KSH Hadzhidimitrov
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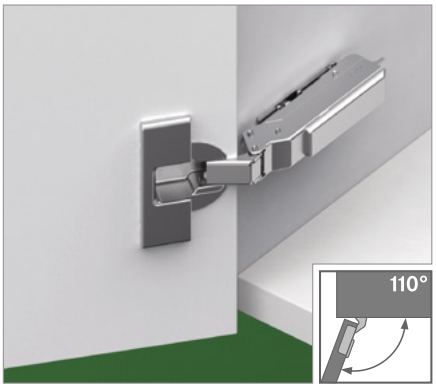
G*GRASS

TIOMOS панта клипс 110 градуса (до 24 мм дебелина на вратата)



- Отваряне 110°
- Оптимална за дебелини до 24 мм
- Реглаж в дълбочина
- Минимална фуга
- 3 Д реглаж с подходяща основа

Има ги в 3 варианта
- С вградено плавно (3 степенно регулиране на силата)
- Без плавно затваряне
- Без пружина

ИНФОРМАЦИЯ ЗА ПОРЪЧКА ЗА РАЗПРОБИВАНЕ 45/9.5

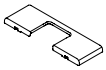
Припокриване		Отстъп	Плавно		Без пружина	Код/цена			
						Клипс		Impresso	Цена
			Със	Без		Монтаж с винтове	Цена	Без винтове за чашката	
		0	■	-	-	**0033-F028 138 519 228**	7,50 лв		
			-	■	-	**0033-F045 138 457 228**	4,65 лв		
			-	■	■	*0033-F046 138 579 228*	5,00 лв	–	
Покрит кант[1], ниско рамо		3	■	-	-	**0033-F028 138 520 228**	7.15 лв	**0033-F017 139 500 228**	7.64 лв
			-	■	-	**0033-F045 138 458 228**	3.42 лв		
			-	■	■	*0033-F046 138 580 228*	4.40 лв	–	
Полуокрит кант[2], средно рамо		9.5	■	-	-	**0033-F028 138 521 228**	8.21 лв	**0033-F017 139 501 217**	9.52 лв
			-	■	-	**0033-F045 138 459 228**	4.74 лв		
			-	■	■	*0033-F046 138 581 217*	6.15 лв	–	
Открит кант[2], високо рамо		19	■	-	-	**0033-F028 138 522 228**	8.75 лв	**0033-F017 139 502 228**	9.35 лв
			-	■	-	**0033-F045 138 460 228**	5.28 лв		
			-	■	■	*0033-F046 138 582 217*	7.40 лв	–	

[1] Материал на чашката: стомана, никел/ материал на тялото: стомана, никел
[2] Материал на чашката: стомана, никел/ материал на тялото: цам, никел

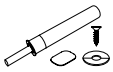
Основа /за повече видове виж накрая/

	Описание	Код	Цена
	Основа за панта Timos клипс, закрепване с винт за дърво ф3.5 x 15 мм	**0033-F058 139 721 228**	0,60 лв

Капачки

	Описание	За застъп	Надпис	Код	Цена
	Капачка за тяло на панта Timos, стомана, никел, надпис GRASS	0/3/9.5/19	Лого **GRASS**	**0033-F072 135 550 247**	0,33 лв
	Капачка за чашка на панта Timos, стомана, никел, без надпис	0/3/9.5/19	-	**0033-F072 1355 03 540**	0,66 лв

Аксесоари

	Описание	Код/цена
	Скоба за намаляване на ъгъла на отваряне на 85 гр.	**0033-F072 135 751 540** 0,90 лв
	Tipmatic Plus кръглъл, за отвор ф10x60 мм	**0033-F069 135 061 513** 11.58 лв

	Designation	Art.-no.
	Countersunk wood screw Ø 3.5 x 15 mm	
	Unclipping protector	

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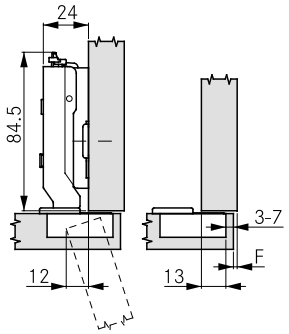
G*GRASS

TIOMOS панта клипс 110 градуса (до 24 мм дебелина на вратата)

