

INDAmatic
gradual closing

HIGH-RANGE.

REDUCED DRILLING DEPTH: 10.5MM.

3 INDEPENDENT ADJUSTMENTS

-TRANSVERSE: RIGHT-HAND SCREWS

-VERTICAL: ECCENTRIC

-LONGITUDINAL: ECCENTRIC

“MESUCO 143” rapid

Ø35 CUP HINGE. QUICK ASSEMBLY.

ASSEMBLY WITH SIMPLE HIGH-END CLIP COMPLETE SERIES.

"MESUCO 143" rapid

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HIGH-RANGE REDUCED DRILLING DEPTH: 10.5 MM.

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-TRANSVERSE: RIGHT-HAND SCREWS

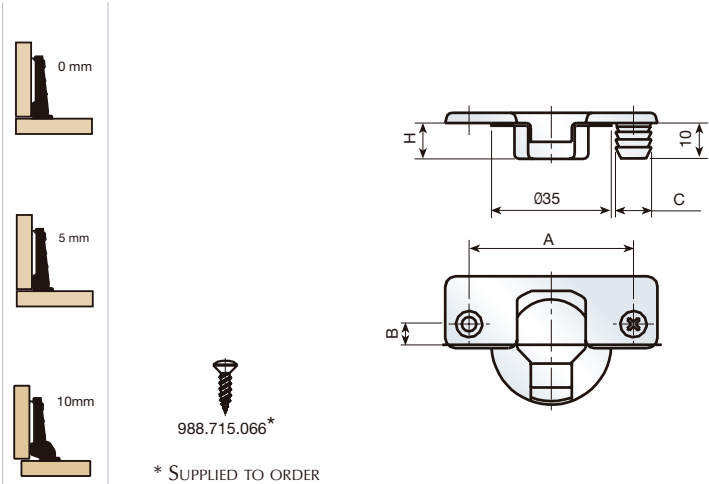
-VERTICAL: ECCENTRIC

-LONGITUDINAL: ECCENTRIC

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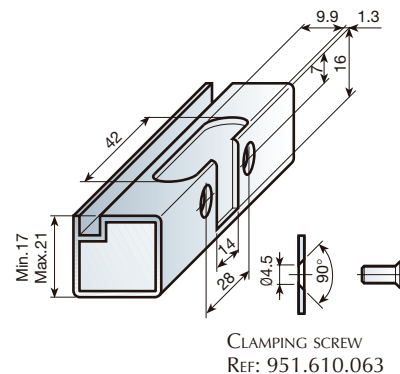
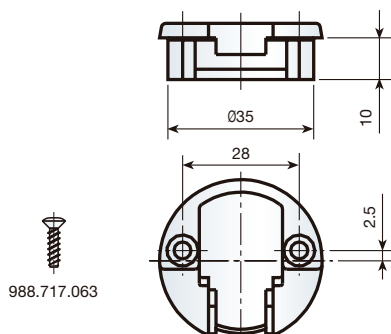
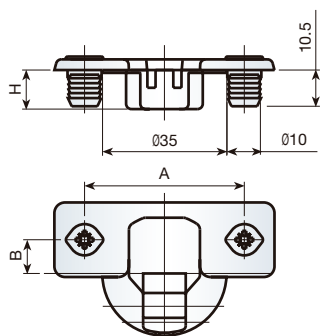


1 HINGE GROUP



α = OPENING ANGLE
H = CUP DEPTH (MM.)


