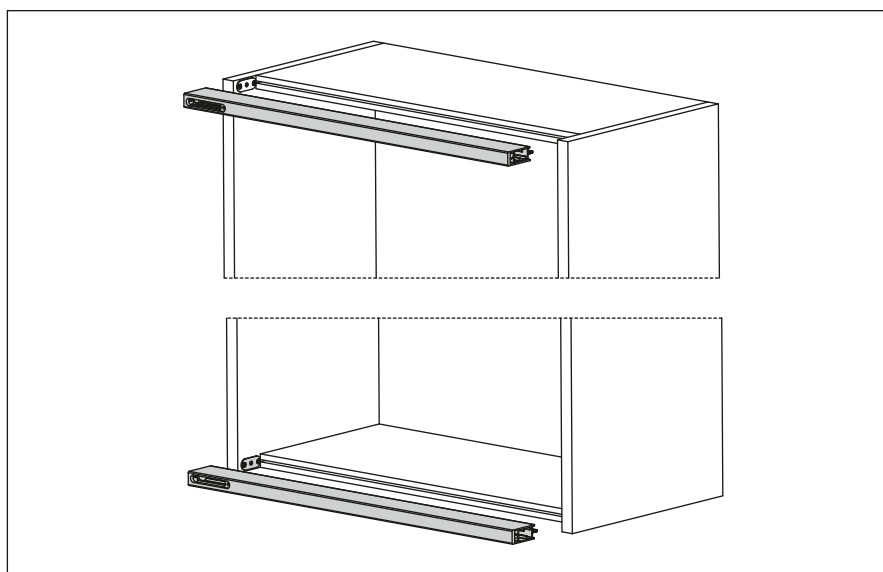
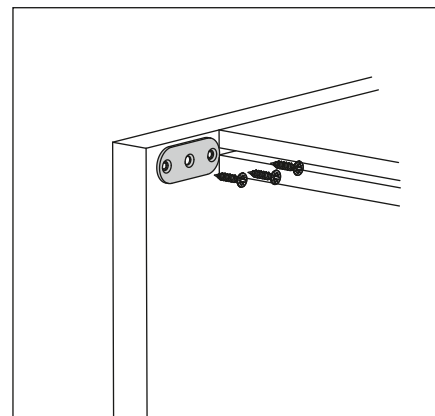


## Air - Support profile – assembly

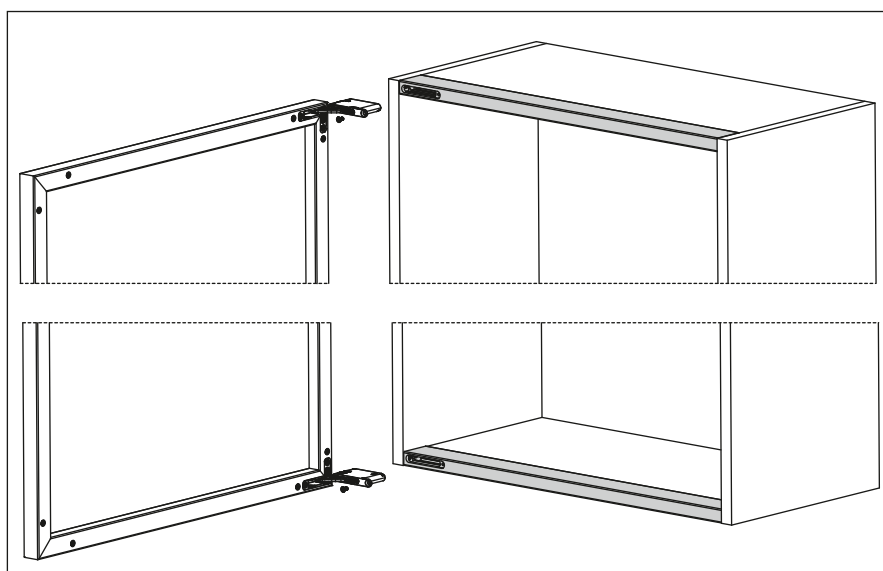
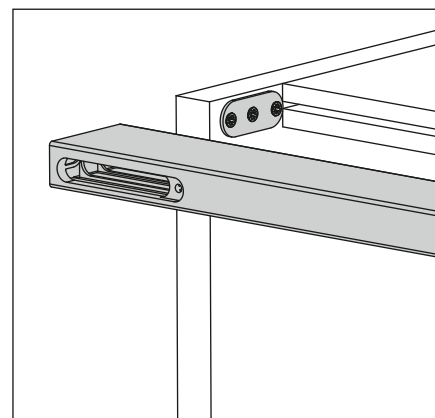
If you are working with particular materials, we advise contacting our technical assistance service for guidance. Please note that Salice cannot be held responsible for issues arising from the use of alternative screws not supplied or improper installation.