ИНФОРМАЦИЯ ЗА МОНТАЖ

All dimensions in millimetres

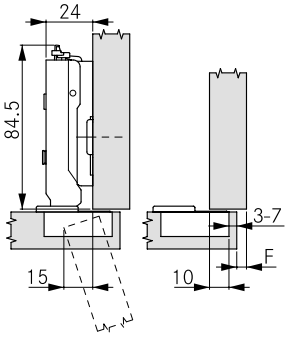
Full overlay K0



Mounting plate height 2

Door overlay \ Mounting plate height	Cup distance 3	4	5	6	7
24.0					-2
23.0				-2	
22.0			-2		0
21.0		-2		0	
20.0	-2		0		2
19.0		0		2	3
18.5					3.5
18.0	0		2	3	
17.5				3.5	
17.0		2	3		
16.5			3.5		
16.0	2	3			
15.5		3.5			
15.0	3				
14.5	3.5				

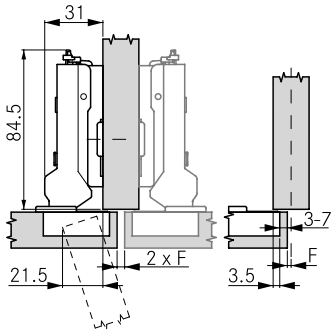
Overlay K3



Mounting plate height 2

Door overlay \ Mounting plate height	Cup distance 3	4	5	6	7
21.0					-2
20.0				-2	
19.0			-2		0
18.0		-2		0	
17.0	-2		0		2
16.5					
16.0		0		2	3
15.5					3.5
15.0	0		2	3	
14.5				3.5	
14.0		2	3		
13.5			3.5		
13.0	2	3			
12.5		3.5			
12.0	3				
11.5	3.5				

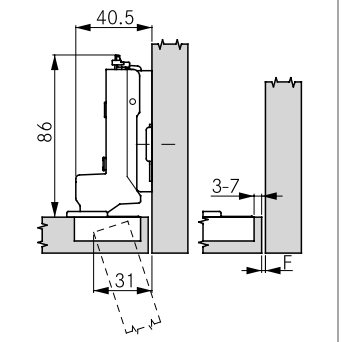
Half overlay K9.5



Mounting plate height 2

Door overlay \ Mounting plate height	Cup distance 3	4	5	6	7
14.5					-2
13.5				-2	
12.5			-2		0
11.5		-2		0	
10.5	-2		0		2
10.0					
9.5		0		2	3
9.0					3.5
8.5	0		2	3	
8.0				3.5	
7.5		2	3		
7.0			3.5		
6.5	2	3			
6.0		3.5			
5.5	3				
5.0	3.5				

Inset [1] K19



Mounting plate height 2

[1] Set mounting plate back by door thickness +1.5 mm

Door reveal \ Mounting plate height	Cup distance 3	4	5	6	7
0.0		0		2	3
0.5					3.5
1.0	0		2	3	
1.5				3.5	
2.0		2	3		
3.0	2	3			
4.0	3				

MINIMUM GAP

Door thickness \ Minimum gap	Cup distance 3	4	5	6	7
24.0	1.0	1.0	1.0	1.2[2]	2.1[2]
22.0	1.0	1.0	1.0	1.0	1.5[2]
21.0	1.0	1.0	1.0	1.0	1.2[2]
20.0	1.0	1.0	1.0	1.0	1.0
19.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0
17.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0

[2] 1.0 at 85° opening angle

MINIMUM REVEAL

Door thickness \ Minimum reveal (F)	Cup distance 3	4	5	6	7
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6

85° OPENING ANGLE

Door thickness \ Minimum reveal (F) [3] at 85°	Cup distance 3	4	5	6	7
36.0	11.1	10.3	9.7	9.1	8.5
30.0	5.4	4.8	4.4	4.3	4.2
28.0	3.7	3.6	3.5	3.4	3.3
26.0	2.9	2.8	2.8	2.7	2.6
24.0	2.2	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
16.0	0.6	0.6	0.6	0.6	0.6

[3] 85° opening angle reduction clip

NOTES

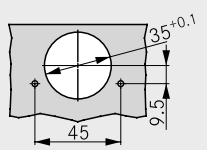
The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance.

