# PIVOT-PRO

## C80 Series 110° Snap-on Cam-adjustable Soft-close Hinges


DTC
Global Quality Benchmark

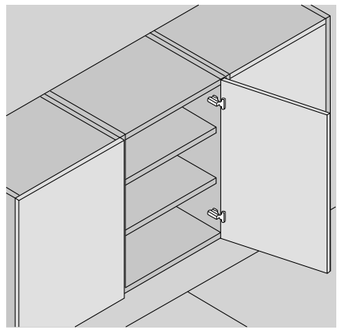


### PRODUCT

### DESCRIPTION

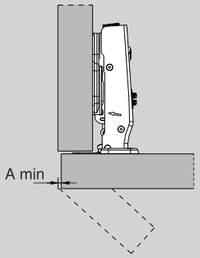
- Opening angle:110°
- Depth of hinge cup: 11.5mm
- Diameter of hinge cup: 35mm
- Range of door thickness: 16-26mm
- Possible drilling distances on the door(K): 3-6 mm

### APPLICATION



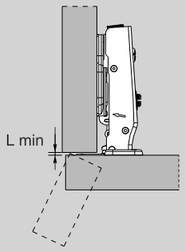
### PLANNING

#### Space needed to open the door




| | T= | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K=3 | A= | 0.7 | 0.9 | 1.2 | 1.5 | 1.8 | 2.2 | 2.6 | 3.2 | 3.8 | 4.5 | 5.3 |
| K=4 | A= | 0.7 | 0.9 | 1.1 | 1.4 | 1.8 | 2.1 | 2.5 | 3.0 | 3.5 | 4.4 | 4.9 |
| K=5 | A= | 0.6 | 0.9 | 1.1 | 1.4 | 1.7 | 2.0 | 2.4 | 2.9 | 3.4 | 3.9 | 4.6 |
| K=6 | A= | 0.6 | 0.8 | 1.1 | 1.3 | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 | 3.8 | 4.4 |

#### Space needed to open the door

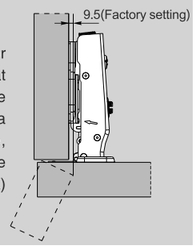



| | T= | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K=3 | L= | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| K=4 | L= | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 | 0.7 | 0.9 | 1.1 |
| K=5 | L= | 0.0 | 0.2 | 0.4 | 0.6 | 0.8 | 1.0 | 1.2 | 1.4 | 1.6 | 1.8 | 2.0 |
| K=6 | L= | 0.9 | 1.2 | 1.4 | 1.6 | 1.8 | 2.0 | 2.2 | 2.4 | 2.6 | 2.8 | 3.0 |

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

#### Projection of the door

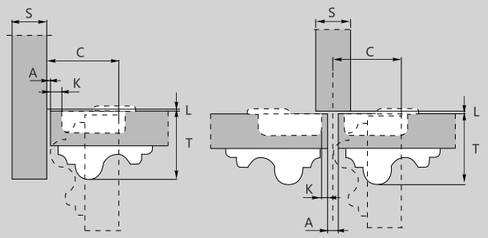
Projection of the door from the cabinet side at the max opening.The figures are based on a straight arm hinge, H=0mm mounting plate and drilling distance (K) =3mm.




#### "C" value

C=20+K+ **A**

With this formula you can obtain the max thickness of the moulded door that can be opened without touching adjacent carcase sides, doors or walls, whilst bearing in mind the above L-K-T values.

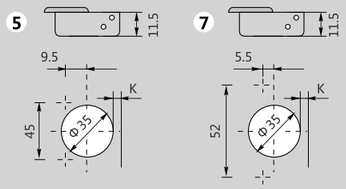



### ORDER INFORMATION

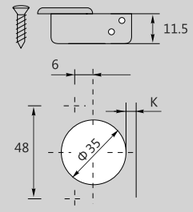
#### Φ 35mm Options of screws and dowels:

| | | |
|---|---|---|
| M10 dowel, Dowel No: **M** | Expandable dowel, Dowel No: **K** |
| M8 dowel, Dowel No: **N** | Expandable dowel, Dowel No: **K0** |
| Euro screw, Dowel No: **B** | Quick dowel, Dowel No: **T0** |

#### Φ 35mm Hinge cup types




Use these formulas to determine the type of hinge arm, the drilling distance "K" and the height of the mounting plate "H" for each door application.