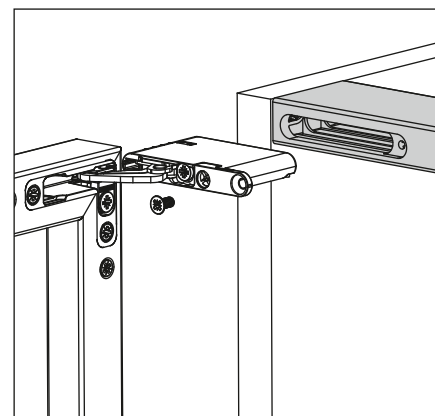
Once the top and base panels are milled, fix the profile support plates



Insert the profile into the plates and the cabinet groove. We recommend using a low-expansion, single-component polyurethane glue, suitable for fixing wood and metal.



Once installation has been completed, insert and fix the hinges into the profile.





## **Accessories**

## Air - Packing

### INDUSTRIAL PACKING



Closing/Opening action	Nickel-plated finish	Titanium finish	Industrial packing
Soft close	<b>CEL6DE9XXI</b>	<b>CEL6DE6XXI</b>	Boxes 100 pcs. Pallets 2.400 pcs. Fixing screws included*
*Push	<b>CELPD99XXI</b>	<b>CELPD66XXI</b>	
Unsprung hinge	<b>CEL4D99XXI</b>	<b>CEL4D66XXI</b>	

\* Use the magnetic release devices (see pages 16 and 17)

Closing/Opening action	Nickel-plated finish	Titanium finish	Industrial packing
Soft close	<b>CEL6SE9XXI</b>	<b>CEL6SE6XXI</b>	Boxes 100 pcs. Pallets 2.400 pcs. Fixing screws included
*Push	<b>CELP9S99XXI</b>	<b>CELP9S66XXI</b>	
Unsprung hinge	<b>CEL4S99XXI</b>	<b>CEL4S66XXI</b>	

\* Use the magnetic release devices (see pages 16 and 17)

### DOOR-SET PACKING



Closing/Opening action	Nickel-plated finish	Titanium finish	Door-set packing
Soft close	<b>CEL6XE9XXV</b>	<b>CEL6XE6XXV</b>	Boxes 72 bags Pallets 864 bags 1 bag contains 1 door-set of hinges and fixing screws
*Push	<b>CELPX99XXV</b>	<b>CELPX66XXV</b>	

\* Use the magnetic release devices (see pages 16 and 17)

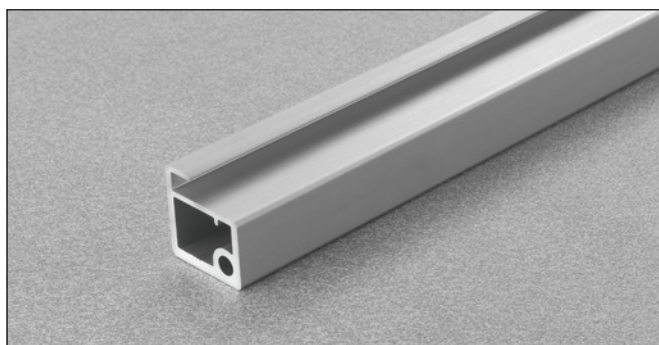


## Accessories for aluminium frame



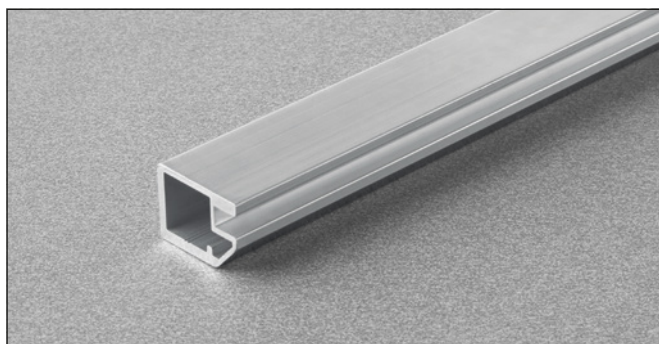
Corner connectors for the frame assembly of the doors and the fixing of the hinge.

