

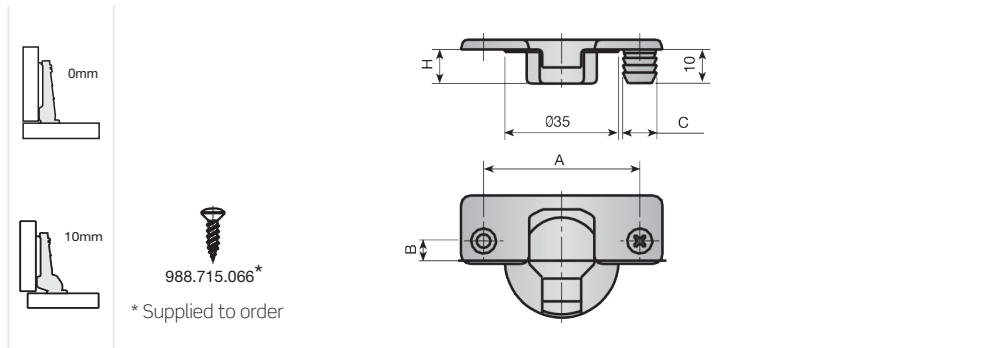
MESUCO 121

Ø35 cup hinge
“Slide on” assembly

Wide range of solutions.



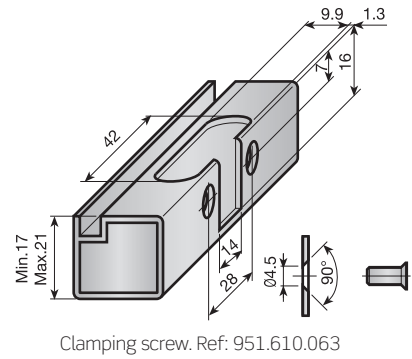
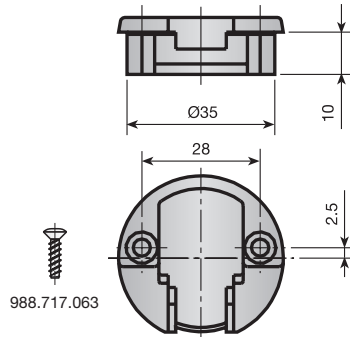
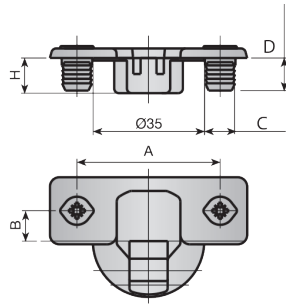
1 HINGE GROUP



α = OPENING ANGLE
H = CUP DEPTH (mm.)

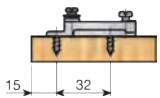
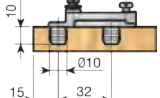

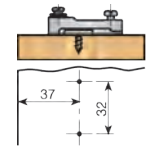


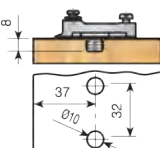


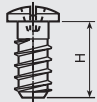
NICKEL					
A: 48, B: 6		A: 45, B: 9.5		A: 52, B: 5.5	
Screw-fixed	With dowels c:Ø10	Screw-fixed	With dowels c:Ø8	Screw-fixed	With dowels c:Ø10