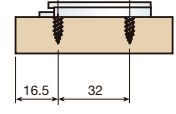

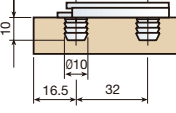

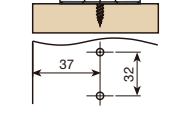

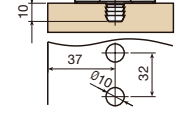

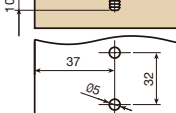

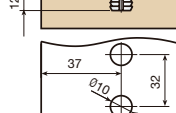

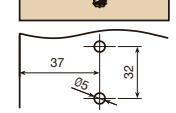

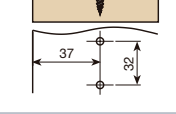

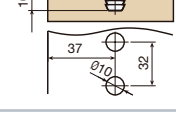

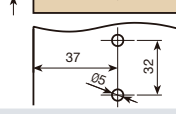




		NICKEL						
		A: 48 , B: 6		A: 45 , B: 9.5		A: 52 , B: 5.5		
		SCREW-FIXED	WITH DOWELS c:Ø10	SCREW-FIXED	WITH DOWELS c:Ø8	SCREW-FIXED	WITH DOWELS c:Ø10	
<p>$\alpha = 0^\circ \div 110^\circ$ H = 10.5</p>	STANDARD	0 MM.	060.040.175	060.041.170	060.060.173	060.069.170	060.070.172	060.071.174
		5 MM.	067.140.172	067.141.174	067.160.170	067.169.174	067.170.176	067.171.171
		10 MM.	061.140.170	061.141.172	061.160.175	061.169.172	061.170.174	061.171.176
		17 MM.	062.140.175	062.141.170	062.160.173	062.169.170	062.170.172	062.171.174
	SELF-OPENING	0 MM.	060.040.153	060.041.155	060.060.151	060.069.155	060.070.150	060.071.152
		5 MM.	067.140.150	067.141.152	067.160.155	067.169.152	067.170.154	067.171.156
		10 MM.	061.140.155	061.141.150	061.160.153	061.169.150	061.170.152	061.171.154
		17 MM.	062.140.153	062.141.155	062.160.151	062.169.155	062.170.150	062.171.152
<p>LARGE DISPLACEMENT $\alpha = 0^\circ \div 95^\circ$ H = 10.5</p>	0 MM.	060.140.161	060.141.163	060.160.166	060.169.163	060.170.165	060.171.160	
	10 MM.	061.140.166	061.141.161	061.160.164	061.169.161	061.170.163	061.171.165	
	17 MM.	062.140.164	062.141.166	062.160.162	062.169.166	062.170.161	062.171.163	
<p>$\alpha = 0^\circ \div 172^\circ$ H = 10.5</p>	0 MM.	060.040.046	060.041.041	060.060.840	060.069.844	060.070.846	060.071.841	
	10 MM.	061.040.044	061.041.046	061.060.845	061.069.842	061.070.844	061.071.846	
<p>$\alpha = 15^\circ \div 125^\circ$ $\alpha = 30^\circ \div 140^\circ$ $\alpha = 45^\circ \div 155^\circ$ H = 10.5</p>	0 MM.	068.140.170	068.141.172	068.160.175	068.169.172	068.170.174	068.171.176	
	0 MM.	069.140.175	069.141.170	069.160.173	069.169.170	069.170.172	069.171.174	
	0 MM.	064.140.171	064.141.173	064.160.176	064.169.173	064.170.175	064.171.170	
<p>$\alpha = 90^\circ \div 200^\circ$ H = 10.5</p>	0 MM.	063.140.173	063.141.175	063.160.171	063.169.175	063.170.170	063.171.172	
	10 MM.	066.140.174	066.141.176	066.160.172	066.169.176	066.170.171	066.171.173	
<p>$\alpha = -45^\circ \div 65^\circ$ H = 10.5</p>	0 MM.	065.140.176	065.141.171	065.160.174	065.169.171	065.170.173	065.171.175	



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		
060.043.174	060.063.172	060.073.171	060.030.073	090.100.371
067.143.171	067.163.176	067.173.175	067.130.070	090.100.485
061.143.176	061.163.174	061.173.173	061.130.075	090.100.426
062.143.174	062.163.172	062.173.171	062.130.073	090.100.382
060.043.152	060.063.150	060.073.156	060.030.051	306.000.052
067.143.156	067.163.154	067.173.153	067.130.055	306.050.054
061.143.154	061.163.152	061.173.151	061.130.053	306.100.056
062.143.152	062.163.150	062.173.156	062.130.051	306.200.053
060.143.160	060.163.165	060.173.164		
061.143.165	061.163.163	061.173.162		
062.143.163	062.163.161	062.173.160		
060.043.045	060.063.846	060.073.845		
061.043.043	061.063.844	061.073.843		
068.143.176	068.163.174	068.173.173		
069.143.174	069.163.172	069.173.171		
064.143.170	064.163.175	064.173.174		
063.143.172	063.163.170	063.173.176		
066.143.173	066.163.171	066.173.170		
065.143.175	065.163.173	065.173.172		

