SALICE

Air Hinge

Concealed Hinge

epfo luos

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.

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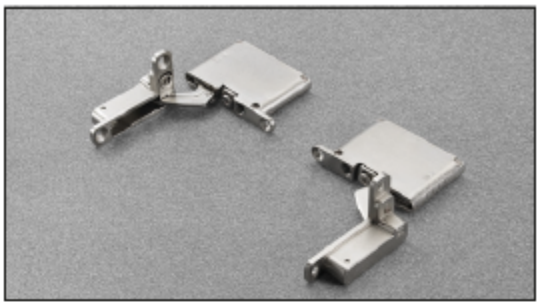
- Technical

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.

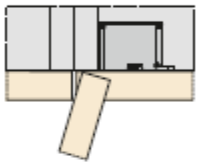
For min. 18 mm thick wooden doors and for aluminium-framed doors.
Max. door weight 25 Kg.
Max. dimensions of the door : height 2700 mm, width 600 mm.
16.5 mm deep metal cup.
L = 2.5 mm
105° opening.
Possible drilling distance on the door (K): from 4 to 6 mm for wooden doors.
Fixed K = 4 mm for aluminium-framed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

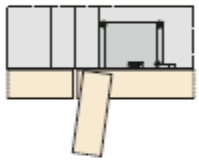
	T=	18	20	22	24	26	28	30	32
K=4	A=	0	0.2	0.4	0.8	1.3	3.9	6.5	9.0
K=5	A=	0	0.2	0.4	0.8	1.3	2.9	5.5	8.0
K=6	A=	0	0.2	0.4	0.8	1.2	1.9	4.5	7.0

105° door opening



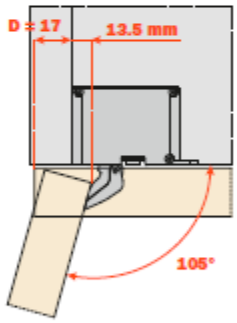
	T=	28	30	32
K=4	A=	1.8	3.2	4.8
K=5	A=	1.7	2.8	4.3
K=6	A=	1.6	2.8	4.0

Door opening with stop device at 92°

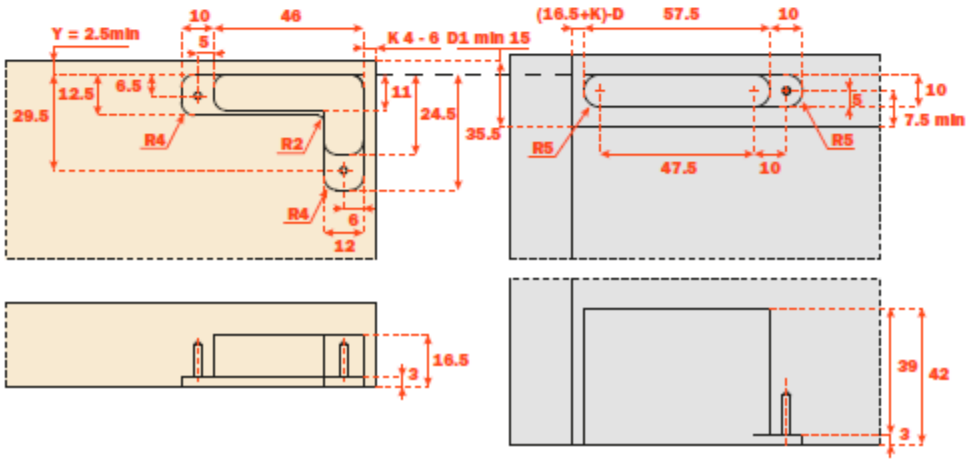


Projection of the door

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



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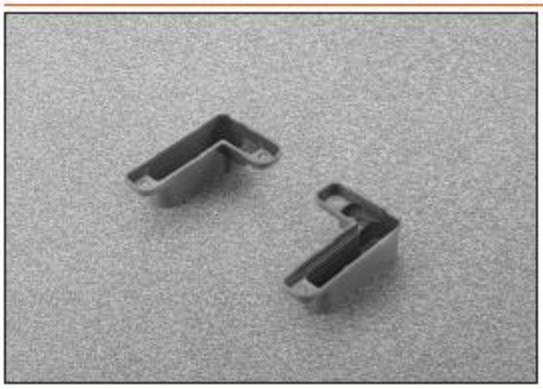
Workings on the wooden door for holders