<p>$\alpha = 0^\circ \div 100^\circ$ H = 10.5</p>	0mm.	020.020.173	020.021.175	020.060.176	020.069.173	020.070.175	020.071.170
	10mm.	021.020.171	021.021.173	021.060.174	021.069.171	021.070.173	021.071.175
	17mm.	022.020.176	022.021.171	022.060.172	022.069.176	022.070.171	022.071.173
<p>$\alpha = 0^\circ \div 172^\circ$ H = 10.5</p>	0mm.	020.020.044	020.021.046	020.060.040	020.069.044	020.070.046	020.071.041
	10mm.	021.020.042	021.021.044	021.060.045	021.069.042	021.070.044	021.071.046
<p>H = 12.5 $\alpha = 15^\circ \div 115^\circ$ $\alpha = 30^\circ \div 130^\circ$</p>	0mm.	028.120.116	028.121.111	028.160.112	028.169.116	028.170.111	028.171.113
	0mm.	029.120.114	029.121.116	029.160.110	029.169.114	029.170.116	029.171.111
	0mm.	024.120.176	024.121.171	024.160.172	024.169.176	024.170.171	024.171.173
<p>$\alpha = -45^\circ \div 55^\circ$ H = 10.5</p>	0mm.	025.120.174	025.121.176	025.160.170	025.169.174	025.170.176	025.171.171
	0mm.	023.120.171	023.121.173	023.160.174	023.169.171	023.170.173	023.171.175
<p>$\alpha = 90^\circ \div 190^\circ$ H = 10.5 H = 12.5</p>	10mm.	026.120.113	026.121.115	026.160.116	026.169.113	026.170.115	026.171.110
	0mm.	020.020.162	020.021.164	020.060.166	020.069.162	020.070.164	020.071.166
<p>Large displacement $\alpha = 0^\circ \div 95^\circ$ H = 10.5</p>	10mm.	021.020.160	021.021.162	021.060.163	021.069.160	021.070.162	021.071.164
	17mm.	022.020.165	022.021.160	022.060.161	022.069.165	022.070.160	022.071.162
	0mm.	028.120.061	028.121.063	028.160.064	028.169.061	028.170.063	028.171.065
<p>Large displacement H = 12.5 $\alpha = 15^\circ \div 110^\circ$ $\alpha = 30^\circ \div 125^\circ$</p>	0mm.	029.120.066	029.121.061	029.160.062	029.169.066	029.170.061	029.171.063
	0mm.	024.120.165	024.121.160	024.160.161	024.169.165	024.170.160	024.171.162
	0mm.	024.120.165	024.121.160	024.160.161	024.169.165	024.170.160	024.171.162
<p>Large displacement $\alpha = 90^\circ \div 185^\circ$ H = 10.5</p>	0mm.	023.120.160	023.121.162	023.160.163	023.169.160	023.170.162	023.171.164
	10mm.	026.120.065	026.121.060	026.160.061	026.169.065	026.170.060	026.171.062
<p>Large displacement $\alpha = -45^\circ \div 50^\circ$ H = 10.5</p>	0mm.	025.120.163	025.121.165	025.160.166	025.169.163	025.170.165	025.171.160



NICKEL			NICKEL	NICKEL
A: 48, B: 6	A: 45, B: 9.5	A: 52, B: 5.5	Glass door hinge Ø35	Hinge for aluminium frames
Expand	Expand	Expand		
020.023.172	020.063.175	020.073.174	020.030.010	390.852.232
021.023.170	021.063.173	021.073.172	021.030.015	390.855.345
022.023.175	022.063.171	022.073.170	022.030.013	390.852.346
020.023.043	020.063.046	020.073.045		
021.023.041	021.063.044	021.073.043		
028.123.115	028.163.111	028.173.110		
029.123.113	029.163.116	029.173.115		
024.123.175	024.163.171	024.173.170		
025.123.173	025.163.176	025.173.175		
023.123.170	023.163.173	023.173.172		
026.123.112	026.163.115	026.173.114		
020.023.161	020.063.164	020.073.163		
021.023.166	021.063.162	021.073.161		
022.023.164	022.063.160	022.073.166		
024.123.164	024.163.160	024.173.166		
023.123.166	023.163.162	023.173.161		
025.123.162	025.163.165	025.173.164		

2 MOUNTING PLATES

HEIGHT mm.			0	2	4	7	10
		Screw-fixed Without vertical adjustment	Nickel-plated Zamak	081.000.006	081.000.102		
		Knock-in Without vertical adjustment	Nickel-plated Zamak	081.100.003	081.100.106		
		Knock-in Without vertical adjustment	PA White Brown Black	081.800.036 081.800.040 081.800.051	081.800.132 081.800.143 081.800.154	081.800.235 081.800.246 081.800.250	081.800.331 081.800.342 081.800.353
		Screw-fixed ± 2 Vertical adjustment	Nickel-plated steel Nickel-plated Zamak	081.203.021	081.203.124	081.203.220	081.203.312
		Knock-in ± 2 Vertical adjustment	Nickel-plated steel Nickel-plated Zamak	081.303.025	081.303.121	081.303.224	081.303.316
		Screw-fixed (With centerer) ± 2 Vertical adjustment	Nickel-plated steel Nickel-plated Zamak	081.503.026	081.503.122	081.503.225	081.503.310
		Knock-in (With centerer) ± 2 Vertical adjustment	Nickel-plated steel Nickel-plated Zamak	081.803.024	081.803.120	081.803.223	081.803.315
		Pre-mounted euro screw ± 2,5 Vertical adjustment	Nickel-plated steel Nickel-plated Zamak	081.603.023	081.603.126	081.603.222	081.603.314
5° and 10° spacer wedge for wing plate				5°	10°		H=11
		white brown black	352.905.000 352.905.011 352.905.022	352.910.003 352.910.014 352.910.025		951.211.063	951.213.060 (Standard)