Part number	Description	Packing
<b>DEL6BSFV02</b>	For doors with minimum overlay on the top of <b>16.5 mm.</b>	Boxes of 25 bags · 1 bag contains: 4 corner connectors and assembly screws
<b>DEL5BSFV02</b>	For doors with minimum overlay on the top of <b>15 mm.</b>	Boxes of 25 bags · 1 bag contains: 4 corner connectors and assembly screws



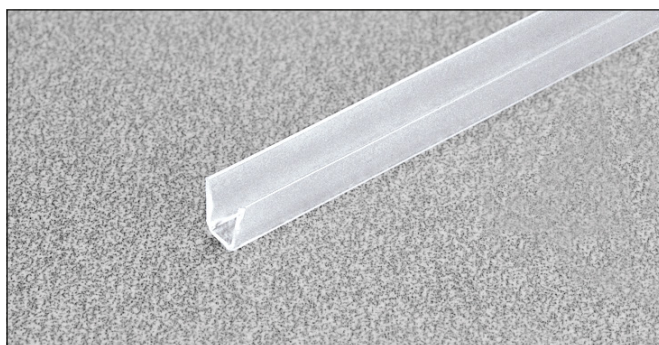
Aluminium door profile, width 26 mm, for glass insertion (4 mm).

Part number	Packing	Length
<b>DEL6LP300P</b>	12 lengths in anodised aluminium	3 metres
<b>DEL6LP300T</b>	12 lengths in Titanium finish	3 metres



Aluminium door profile, width 19 mm, for glass insertion (4 mm).

Part number	Packing	Length
<b>DEL9LP300P</b>	14 lengths in anodised aluminium	3 metres
<b>DEL9LP300T</b>	14 lengths in Titanium finish	3 metres

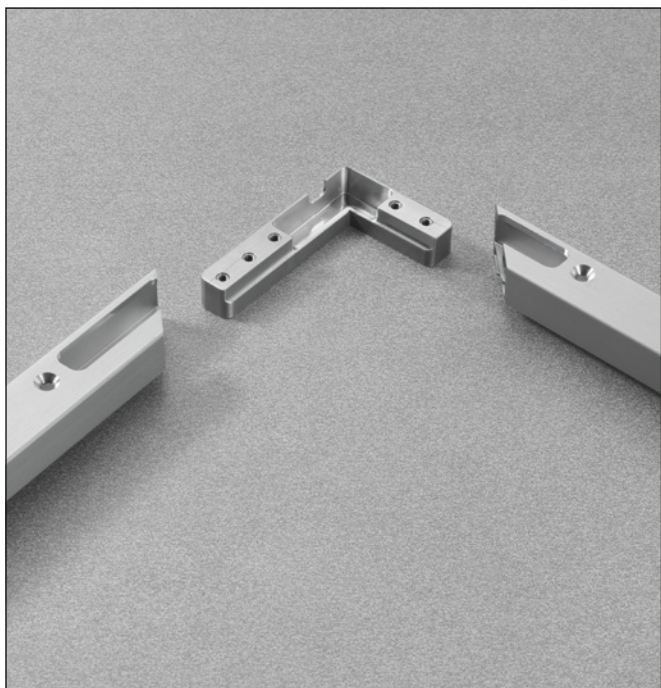


Gasket for glass.