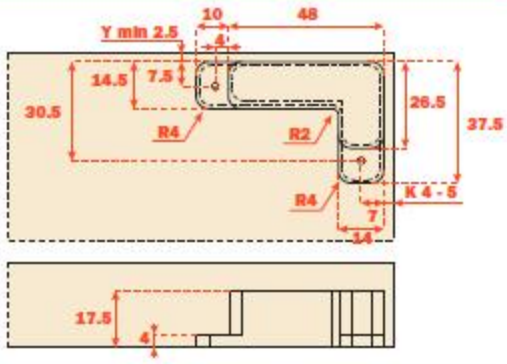
Air can be equipped with holders for the hinge cup and arm. The holders are inserted respectively into the door and the cabinet and make the insertion of the hinge easier as well as hiding any surface imperfections caused by the machining of the cabinet.

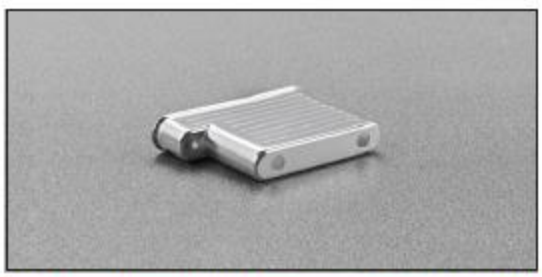
The holder for the arm, which is inserted into the panel, provides additional support for Air when it is used in thinner materials.
We recommend the use of a low-expansion, single-component polyurethane adhesive, suitable for bonding wood to metal.

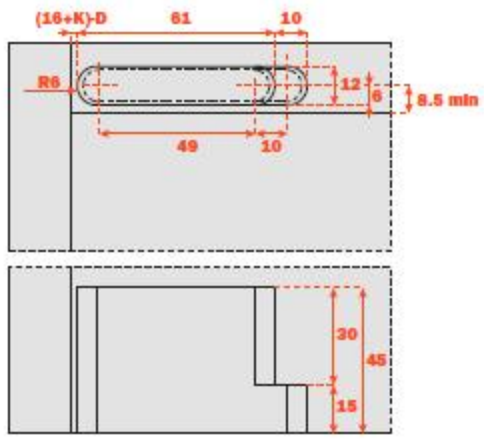
Moreover, to supplement the adhesive bond, it is possible to insert two 3.5x20 screws (not supplied) through the bottom of the holder.

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



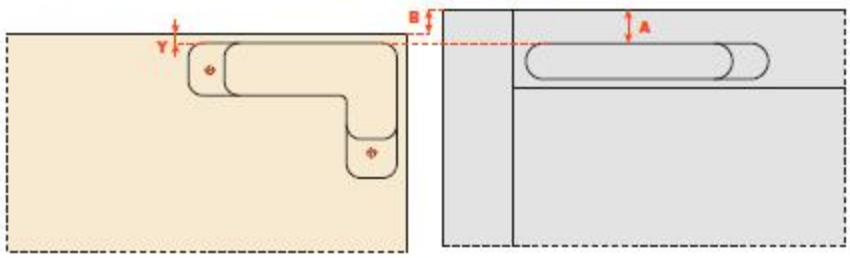






Formulas to determine the distance for the insertion of the holders for arm.