3 COVERS

■ Glass door covers

Cover

PA	Silver-polish	351.700.226
PA	Gold-polish	351.700.230
PA	Black	351.700.252



Adaptor

PA	351.710.004
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Cover

PA	Silver-polish	351.900.220
PA	Gold-polish	351.900.231
PA	Black	351.900.253



Adaptor

PA	351.910.005
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O-ring

PA	White	351.110.001
PA	Brown	351.111.003
PA	Black	351.112.005



■ Hinge arm cover

PA	White	302.020.003
PA	Brown	302.020.014
PA	Black	302.020.025



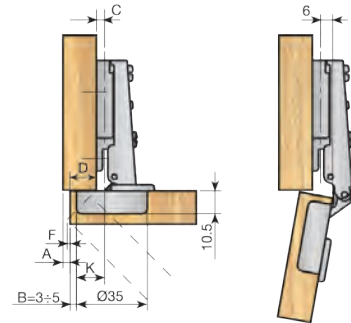
4 TECHNICAL DATA

MESUCO 121 Opening 100°

Full overlay



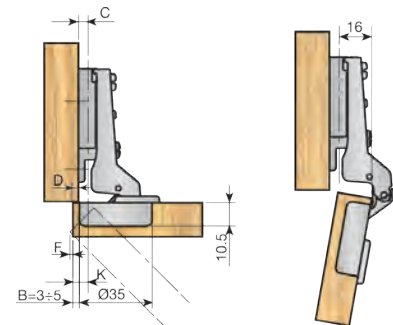
Calculation of the height of the plate
 $C = B + K - D$
 $K = \text{Constant} = 13\text{mm}$



Half overlay



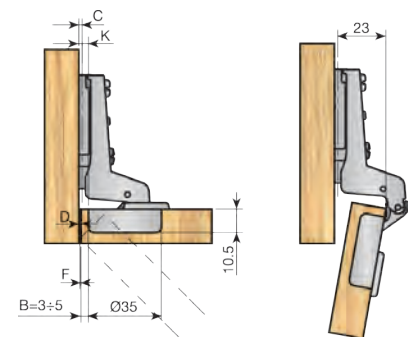
Calculation of the height of the plate
 $C = B + K - D$
 $K = \text{Constant} = 3\text{mm}$



Full inset*



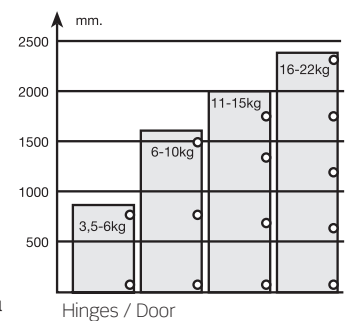
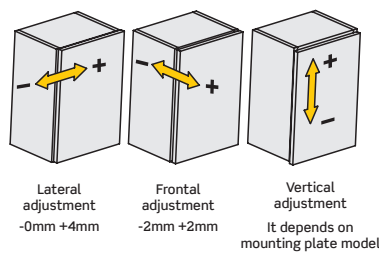
Calculation of the height of the plate
 $C = B + K + D$
 $K = \text{Constant} = -4\text{mm}$



* The position to fix the base has to be moved back a distance equal to the door thickness + 1mm

Lateral door displacement (F).

mm	Door thickness								
B	16	17	18	19	20	21	22	23	24
3	0.2	0.35	0.5	0.8	1.1	1.7	2.3	3	3.6
4	0.2	0.35	0.45	0.75	1	1.55	2.1	2.8	3.5
5	0.2	0.30	0.40	0.7	0.90	1.30	1.7	2.4	3.2

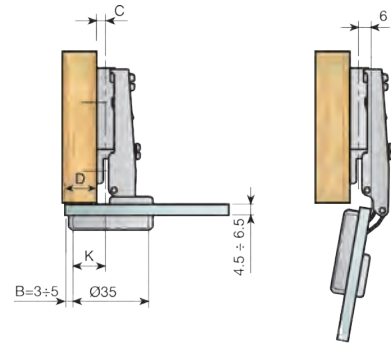


■ MESUCO 121 Opening 100° Glass door hinge

Full overlay



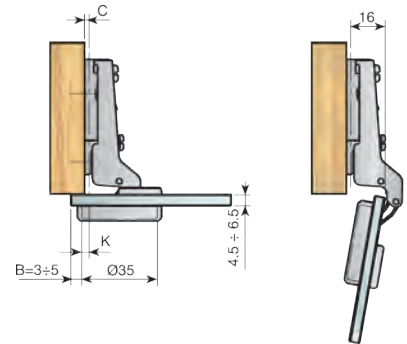
Calculation of the height of the plate
 $C = B + K - D$
 $K = \text{Constant} = 13\text{mm}$