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

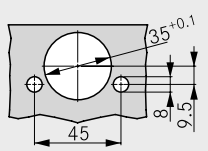
For door thicknesses of 24 mm and above, a trial fitting is recommended.

DRILLING PATTERNS 45/9.5

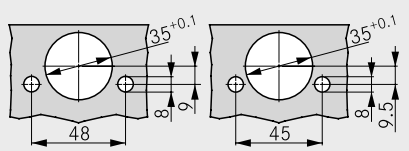
For screw fixing



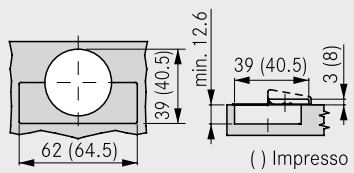
For press fitting



Combination drilling pattern for Impresso



CUP DIMENSIONS



All dimensions in millimetres. Subject to changes

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G*GRASS

TIOMOS панта клипс 120 градуса (до 24 мм дебелина на вратата)

- 120° opening angle
- Optimum reveals for door thicknesses up to 22 mm
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate

Available in 3 versions:
- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ИНФОРМАЦИЯ ЗА ПОРЪЧКА ЗА РАЗПРОБИВАНЕ 45/9.5

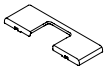
Door overlay		Отстъп	Плавно		Без пружина	Код/цена		
			Със	Без		Клипс Монтаж с винтове	Цена	
Full overlay[1]		0		-	-			
			-	■	-	**0033-F045 138 485 228**	3.85лв	
			-				–	
Overlay[1]		3		-	-			
			-		-			
			-				–	
Half overlay[2]		9.5		-	-			
			-		-			
			-				–	
Inset[2]		19		-	-			
			-		-			
			-				–	

[1] Cup material: steel, nickel-plated / Arm material: steel, nickel-plated
[2] Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

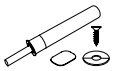
Основа /за повече видове виж накрая/

	Описание	Код	Цена
	Основа за панта Timos клипс, закрепване с винт за дърво ф3.5 x 15 мм	**0033-F058 139 721 228**	0,60 лв

Капачки

	Описание	За застъп	Надпис	Код	Цена
	Капачка за тяло на панта Timos, стомана, никел, надпис GRASS	0/3/9.5/19	Лого **GRASS**	**0033-F072 135 550 247**	0.33 лв
	Капачка за чашка на панта Timos, стомана, никел, без надпис	0/3/9.5/19	-	**0033-F072 1355 03 540**	0,66 лв

Аксесоари

	Описание	Код/цена
	Скоба за намаляване на ъгъла на отваряне на 85 гр.	**0033-F072 135 751 540** 0,90 лв
	Tipmatic Plus кръглъл, за отвор ф10х60 мм	**0033-F069 135 061 513** 11.58 лв

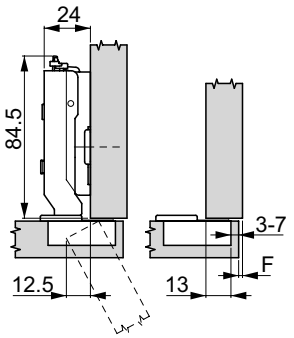
	Designation	Art.-no.
	Countersunk wood screw Ø 3.5 x 15 mm	
	Unclipping protector	

TIOMOS панта клипс 120 градуса (до 24 мм дебелина на вратата)

ИНФОРМАЦИЯ ЗА МОНТАЖ

All dimensions in millimetres

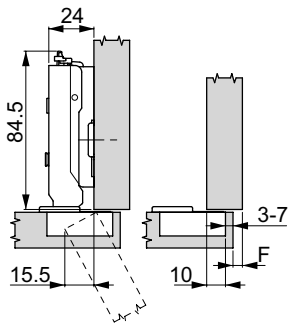
Full overlay K0



Mounting plate height 2

Door overlay \ Cup distance	3	4	5	6	7
24.0					-2
23.0				-2	
22.0			-2		0
21.0		-2		0	
20.0	-2		0		2
19.0		0		2	3
18.5					3.5
18.0	0		2	3	
17.5				3.5	
17.0		2	3		
16.5			3.5		
16.0	2	3			
15.5		3.5			
15.0	3				
14.5	3.5				
Mounting plate height					