2 MOUNTING PLATES

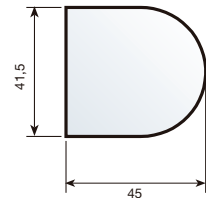
				2	4	6	9
		SCREW-FIXED	NICKEL-PLATED ZAMAK	083.041.114	083.041.210		
		KNOCK-IN	NICKEL-PLATED ZAMAK	083.141.111	083.141.214		
		SCREW-FIXED (WITH CENTERER)	NICKEL-PLATED STEEL	083.243.123	083.243.226		
		KNOCK-IN (WITH CENTERER)	NICKEL-PLATED STEEL	083.343.120	083.343.223		
		SCREW-FIXED (WITH CENTERER)	NICKEL-PLATED STEEL	083.743.122	083.743.225		
		KNOCK-IN (WITH CENTERER)	NICKEL-PLATED STEEL	083.748.125	083.748.221		
		PRE-MOUNTED EUROSCREW	NICKEL-PLATED STEEL	083.643.125	083.643.221		
		SCREW-FIXED	NICKEL-PLATED ZAMAK	083.241.115	083.241.211	083.241.314	083.241.410
		KNOCK-IN	NICKEL-PLATED ZAMAK	083.341.112	083.341.215	083.341.311	083.341.414
		PRE-MOUNTED EUROSCREW	NICKEL-PLATED ZAMAK	083.641.110	083.641.213	083.641.316	083.641.412
				5°	10°		
		5° AND 10° SPACER WEDGE FOR WING PLATE	WHITE	352.905.000	352.910.003		
			BROWN	352.905.011	352.910.014		
			BLACK	352.905.022	352.910.025		
	EURO-SCREW H = 11 - REF.: 951.211.063 H = 13 - REF.: 951.213.060 (STANDARD)			3 ADJUSTMENTS			

3 COVERS

GLASS DOOR COVERS

COVER

NYLON	SILVER-POLISH	351.700.226
NYLON	GOLD-POLISH	351.700.230
NYLON	BLACK	351.700.252



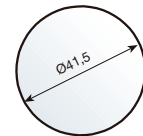
ADAPTOR

NYLON	351.710.004
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COVER

NYLON	SILVER-POLISH	351.900.220
NYLON	GOLD-POLISH	351.900.231
NYLON	BLACK	351.900.253



ADAPTOR

NYLON	351.910.005
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O-RING

NYLON	WHITE	351.110.001
NYLON	BROWN	351.111.003
NYLON	BLACK	351.112.005



HINGE ARM COVER

STEEL	NICKEL-PLATED	302.143.715
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4 DAMPERS

INDAmatic FOR "MESUCO 413" HINGE CUP.