Half overlay



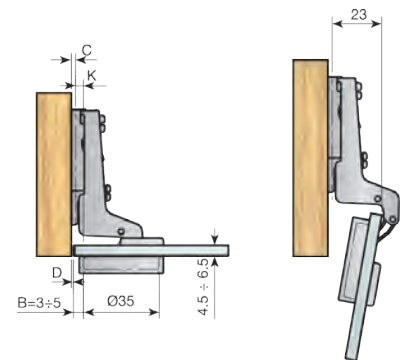
Calculation of the height of the plate
 $C = B + K - D$
 $K = \text{Constant} = 3\text{mm}$



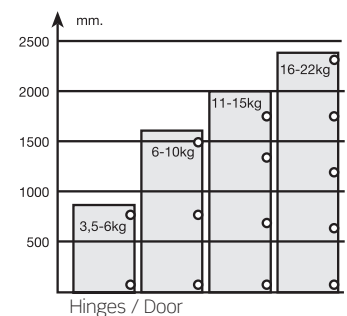
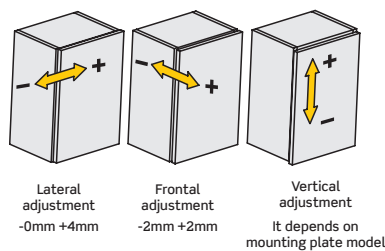
Full inset*



Calculation of the height of the plate
 $C = B + K + D$
 $K = \text{Constant} = -4\text{mm}$



* The position to fix the base has to be moved back a distance equal to the door thickness + 1mm

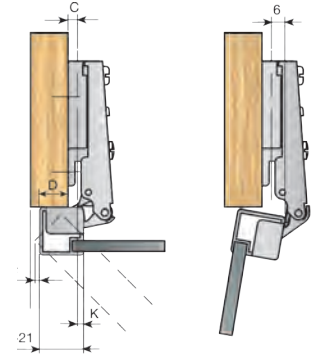


MESUCO 121 Opening 100° for aluminium frames

Full overlay



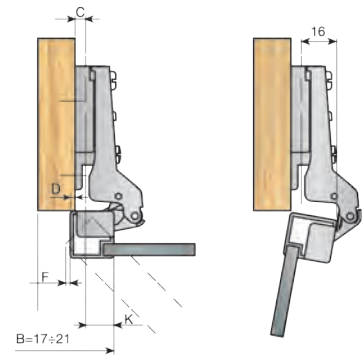
Calculation of the height of the plate
 $C = B - D - K$
 $K = \text{Constant} = 3\text{mm}$



Half overlay



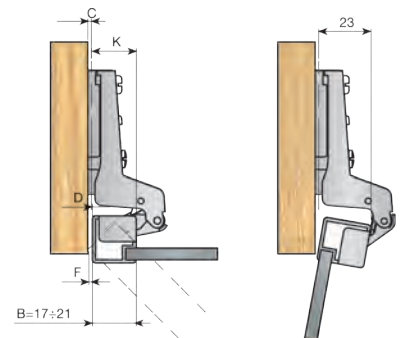
Calculation of the height of the plate
 $C = B - D - K$
 $K = \text{Constant} = 13\text{mm}$



Full inset*



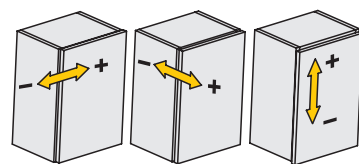
Calculation of the height of the plate
 $C = B + D - K$
 $K = \text{Constant} = 20\text{mm}$



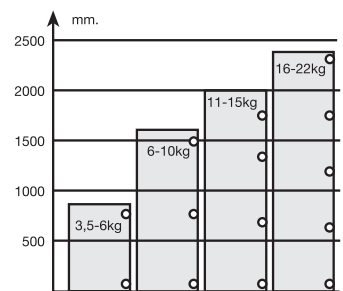
* The position to fix the base has to be moved back a distance equal to the door thickness + 1mm

Lateral door displacement.

mm	Door thickness									
B	16	17	18	19	20	21	22	23	24	
17	0.2	0.3	0.5	0.9	1.7	2.6	3.6	4.5	5.4	
18	0.2	0.3	0.5	0.8	1.3	2.1	3	3.9	4.8	
19	0.2	0.3	0.5	0.7	1	1.7	2.5	3.3	4.2	
20	0.2	0.3	0.5	0.7	1	1.4	2.1	2.9	3.7	
21	0.2	0.3	0.4	0.7	0.9	1.2	1.8	2.5	3.3	