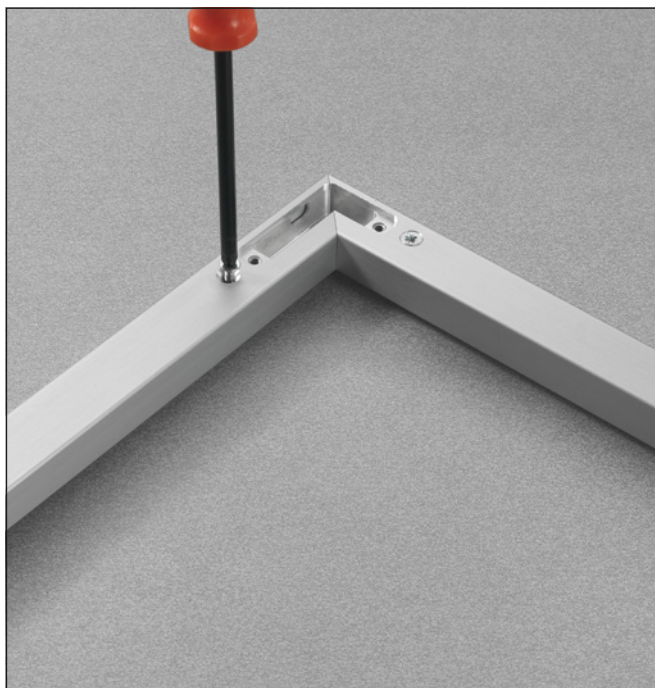
Part number	Packing	Length
<b>D206AG3000</b>	120 gaskets	3 metres

## **Air - Aluminium frame assembly**

The profiles which make up the door must be cut and the ends mitred at 45°, and milled for the insertion of the corner connectors.

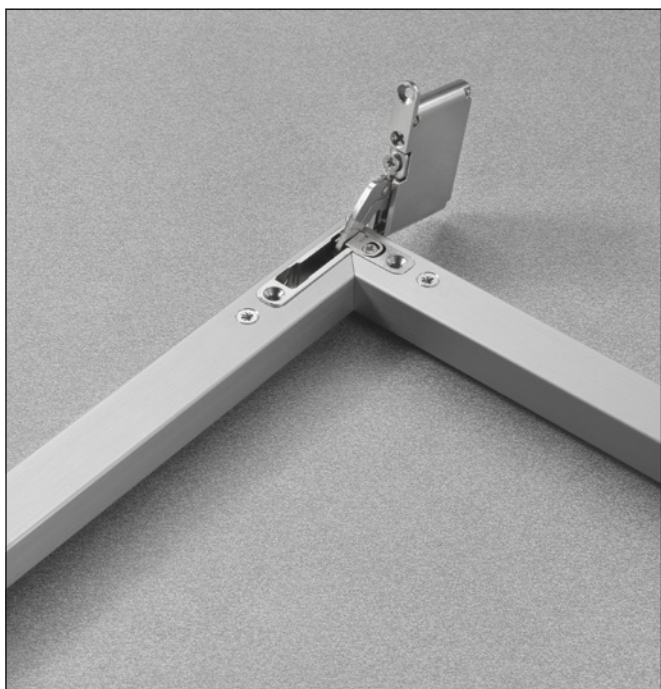


Insert the corner connectors into the profile and fix them with the screws provided.



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Insert the hinges into the recesses.



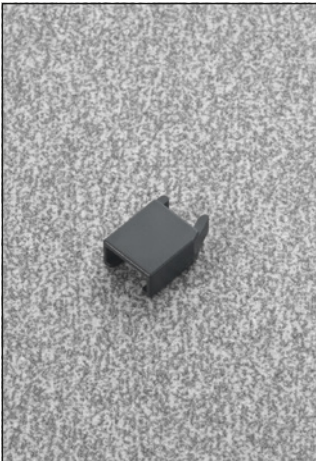
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Fix with the screws provided.



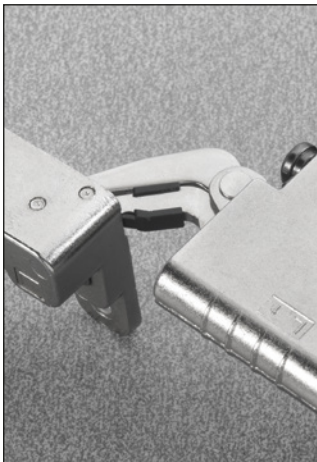


Accessories

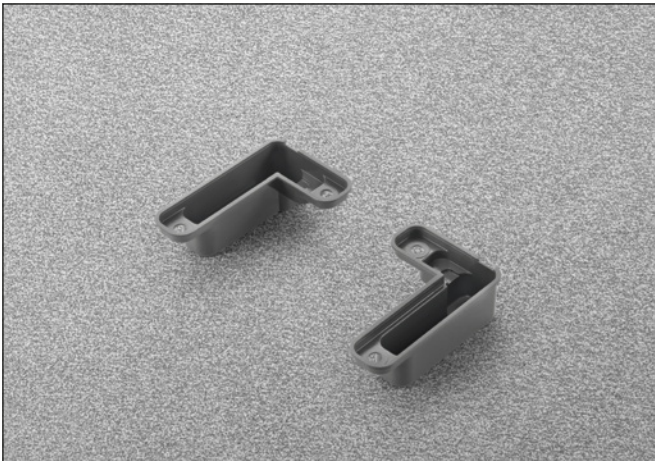


Restrictor to reduce opening angle to 92 deg.