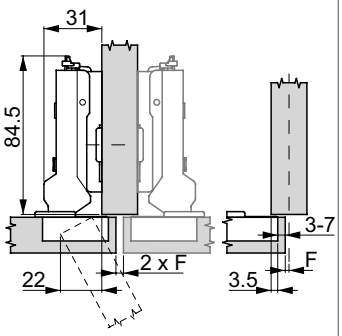
Overlay K3



Mounting plate height 2

Door overlay \ Cup distance	3	4	5	6	7
21.0					-2
20.0				-2	
19.0			-2		0
18.0		-2		0	
17.0	-2		0		2
16.5					
16.0		0		2	3
15.5					3.5
15.0	0		2	3	
14.5				3.5	
14.0		2	3		
13.5			3.5		
13.0	2	3			
12.5		3.5			
12.0	3				
11.5	3.5				
Mounting plate height					

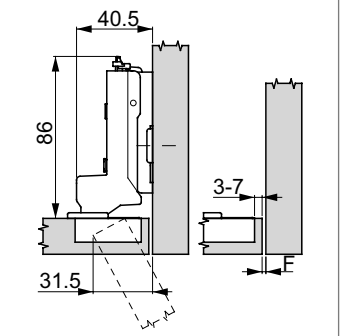
Half overlay K9.5



Mounting plate height 2

Door overlay \ Cup distance	3	4	5	6	7
14.5					-2
13.5				-2	
12.5			-2		0
11.5		-2		0	
10.5	-2		0		2
10.0					
9.5		0		2	3
9.0					3.5
8.5	0		2	3	
8.0				3.5	
7.5		2	3		
7.0			3.5		
6.5	2	3			
6.0		3.5			
5.5	3				
5.0	3.5				
Mounting plate height					

Inset[1] K19



Mounting plate height 2

[1] Set mounting plate back by door thickness +1.5 mm

Door reveal \ Cup distance	3	4	5	6	7
0.0		0		2	3
0.5					3.5
1.0	0		2	3	
1.5				3.5	
2.0		2	3		
3.0	2	3			
4.0	3				
Mounting plate height					

MINIMUM GAP

Door thickness \ Cup distance	3	4	5	6	7
24.0	1.2[2]	2.1[2]	3.0[2]	3.9[2]	4.7[2]
22.0	1.0	1.1[2]	2.0[2]	2.9[2]	3.8[2]
21.0	1.0	1.0	1.6[2]	2.4[2]	3.3[2]
20.0	1.0	1.0	1.1[2]	2.0[2]	2.9[2]
19.0	1.0	1.0	1.0	1.5[2]	2.4[2]
18.0	1.0	1.0	1.0	1.0	1.9[2]
17.0	1.0	1.0	1.0	1.0	1.5[2]
16.0	1.0	1.0	1.0	1.0	1.0
Minimum gap					

[2] 1.0 at 85° opening angle

MINIMUM REVEAL

Door thickness \ Cup distance	3	4	5	6	7
24.0	6.4	5.4	4.4	3.4	2.4
22.0	3.0	2.0	1.5	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6
Minimum reveal (F)					

85° OPENING ANGLE

Door thickness \ Cup distance	3	4	5	6	7
36.0	11.1	10.3	9.7	9.1	8.5
30.0	5.4	4.8	4.4	4.3	4.2
28.0	3.7	3.6	3.5	3.4	3.3
26.0	2.9	2.8	2.8	2.7	2.6
24.0	2.2	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
16.0	0.6	0.6	0.6	0.6	0.6
Minimum reveal (F[3]) at 85°					

[3] 85° opening angle reduction clip

NOTES

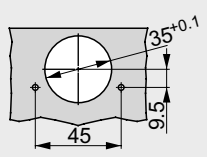
The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance.

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

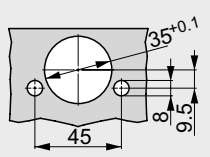
For door thicknesses of 24 mm and above, a trial fitting is recommended.