A = B + Y
B = A - Y
Y = A - B



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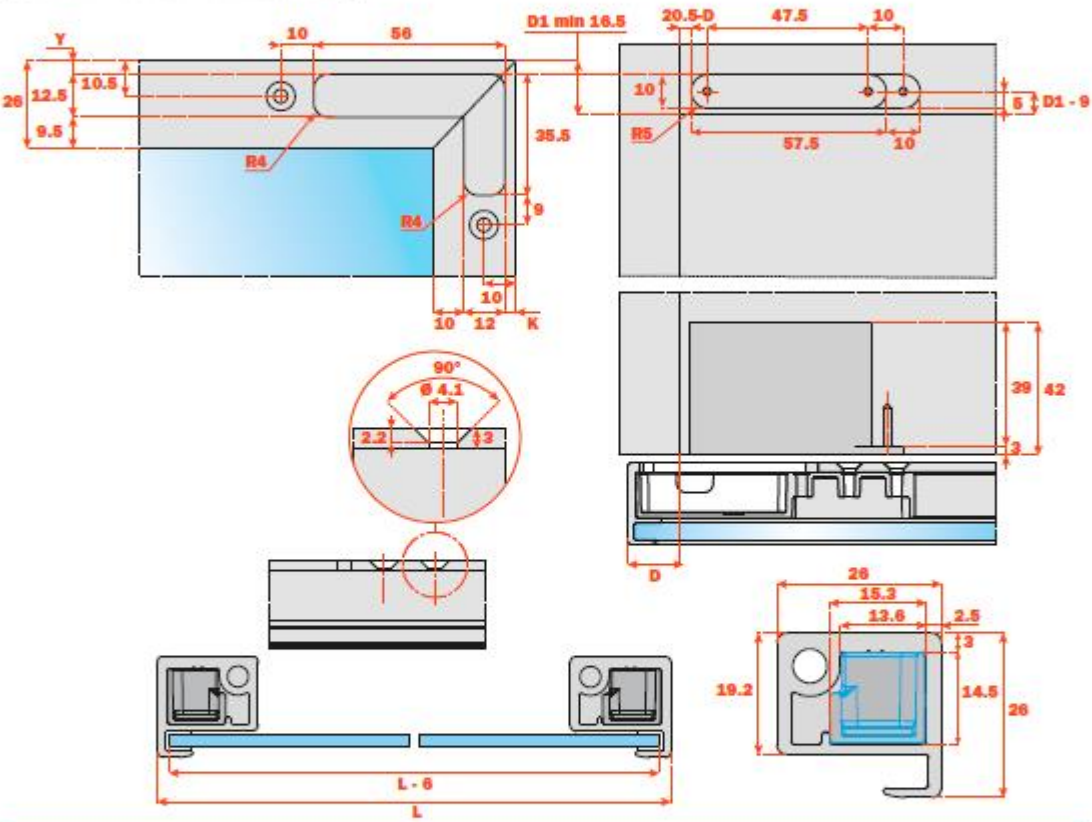
Air - Workings on the aluminium-framed doors for holders

Suitable for the aluminium frame **DEL6LP300_** with corner connector **DEL6B5FV02.**

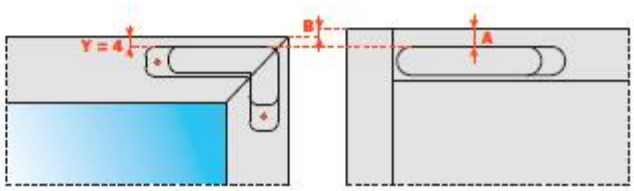
For use with doors that have a minimum overlay on the top **16.5 mm.**