Part number	Packing
<b>SEL637X3</b>	Boxes of 500 pieces



Holders for cup, to be inserted into the door .  
They allow an easier insertion of the hinge as well as hiding any surface imperfections caused by the machining of the door.



Part number	Packing
<b>SELX86X6XD</b>	Boxes of 100 pieces
<b>SELX86X6XS</b>	Boxes of 100 pieces

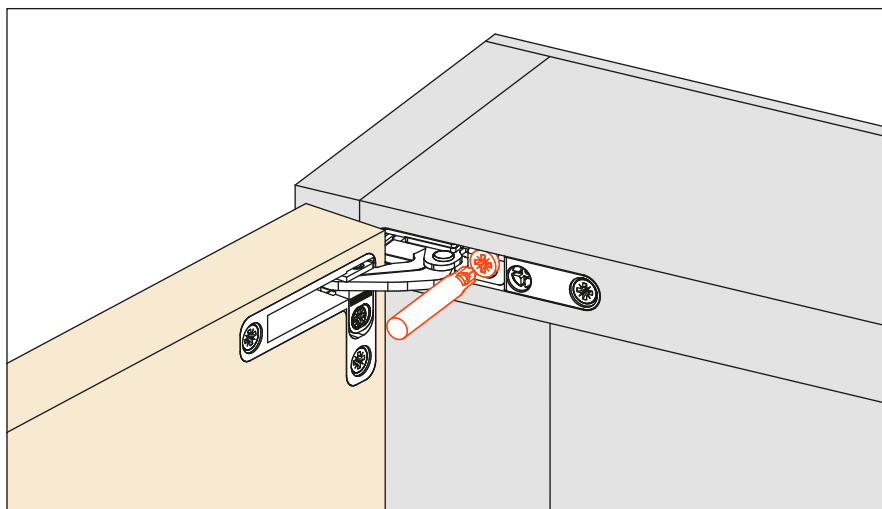
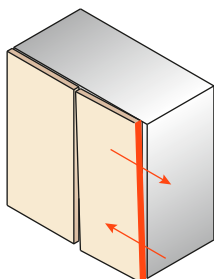


Holders for arm, to be inserted and attached into the top or bottom panel of the cabinet to provide additional support for Air when it is used in thinner materials as well as hiding any surface imperfections caused by the machining of the cabinet.

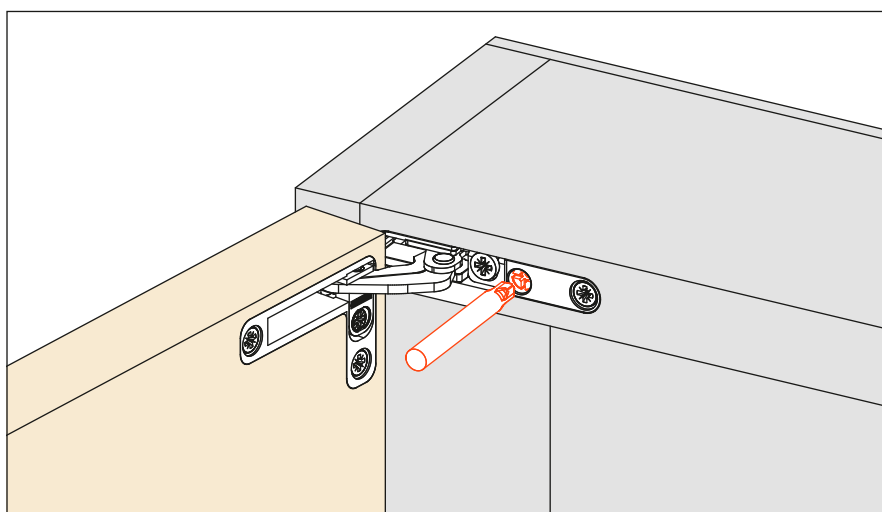
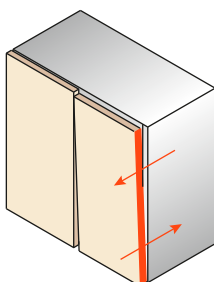
Part number	Packing
<b>SELX77X9</b>	Boxes of 36 bags • 1 bag contains: 2 holders 2 fixing screws for hinges
<b>SELX77X6</b>	Boxes of 36 bags • 1 bag contains: 2 holders 2 fixing screws for hinges