DRILLING PATTERNS 45/9.5

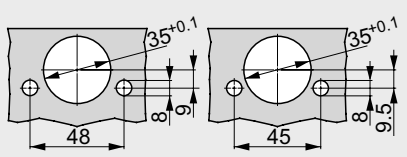
For screw fixing



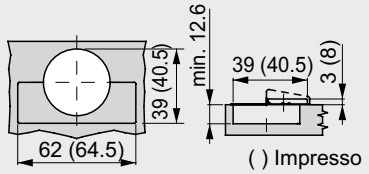
For press fitting



Combination drilling pattern for Impresso



CUP DIMENSIONS



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G*GRASS

TIOMOS панта клипс 120/-30A градуса (покрит кант)

- For -30° angled cabinets
- 120° opening angle
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate
- Minimum reveals

Available in 2 versions:
- With integrated damper (3 adjustable damping levels)
- Without integrated damper

ИНФОРМАЦИЯ ЗА ПОРЪЧКА ЗА РАЗПРОБИВАНЕ 45/9.5

Door overlay			Плавно		Без пружина	Код/цена		
			Със	Без		Клипс Монтаж с винтове	Цена	Impresso without tools [2]
Overlay[1]			■	-	-	0033-F028 138 556 213	15.90лв	
			-		-			

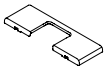
[1] Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

[2] Available on request

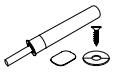
Основа /за повече видове виж накрая/

	Описание	Код	Цена
	Основа за панта Timos клипс, закрепване с винт за дърво ф3.5 x 15 мм	0033-F058 139 721 228	0,60 лв

Капачки

	Описание	За застъп	Надпис	Код	Цена
	Капачка за тяло на панта Timos, стомана, никел, надпис GRASS	0/3/9.5/19	Лого GRASS	0033-F072 135 550 247	0,33 лв
	Капачка за чашка на панта Timos, стомана, никел, без надпис	0/3/9.5/19	-	0033-F072 1355 03 540	0,66 лв

Аксесоари

	Описание	Код/цена
	Скоба за намаляване на ъгъла на отваряне на 85 гр.	0033-F072 135 751 540 0,90 лв
	Tipmatic Plus кръглъл, за отвор ф10х60 мм	0033-F069 135 061 513 11.58 лв

	Designation	Art.-no.
	Countersunk wood screw Ø 3.5 x 15 mm	
	Unclipping protector	

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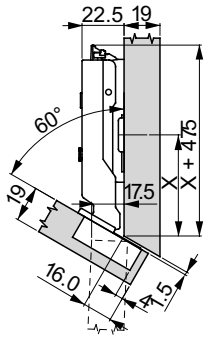
TIOMOS панта клипс 120/-30A градуса (покрит кант)

ИНФОРМАЦИЯ ЗА МОНТАЖ

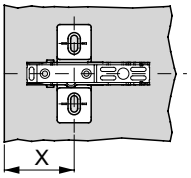
All dimensions in millimetres

overlay



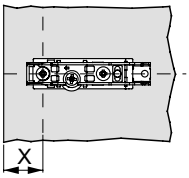
Mounting plate height 0

Door overlay	Cup distance 3	4	5	6	7
19.0					0
18.0				0	
17.0			0		
16.5					2
16.0		0			
15.5				2	
15.0	0				3
14.5			2		3.5
14.0				3	
13.5		2		3.5	
13.0			3		
12.5	2		3.5		
12.0		3			6
11.5		3.5			
11.0	3			6	
10.5	3.5				
10.0			6		
9.0		6			
8.0	6				
	Mounting plate height				



Cross mounting plates with fixing distance 37

	Mounting plate height 0	2	3	3.5	6
X	53.5	55	55.5	55.5	57
	Cross mounting plate position (X)				



Linear mounting plates

	Mounting plate height 0	2	3	3.5
X	36.5	38	38.5	38.5
	Linear mounting plate position (X)			

MINIMUM REVEAL

Door thickness	Cup distance 3	4	5	6	7
24.0	6.4	5.4	4.4	3.4	2.4
22.0	3.0	2.0	1.5	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	1.0	1.0	1.0	1.0	1.5
16.0	1.0	1.0	1.0	1.0	1.0
	Minimum reveal (F)				

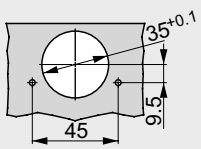
NOTES

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

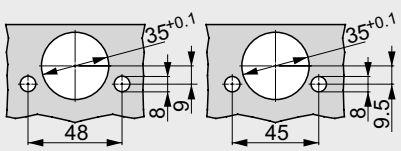
We recommend a trial fitting.