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

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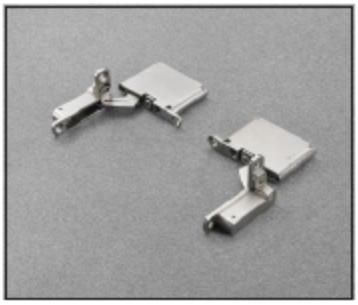
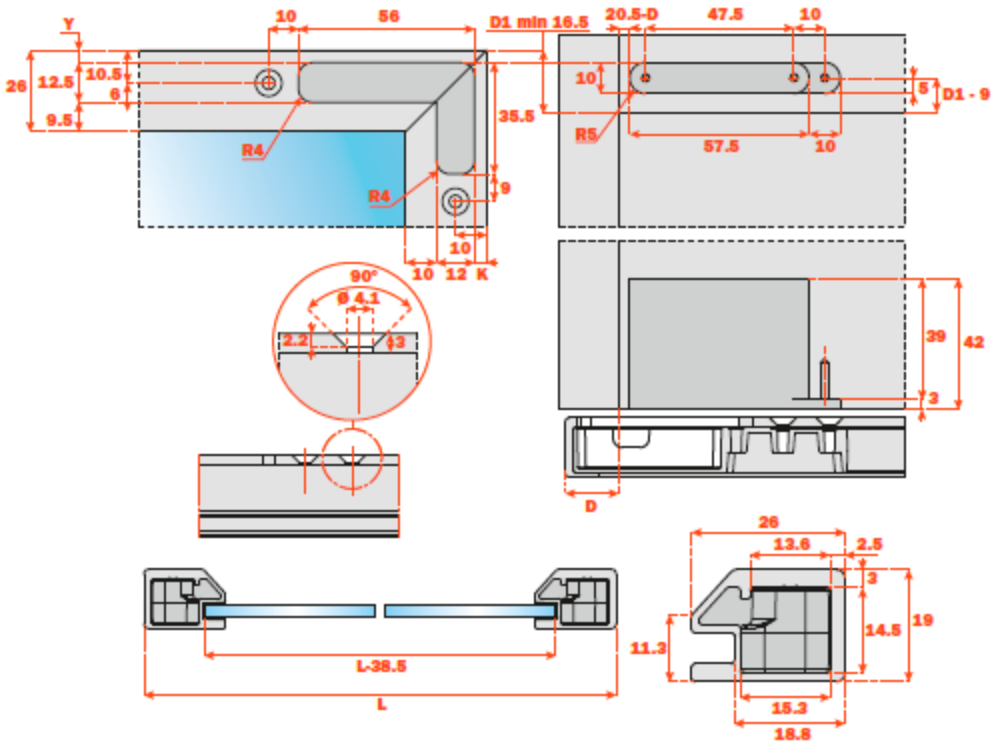


Suitable for the aluminium frame **DEL9LP300_** with corner connector **DEL6B5FV02.**

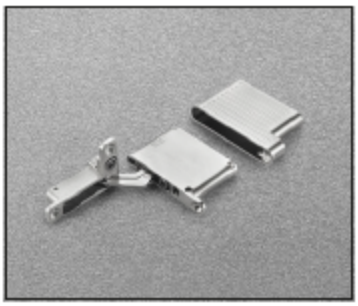
For use with doors that have a minimum overlay on the top **16.5 mm.**