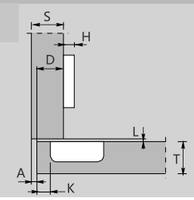



Nickel plated(A01) | Specially treated(A11)

#### C80 Series 110° snap-on cam-adjustable soft-close hinges

**Full overlay C=0**

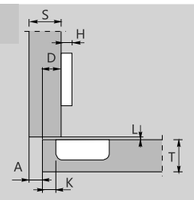
H=12+K-(D) (Factory setting)




| | Item No. | Pcs/ctn |
|---|---|---|
| Soft-close | **C80A676F** | 200 |
| Sprung | **C80A676** | 200 |

**Half overlay C=9**

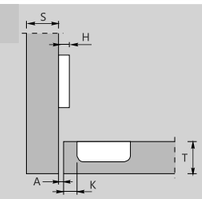
H=3+K-(D) (Factory setting)




| | Item No. | Pcs/ctn |
|---|---|---|
| Soft-close | **C80B676F** | 200 |
| Sprung | **C80B676** | 200 |

**Inset C=18**

H=-6+K+(A) (Factory setting)




| | Item No. | Pcs/ctn |
|---|---|---|
| Soft-close | **C80C676F** | 200 |
| Sprung | **C80C676** | 200 |

# ASSEMBLY AND ADJUSTMENT

## PIVOT-PRO Hinges Installation and Parameters

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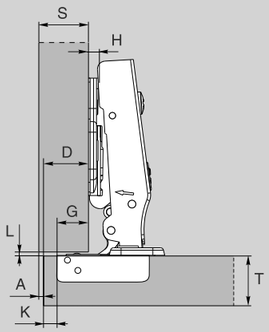
PLANNING

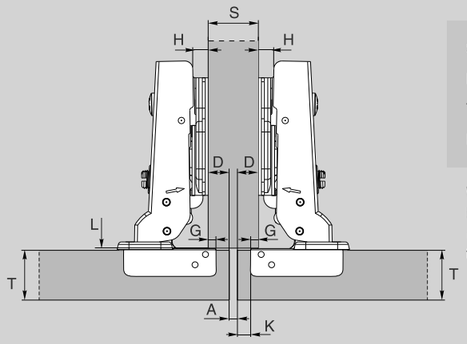
### Application with full overlay door




S = Thickness of the cabinet side
D = Required door overlay
T = Door thickness
K = Drilling distance
A = Reveal
L = Gap between door and carcase
H = Height of the mounting plate
G = Hinge constant

Whatever door overlay is required, you can select from our range the combination of both the type of hinge arm and the thickness of mounting plate necessary to solve your construction problem and avoid the need to stock too many different components.

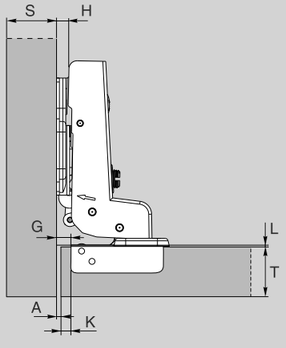
### Application with half overlay door




S = Thickness of the cabinet side
D = Required door overlay
T = Door thickness
K = Drilling distance
A = Reveal
L = Gap between door and carcase
H = Height of the mounting plate
G = Hinge constant

Whatever door overlay is required, you can select from our range the combination of both the type of hinge arm and the thickness of mounting plate necessary to solve your construction problem and avoid the need to stock too many different components.