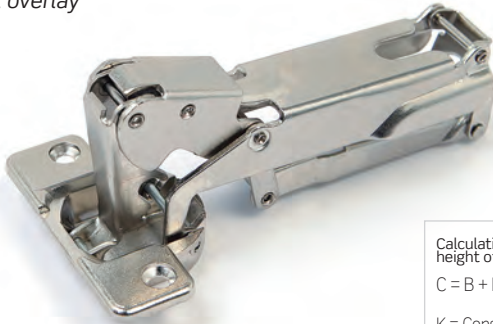
Lateral adjustment -0mm +4mm
 Frontal adjustment -2mm +2mm
 Vertical adjustment It depends on mounting plate model



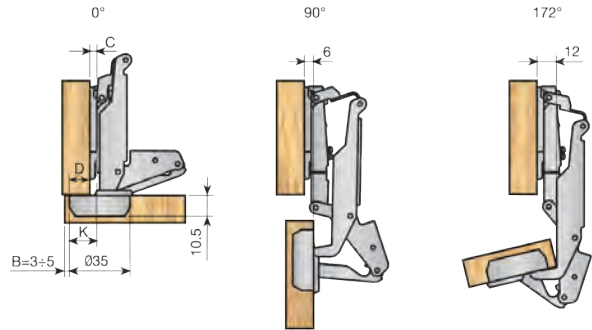
Hinges / Door

■ MESUCO 121 Opening 172°

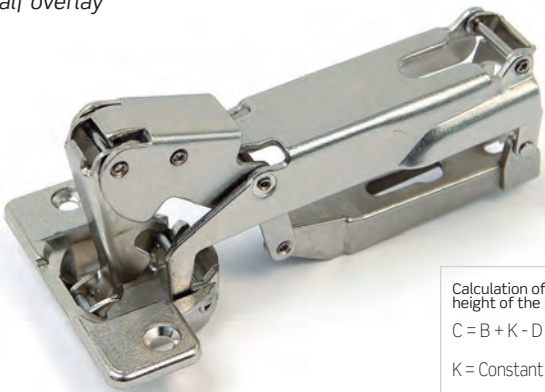
Full overlay



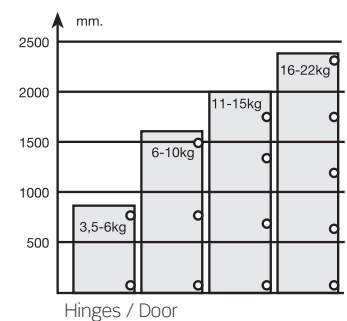
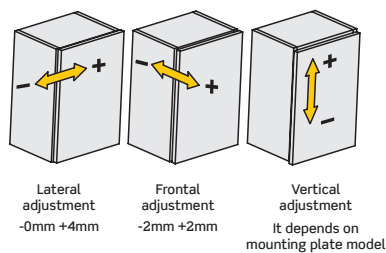
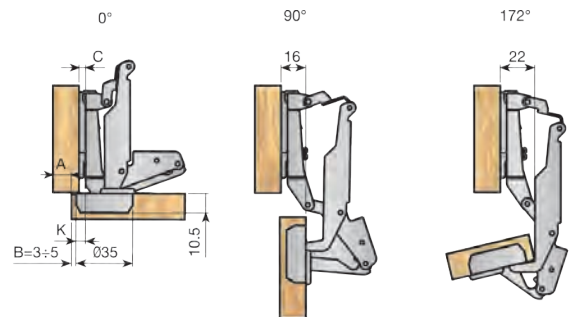
Calculation of the height of the plate
 $C = B + K - D$
 $K = \text{Constant} = 3\text{mm}$



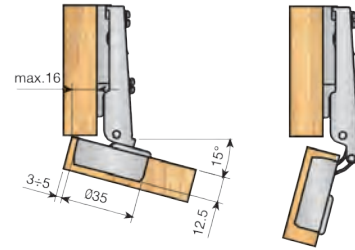
Half overlay



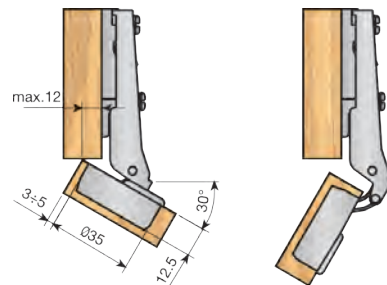
Calculation of the height of the plate
 $C = B + K - D$
 $K = \text{Constant} = 13\text{mm}$