NICKEL-PLATED PLASTIC	197.801.063
NICKEL-PLATED ZAMAK	197.802.065



INDAmatic
gradual closing

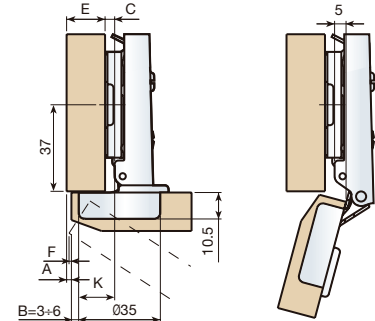
5 TECHNICAL DATA

"MESUCO 143" RAPID: OPENING 110°

Full overlay



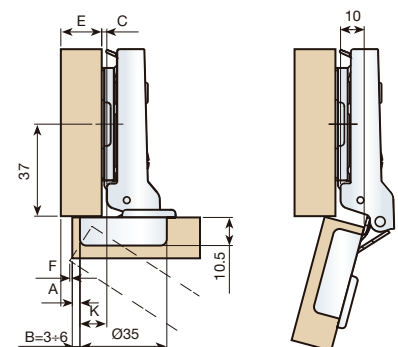
CALCULATION OF THE HEIGHT OF THE PLATE	
K = 15	
B = 3	
A = 2	
E = 16	
C ?	
C = K+A+B-E	
C = 15+2+3-16	
C = 4MM	
K = CONSTANT = 15MM	



Partial Overlay



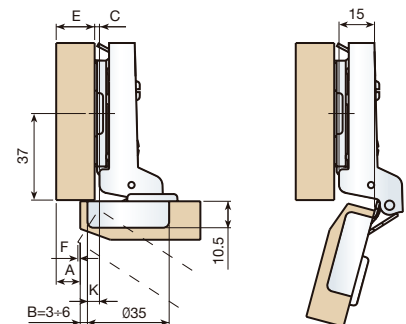
CALCULATION OF THE HEIGHT OF THE PLATE	
K = 10	
B = 3	
A = 5	
E = 16	
C ?	
C = K+A+B-E	
C = 10+5+3-16	
C = 2MM	
K = CONSTANT = 10MM	



Half overlay



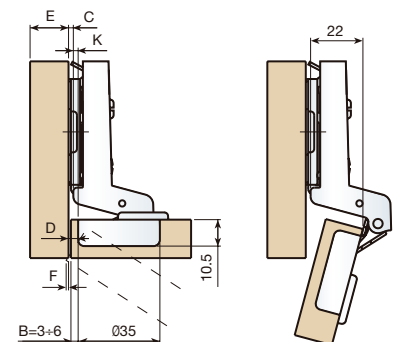
CALCULATION OF THE HEIGHT OF THE PLATE	
K = 5	
B = 3	
A = 10	
E = 16	
C ?	
C = K+A+B-E	
C = 5+10+3-16	
C = 2MM	
K = CONSTANT = 5MM	



Full inset

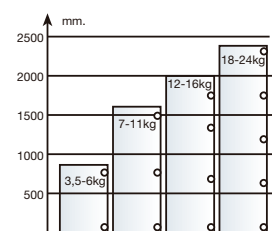


CALCULATION OF THE HEIGHT OF THE PLATE	
K = -2	
B = 3	
D = 1	
C ?	
C = D+B+K	
C = 1+3-2	
C = 2MM	
K = CONSTANT = -2MM	



LATERAL DOOR DISPLACEMENT (F).

MM	DOOR THICKNESS									
	B	16	17	18	19	20	21	22	23	24
3	0,6	0,8	1,1	1,5	2	2,6	3,3	4	4,9	
4	0,6	0,8	1,1	1,4	1,8	2,4	3	3,7	4,5	
5	0,6	0,8	1	1,4	1,7	2,2	2,7	3,4	4,1	
6	0,5	0,7	1	1,3	1,7	2,1	2,6	3,2	3,8	

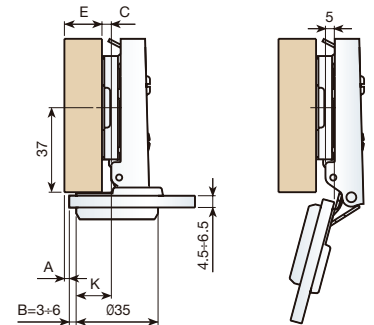


■ "MESUCO 143" RAPID: OPENING 110° GLASS DOOR HINGE

Full overlay



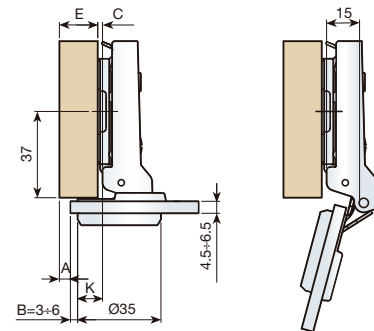
CALCULATION OF THE HEIGHT OF THE PLATE	
K = 15	
B = 3	
A = 2	
E = 16	
C ?	
$C = K+A+B-E$	
$C = 15+2+3-16$	
C = 4mm	
K = CONSTANT = 15MM	