## Air - Adjustments

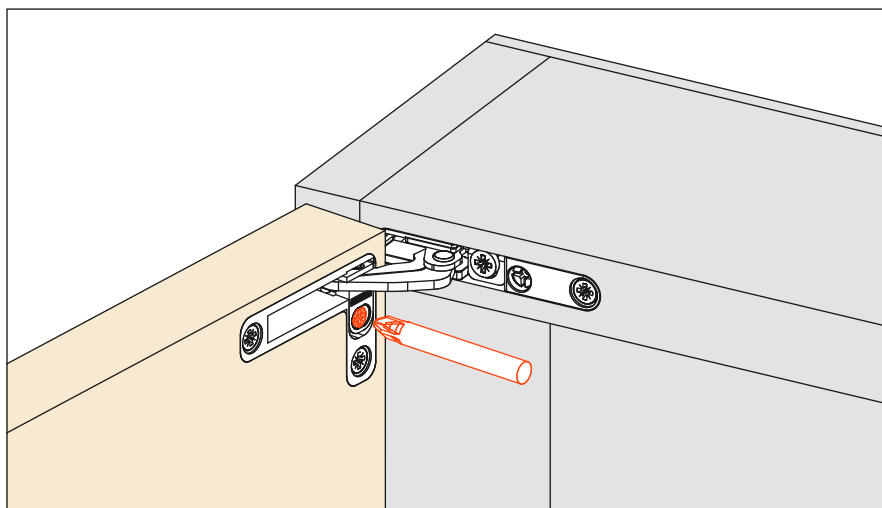
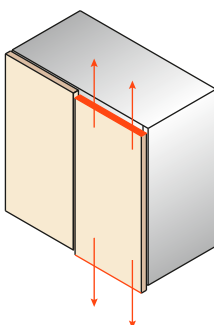
### Sideways adjustment from +2 to -2



### Depth adjustment from +2 to -0.5



### Height adjustment from +1.5 to -1.5





## **Magnetic Push**



## Magnetic Push - Recessed magnetic release device and retaining catches

**DPMSNB** - beige



**DPMSNG** - grey



Release device.  
ø 10 mm, 40 mm length.

**Packing**

Boxes 250 pcs.  
Cartons 1.500 pcs.

**DPASNB** - beige



**DPASNG** - grey

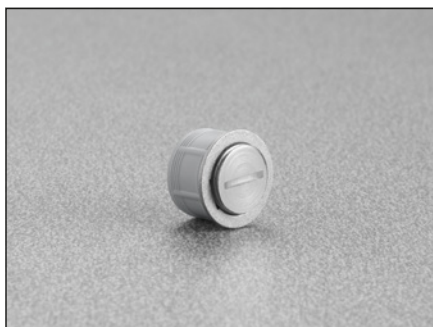


Optional supplementary release device to increase the magnetic holding strength. It must always be used together with the DPM. The suggested position of the DPM is the point of pressure on the door. The DPA can be positioned at any point along the opening edge of the door.  
ø 10 mm, 40 mm length.

**Packing**

Boxes 250 pcs.  
Cartons 1.500 pcs.

**DP39XXG**



Adjustable magnetic retaining catch.  
ø16.6 mm

**Packing**

Boxes 250 pcs.

**DP28SN9**



Retaining catch to be inserted.  
ø 11.5 mm.

**Packing**

Boxes 250 pcs.

**DP38XX91**



Retaining catch with adhesive.  
20x14 mm.

**Packing**

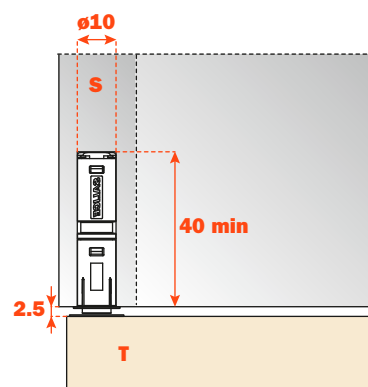
Boxes 250 pcs.