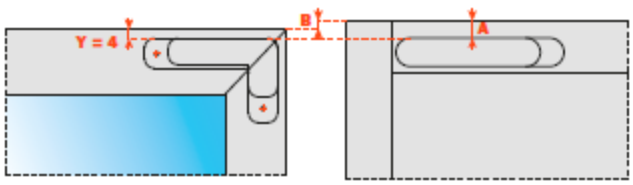
Dimensions of the frame **26x19 mm.**

Y = 4
K = 4



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





A = B + 4
B = A - 4

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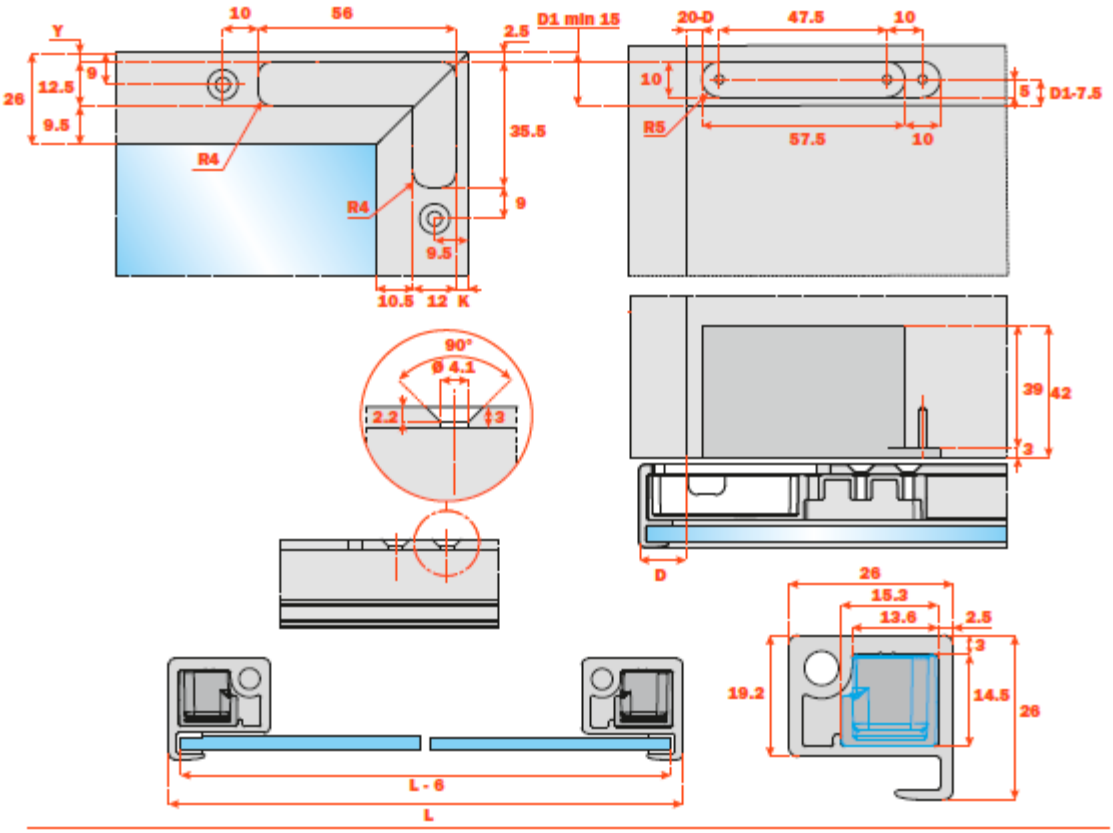
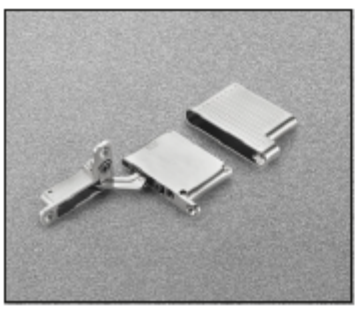
Suitable for the aluminium frame **DEL6LP300_** with corner connector **DEL5B5FV02.**

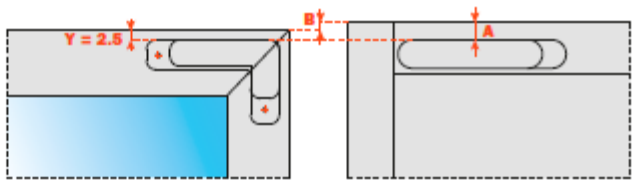
For use with doors that have a minimum overlay on the top of **15 mm.**