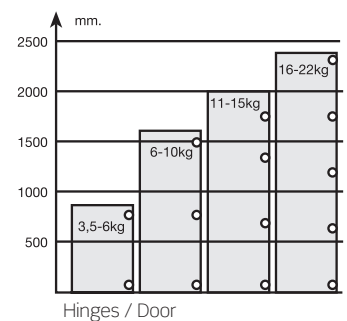
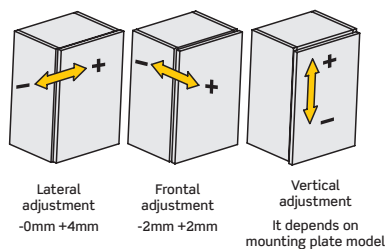
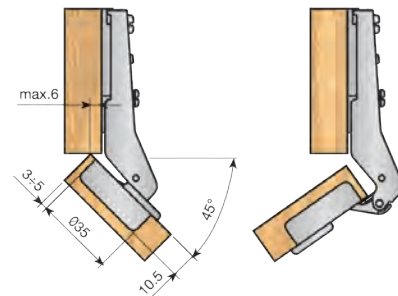
■ MESUCO 121 Opening 15° ÷ 115°



■ MESUCO 121 Opening 30° ÷ 130°

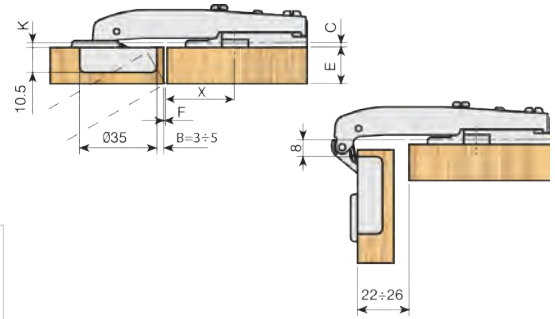


■ MESUCO 121 Opening 45° ÷ 145°



■ MESUCO 121 Opening 90° ÷ 190°

Full overlay

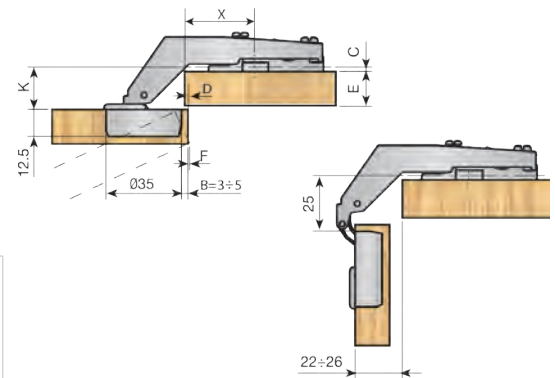


Mounting plate's drilling position calculation

$X = 42 - B - F$

$K = \text{Constant} = 2\text{mm}$

Full inset



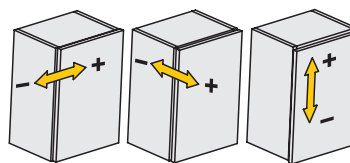
Mounting plate's drilling position calculation

$X = 42 - B + D$

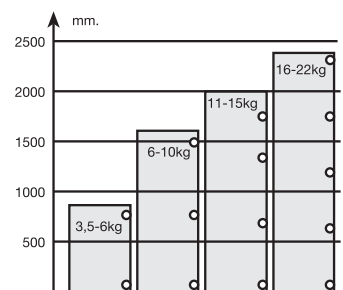
$K = \text{Constant} = 19,5\text{mm}$

Lateral door displacement (F).

mm	Door thickness									
B	16	17	18	19	20	21	22	23	24	
3	0.2	0.35	0.5	0.8	1.1	1.7	2.3	3	3.6	
4	0.2	0.35	0.45	0.75	1	1.55	2.1	2.8	3.5	
5	0.2	0.35	0.40	0.7	0.90	1.30	1.7	2.4	3.2	

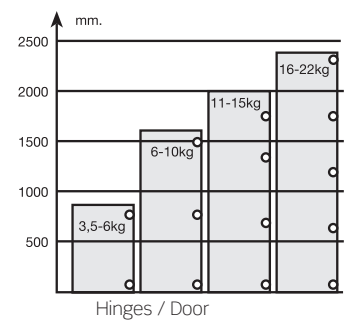
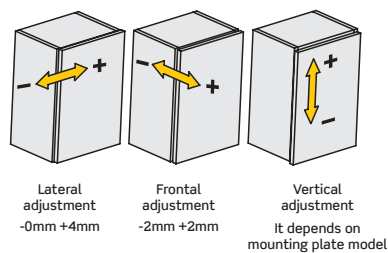
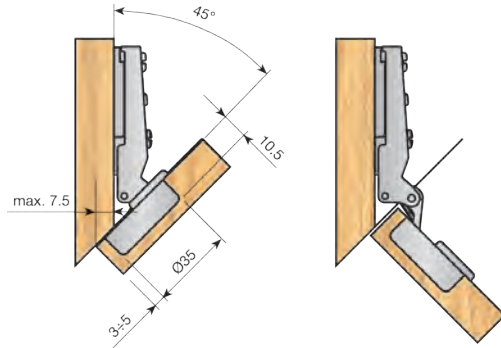