Partial Overlay



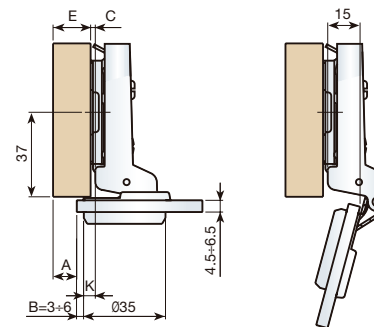
CALCULATION OF THE HEIGHT OF THE PLATE	
K = 10	
B = 3	
A = 5	
E = 16	
C ?	
$C = K+A+B-E$	
$C = 10+5+3-16$	
C = 2mm	
K = CONSTANT = 10MM	



Half overlay



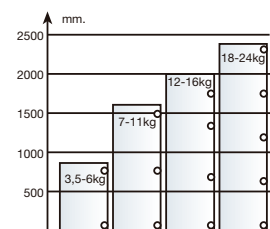
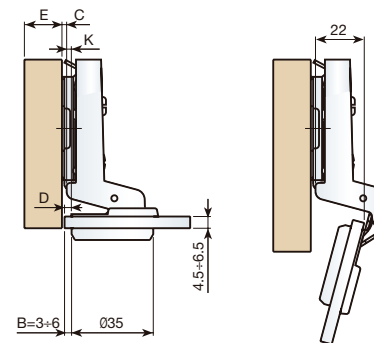
CALCULATION OF THE HEIGHT OF THE PLATE	
K = 5	
B = 3	
A = 10	
E = 16	
C ?	
$C = K+A+B-E$	
$C = 5+10+3-16$	
C = 2mm	
K = CONSTANT = 5MM	



Full inset



CALCULATION OF THE HEIGHT OF THE PLATE	
K = -2	
B = 3	
D = 1	
C ?	
$C = D+B+K$	
$C = 1+3-2$	
C = 2mm	
K = CONSTANT = -2MM	



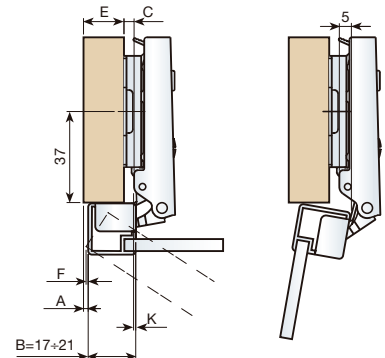
HINGES / DOOR

"MESUCO 143" RAPID: OPENING 110° HINGE FOR ALUMINIUM FRAMES

Full overlay



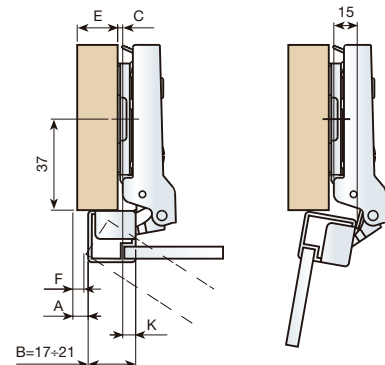
CALCULATION OF THE HEIGHT OF THE PLATE
 $K = 1$
 $B = 19$
 $A = 2$
 $E = 16$
 $C ?$
 $C = A+B-E-K$
 $C = 2+19-16-1$
 $C = 4\text{MM}$
 $K = \text{CONSTANT} = 1\text{MM}$