## Release device application

### Application of the release device to be recessed

Drill a hole  $\varnothing$  10 mm and min. 40 mm depth in the top, the side or the base panel of the cabinet.

Insert the release device into the hole.

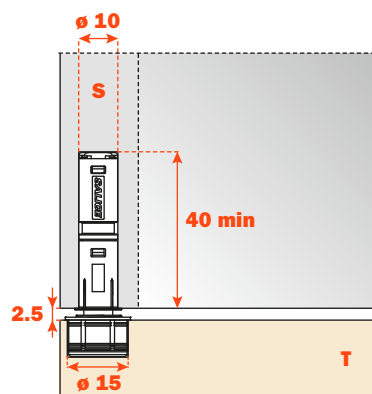


### Inserted adjustable retaining catch.

The retaining catch DP39 is itself magnetic and together with the magnetism of the release device DPM considerably increase (30%) the holding strength of the door against the cabinet side, thus avoiding accidental openings.

For the installation it is necessary to drill a hole  $\varnothing$ 15 mm and 11 mm depth in the door.

Depth adjustment from -0.5 mm to +2.5 mm.



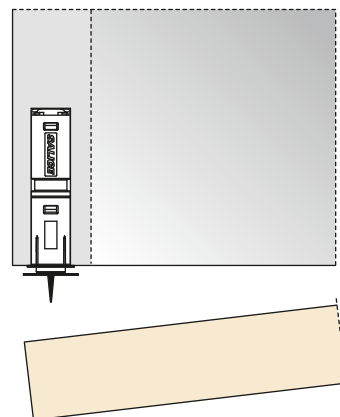
### Pin- fix retaining catch

Apply the retaining catch to the magnetic release device.

Close the door.

The point of the retaining catch will show where to insert it.

Reopen the door and drive in the pin to fix in position.



### Retaining catch with adhesive strip

Apply the retaining catch to the magnetic release device. Remove the protective strip from the adhesive. Close the door. In this way the retaining catch is positioned on the door. Reopen the door and apply a firm pressure to the retaining catch to ensure a correct installation.

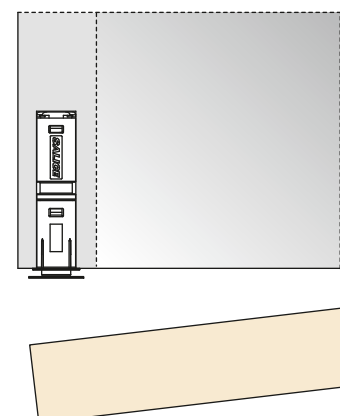
#### ATTENTION:

For a correct application and to ensure optimal endurance, we suggest these guidelines are followed:

- 1 - clean and degrease the door surface where the retaining catch is to be installed;
- 2 - remove the protective strip from the adhesive;
- 3 - place the retaining catch in position, in a place that is at room temperature  $\geq 10^\circ$  and apply a firm pressure for 10-15 seconds.

After few seconds from the installation the retaining catch is suitable for the use.

After 24h the max. hold is attained.



## Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## Notes

This image shows a full page of blank, lined paper. It features approximately 28 horizontal blue or grey lines spaced evenly apart, typical of notebook paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings on the page.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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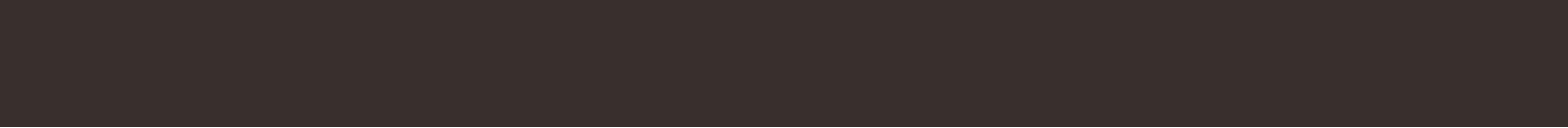
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OPP. WAGLE PRABHAG SAMITI OFFICE,  
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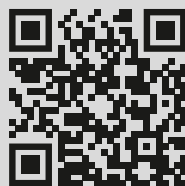


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