### Application with inset door

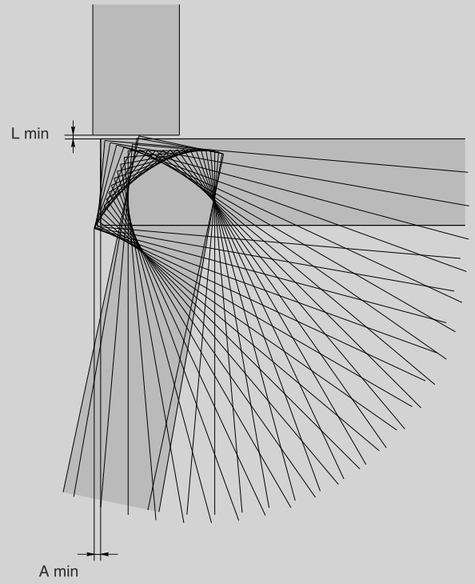



S = Thickness of the cabinet side
T = Door thickness
K = Drilling distance
A = Reveal
L = Gap between internal face of door and internal cabinet elements(e.g.shelves, drawers,etc.)
H = Height of the mounting plate
G = Hinge constant

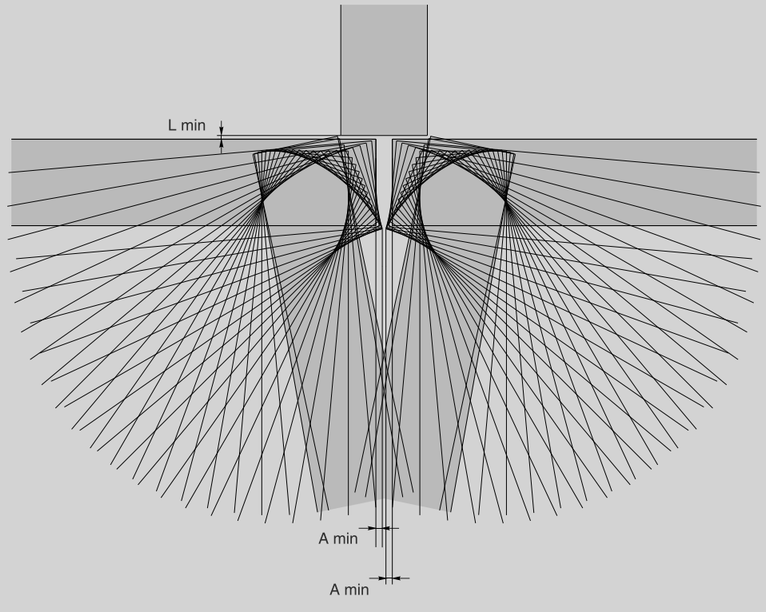
Whatever door overlay is required, you can select from our range the combination of both the type of hinge arm and the thickness of mounting plate necessary to solve your construction problem and avoid the need to stock too many different components.