Partial Overlay



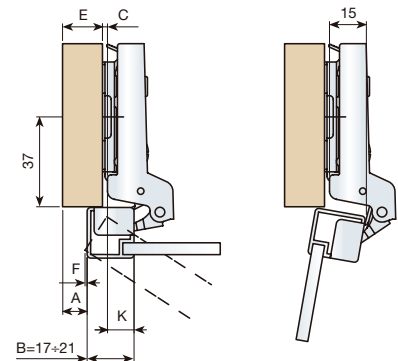
CALCULATION OF THE HEIGHT OF THE PLATE
 $K = 6$
 $B = 20$
 $A = 8$
 $E = 16$
 $C ?$
 $C = A+B-E-K$
 $C = 8+20-16-6$
 $C = 4\text{MM}$
 $K = \text{CONSTANT} = 6\text{MM}$



Half overlay



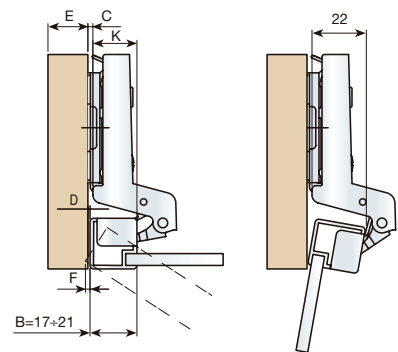
CALCULATION OF THE HEIGHT OF THE PLATE
 $K = 11$
 $B = 20$
 $A = 9$
 $E = 16$
 $C ?$
 $C = A+B-E-K$
 $C = 9+20-16-11$
 $C = 2\text{MM}$
 $K = \text{CONSTANT} = 11\text{MM}$



Full inset

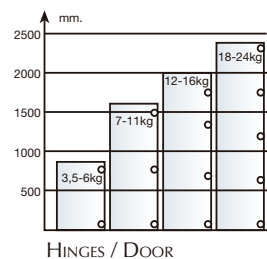


CALCULATION OF THE HEIGHT OF THE PLATE
 $K = 18$
 $B = 19$
 $D = 1$
 $C ?$
 $C = D+B-K$
 $C = 1+19-18$
 $C = 2\text{MM}$
 $K = \text{CONSTANT} = 18\text{MM}$



LATERAL DOOR DISPLACEMENT (F).

MM	DOOR THICKNESS									
	B	16	17	18	19	20	21	22	23	24
17		0,6	0,8	1,1	1,5	2,2	2,9	3,8	4,7	5,6
18		0,5	0,8	1,1	1,4	1,9	2,6	3,3	4,2	5
19		0,5	0,7	1	1,3	1,8	2,3	3	3,7	4,6
20		0,5	0,7	1	1,3	1,7	2,1	2,7	3,4	4,1
21		0,5	0,7	0,9	1,2	1,6	2	2,5	3,1	3,8

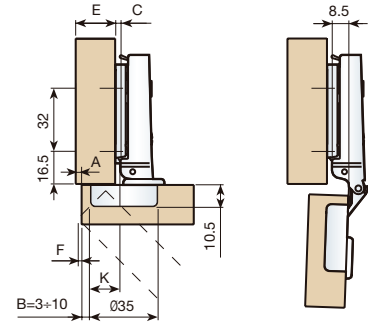


■ "MESUCO 143" RAPID: OPENING 95° LARGE DISPLACEMENT

Full overlay



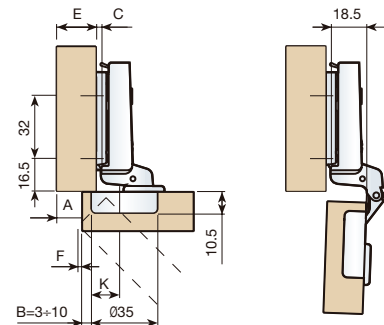
CALCULATION OF THE HEIGHT OF THE PLATE
K = 15
B = 6
A = 3
E = 22
C ?
 $C = K + A + B - E$
 $C = 15 + 3 + 6 - 22$
C = 2MM
K = CONSTANT = 15MM