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

Y = 2.5
K = 3.5







A = B + 2.5
B = A - 2.5

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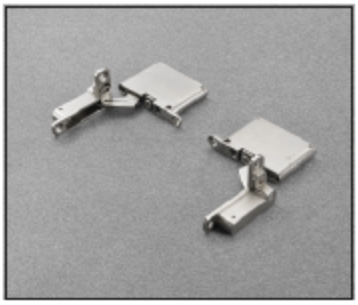
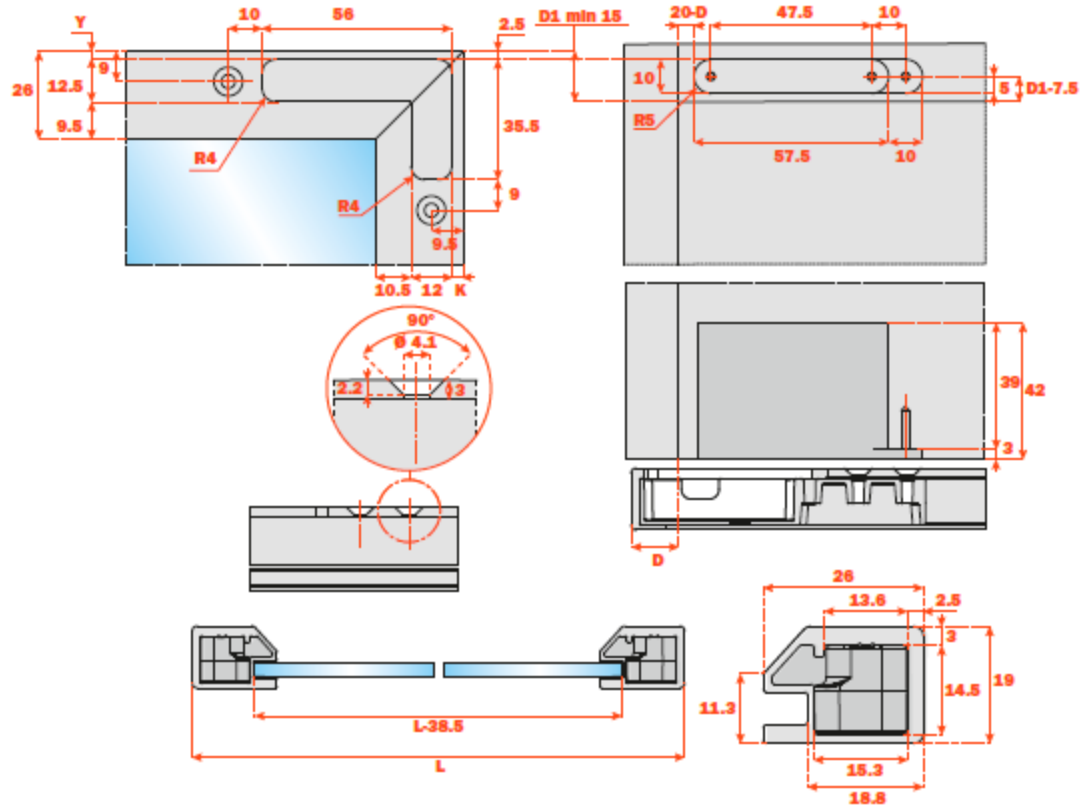


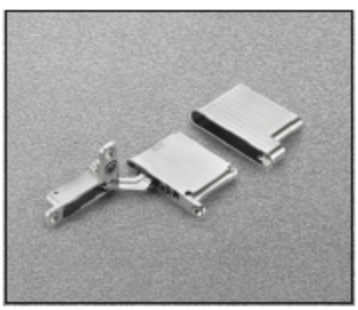
Workings on the aluminium frame **DEL9LP300_** with corner connector **DEL5B5FV02.**

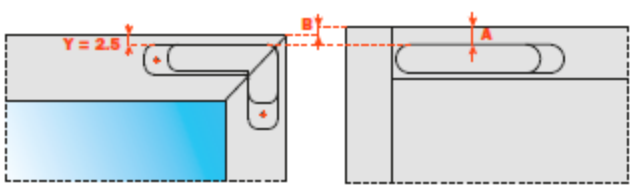
For doors with min. top overlay of **15 mm.**

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

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