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

	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

105° door opening
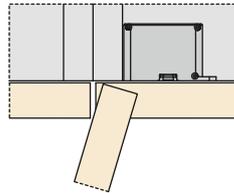
Door opening with stop device at 92°
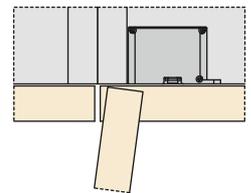
Projection of the door

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.

D = 17   13.5 mm

105°
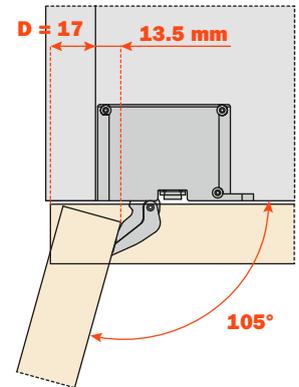
Drilling scheme for the hinge