PLANNING

### Simulation of the opening movement of a 110° hinge with full overlay door



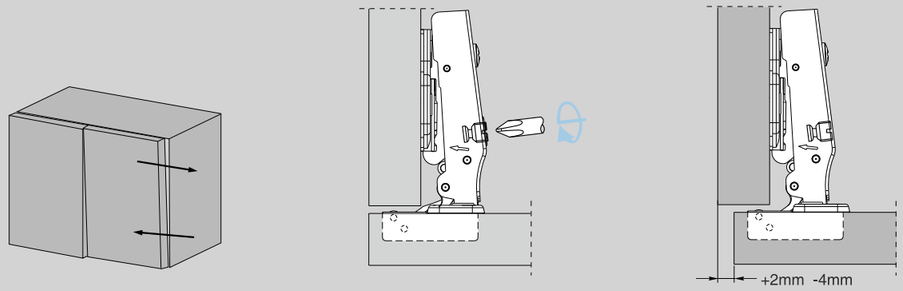

### Simulation of the opening movement of a 110° hinge with half overlay door



## PLANNING

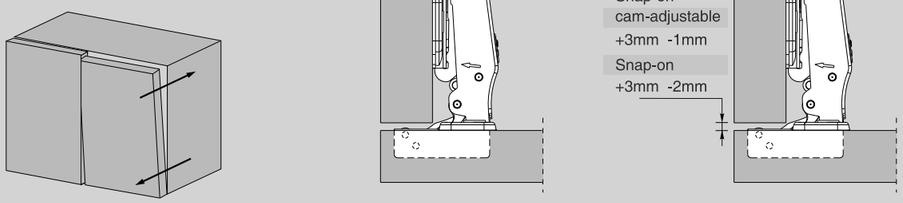
### PIVOT-PRO side adjustment

Side adjustment of the door is made by using the indicated screw.



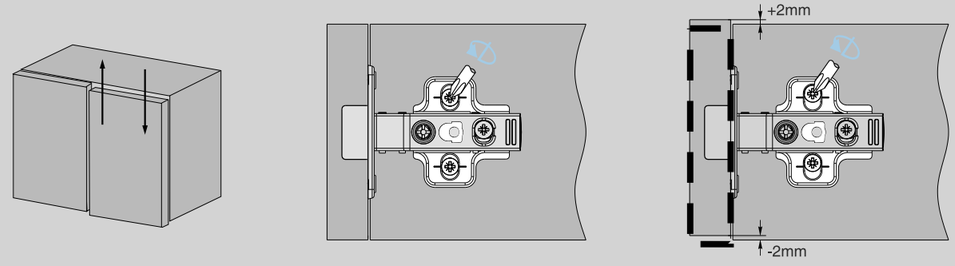

### PIVOT-PRO depth adjustment

Depth adjustment is made without loosening any screw. The door can be moved in or out by rotating the cam adjuster on the hinge arm.



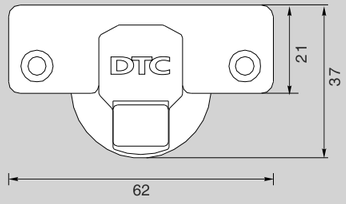

### PIVOT-PRO height adjustment

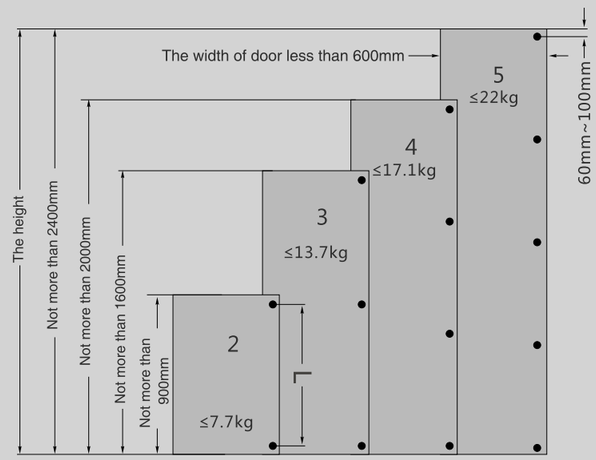
By loosening the two fixing screws to allow the mounting plate to slide up or down, the door can be adjusted vertically by ±2mm. After retightening the screws, the depth adjustment is done.






## PLANNING


L=distance between hinges, performance is best when L is as far apart as possible

**Hinges needed per door**

The number of hinges needed depends on three factors: Height, Width and Weight of the door. This illustration can be used as a general guide, however a trial is suggested for doors made of heavier materials. Performance is best when distance (L) is as far apart as possible on doors with two hinges. This is especially important for doors that are wider than they are tall to prevent door sag.

### Adjustment

Side adjustment:4mm~+2mm
Height adjustment: ±2mm
Depth adjustment:Snap-on -2mm~+3mm,Snap-on(Cam adjustable) -1mm~+3mm

### Mounting plates

Two-hole and four-hole mounting plates
Up&down cam adjustable mounting plates