Lateral adjustment -0mm +4mm
 Frontal adjustment -2mm +2mm
 Vertical adjustment
 It depends on mounting plate model



Hinges / Door

■ MESUCO 121 Opening $-45^{\circ} \div 55^{\circ}$

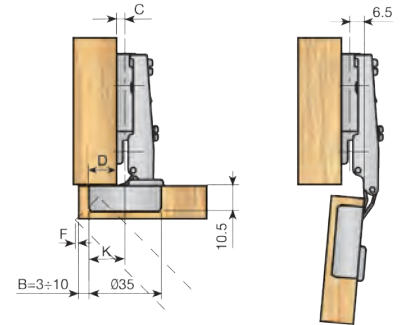


■ MESUCO 121 Opening 95° large displacement

Full overlay



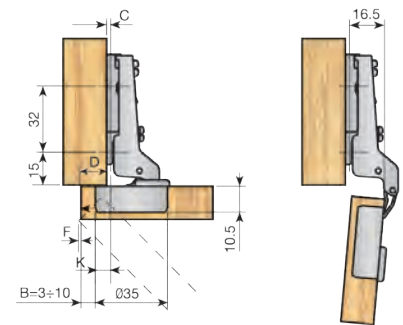
Calculation of the height of the plate
 $C = B + K - D$
 $K = \text{Constant} = 17\text{mm}$



Half overlay



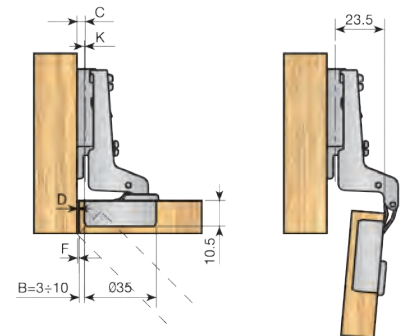
Calculation of the height of the plate
 $C = B + K - D$
 $K = \text{Constant} = 7\text{mm}$



Full inset



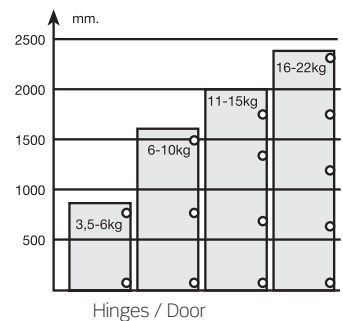
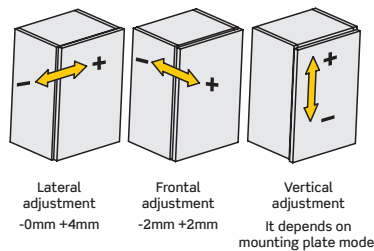
Calculation of the height of the plate
 $C = B + K + D$
 $K = \text{Constant} = 0\text{mm}$



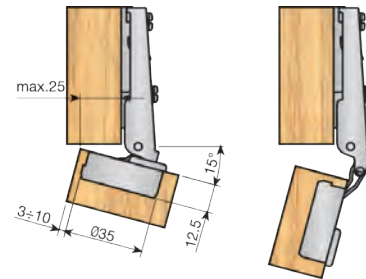
* The position to fix the base has to be moved back a distance equal to the door thickness + 1mm

Lateral door displacement (F).

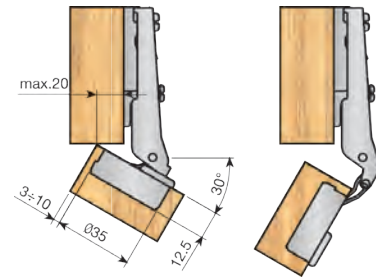
mm	Door thickness								
B	16	18	20	22	25	28	30	32	35
3	0,1	0,3	0,6	0,9	1,5	2,8	4,7	6,6	9,5
4	0,1	0,3	0,6	0,9	1,5	2,3	4	5,9	8,8
5	0,1	0,3	0,6	0,9	1,5	2,2	3,4	5,2	8
6	0,1	0,3	0,6	0,9	1,4	2,2	2,9	4,7	7,4
8	0,1	0,3	0,5	0,8	1,4	2,1	2,7	3,6	6,2
10	0,1	0,3	0,5	0,8	1,3	2	2,6	3,3	5,2