Half overlay



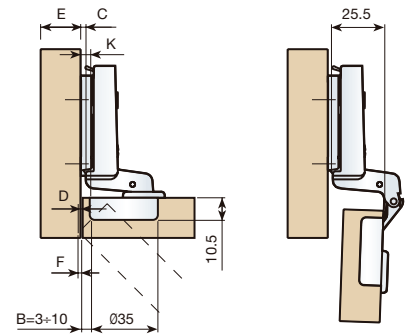
CALCULATION OF THE HEIGHT OF THE PLATE
K = 5
B = 6
A = 13
E = 22
C ?
 $C = K + A + B - E$
 $C = 5 + 13 + 6 - 22$
C = 2MM
K = CONSTANT = 5MM



Full inset

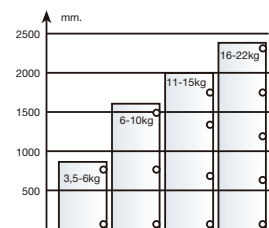


CALCULATION OF THE HEIGHT OF THE PLATE
K = -2
B = 5
D = 1
C ?
 $C = D + B - K$
 $C = 5 + 1 - 2$
C = 4MM
K = CONSTANT = -2MM



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	

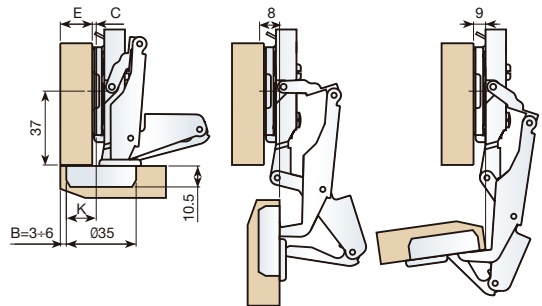


■ "MESUCO 143" RAPID: OPENING 172°

Full overlay



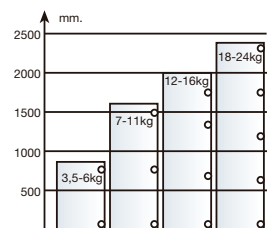
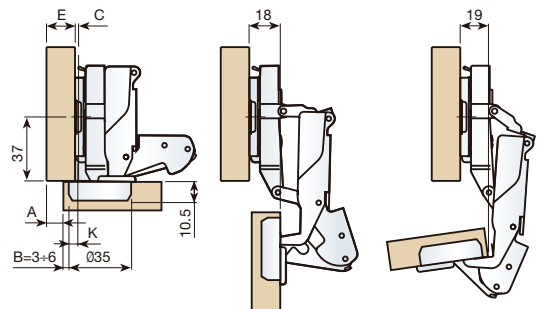
CALCULATION OF THE HEIGHT OF THE PLATE	
K = 15	
B = 3	
A = 0	
E = 16	
C ?	
$C = K + A + B - E$	
$C = 15 + 0 + 3 - 16$	
$C = 2\text{MM}$	
K = CONSTANT = 15MM	



Half overlay

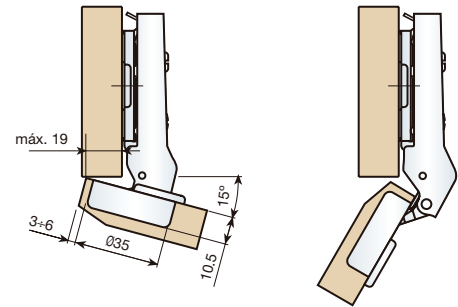


CALCULATION OF THE HEIGHT OF THE PLATE	
K = 5	
B = 6	
A = 13	
E = 22	
C ?	
$C = K + A + B - E$	
$C = 5 + 13 - 6 - 22$	
$C = 2\text{MM}$	
K = CONSTANT = 5MM	