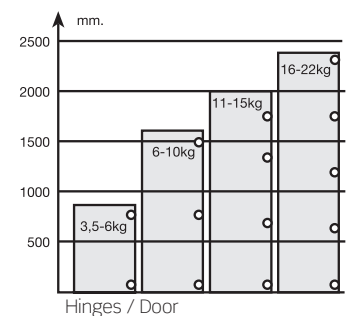
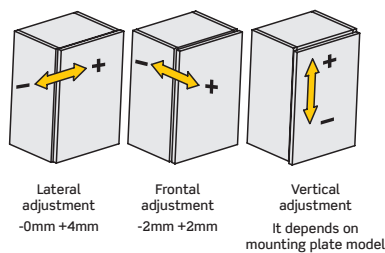
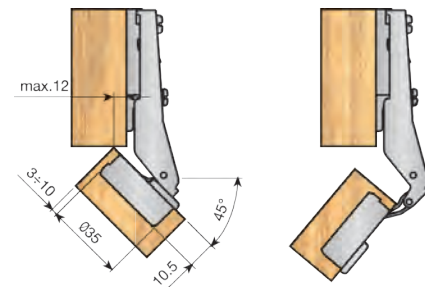
■ MESUCO 121 Opening 15° ÷ 110° large displacement



■ MESUCO 121 Opening 30° ÷ 125° large displacement



■ MESUCO 121 Opening 45° ÷ 140° large displacement

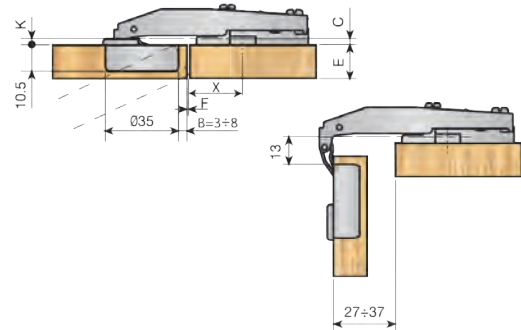


■ MESUCO 121 Opening 90° ÷ 185° large displacement

Full overlay



Mounting plate's drilling position calculation
 $X = 38,5 - B - F$
 K = Constant = 2mm



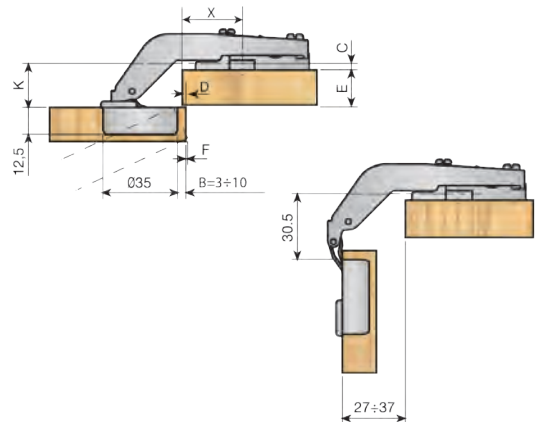
Lateral door displacement (F).

mm	Door thickness								
B	16	18	20	22	25	28	30	32	35
3	0,1	0,3	0,6	0,9	1,5	2,8	4,7	6,6	9,5
4	0,1	0,3	0,6	0,9	1,5	2,3	4	5,9	8,8
5	0,1	0,3	0,6	0,9	1,5	2,2	3,4	5,2	8
6	0,1	0,3	0,6	0,9	1,4	2,2	2,9	4,7	7,4
8	0,1	0,3	0,5	0,8	1,4	2,1	2,7	3,6	6,2
10	0,1	0,3	0,5	0,8	1,3	2	2,6	3,3	5,2

Half overlay

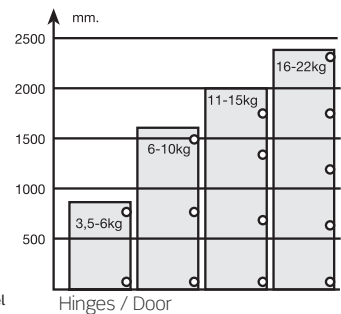
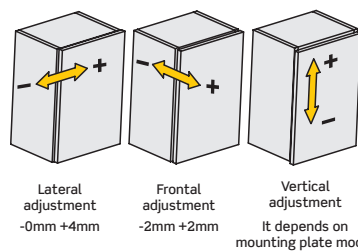


Mounting plate's drilling position calculation
 $X = 38 - B + D$
 K = Constant = 19,5mm



Lateral door displacement.

mm	Door thickness								
B	16	18	20	22	25	28	30	32	35
3	0	0	0,2	0,4	0,9	1,5	3	4,5	6,4
4	0	0	0,15	0,35	0,85	1,45	2,5	4,5	5,8
5	0	0	0,1	0,3	0,8	1,4	2	4,2	5,2
6	0	0	0,1	0,25	0,75	1,35	1,9	4	5,1
8	0	0	0	0,2	0,7	1,3	1,8	3,8	5
10	0	0	0	0,2	0,7	1,3	1,8	3,6	5



■ MESUCO 121 Opening -45° ÷ 50° large displacement