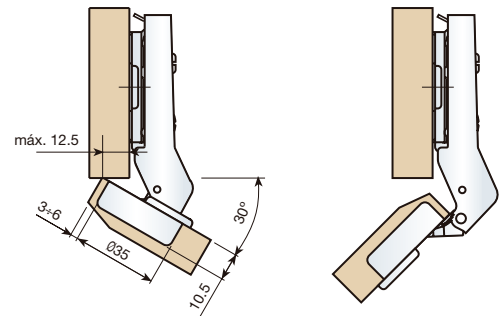


HINGES / DOOR

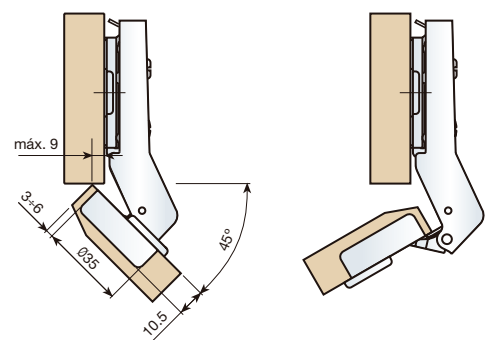
■ "MESUCO 143" RAPID: OPENING 15° ÷ 125°



■ "MESUCO 143" RAPID: OPENING 30° ÷ 140°

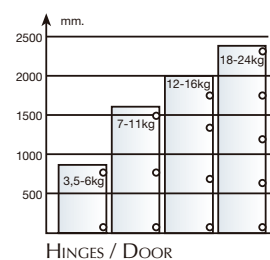


■ "MESUCO 143" RAPID: OPENING 45° ÷ 155°



LATERAL DOOR DISPLACEMENT (F).

MM	DOOR THICKNESS									
	B	16	18	20	22	25	28	30	32	35
3		0,6	0,8	1,1	1,5	2	2,6	3,3	4	4,9
4		0,6	0,8	1,1	1,4	1,8	2,4	3	3,7	4,5
5		0,3	0,8	1	1,4	1,7	2,2	2,7	3,4	4,1
6		0,5	0,7	1	1,3	1,7	2,1	2,6	3,2	3,8

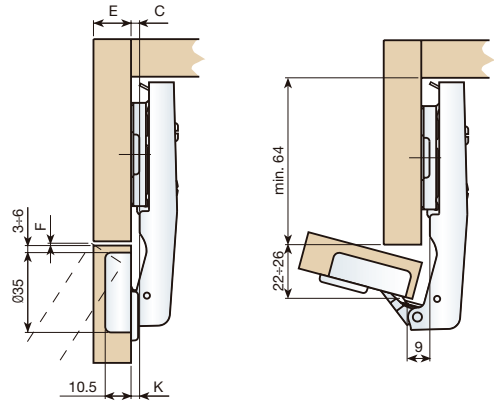


■ "MESUCO 143" RAPID: OPENING 90° ÷ 200°

Full overlay



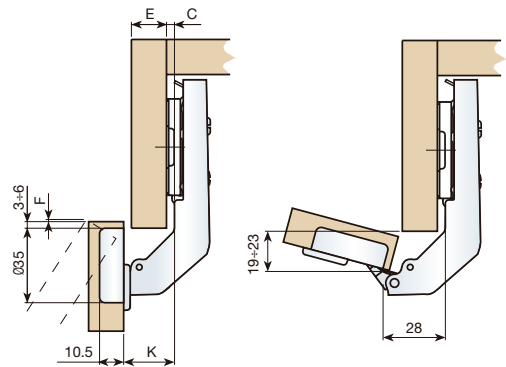
K = CONSTANT = 2MM



Half overlay

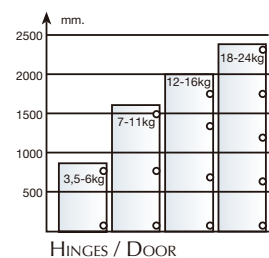


K = CONSTANT = 21,5MM



LATERAL DOOR DISPLACEMENT (F).

MM	DOOR THICKNESS									
	B	16	17	18	19	20	21	22	23	24
3	0,6	0,8	1,1	1,5	2	2,6	3,3	4	4,9	
4	0,6	0,8	1,1	1,4	1,8	2,4	3	3,7	4,5	
5	0,3	0,8	1	1,4	1,7	2,2	2,7	3,4	4,1	
6	0,5	0,7	1	1,3	1,7	2,1	2,6	3,2	3,8	



■ "MESUCO 143" RAPID: OPENING -45° ÷ 65°

Full overlay



K = CONSTANT = 2MM