DRILLING PATTERNS 45/9.5

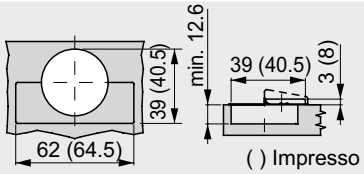
For screw fixing



Combination drilling pattern for Impresso



CUP DIMENSIONS



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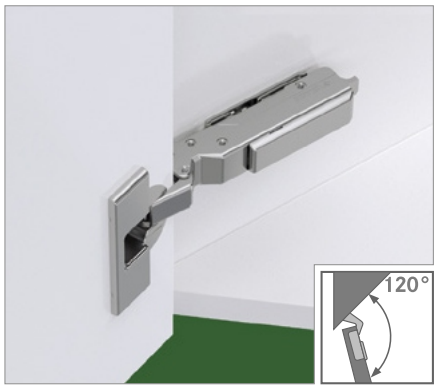
G*GRASS

TIOMOS панта клипс 120/-45 градуса (покрит кант)



- Отваряне 120˚
- Панта за монтаж на -45˚ шкаф
- Минимална фуга
- Реглаж в дълбочина
- Минимална фуга
- 3 Д реглаж с подходяща основа

Има ги в 2 варианта
- С вградено плавно (3 степенно регулиране на силата)
- Без плавно затваряне

ИНФОРМАЦИЯ ЗА ПОРЪЧКА ЗА РАЗПРОБИВАНЕ 45/9.5

Припокриване			Плавно		Без пружина	Код		
			Със	Без		Клипс Монтаж с винтове	Цена	Impresso without tools [2]
Покрит канѓ, ниско рамо			■	-	-			
			-	■	-	**0033-F045 138 495 213**	10,08лв	

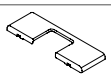
[1] Материал на чашката: стомана, никел/ материал на тялото: цам, никел

[2] Available on request

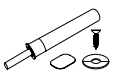
Основа /за повече видове виж накрая/

	Описание	Код	Цена
	Основа за панта Timos клипс, закрепване с винт за дърво ф3.5 x 15 мм	**0033-F058 139 721 228**	0,60 лв

Капачки

	Описание	За застъп	Надпис	Код	Цена
	Капачка за тяло на панта Timos, стомана, никел, надпис GRASS	0/3/9.5/19	Лого **GRASS**	**0033-F072 135 550 247**	0,33 лв
	Капачка за чашка на панта Timos, стомана, никел, без надпис	0/3/9.5/19	-	**0033-F072 1355 03 540**	0,66 лв

Аксесоари

	Описание	Код/цена
	Скоба за намаляване на ъгъла на отваряне на 85 гр.	**0033-F072 135 751 540** 0,90 лв
	Tipmatic Plus кръглъл, за отвор ф10х60 мм	**0033-F069 135 061 513** 11.58 лв

	Designation	Art.-no.
	Countersunk wood screw Ø 3.5 x 15 mm	
	Unclipping protector	

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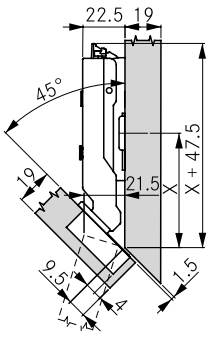
TIOMOS панта клипс 120/-45 градуса (покрит кант)

ИНФОРМАЦИЯ ЗА МОНТАЖ

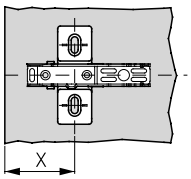
All dimensions in millimetres

overlay



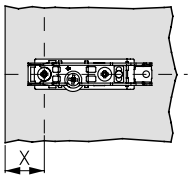
Mounting plate height 0

Door overlay	Cup distance 3	4	5	6	7
12.0					0
11.5				0	
10.5			0		
9.5		0			2
8.5	0			2	
8.0					3
7.5			2		3.5
7.0				3	
6.5		2		3.5	
6.0			3		
5.5	2		3.5		
5.0		3			
4.5		3.5			
4.0	3				6
3.5	3.5				
3.0				6	
2.0			6		
1.0		6			
0.0	6				
	Mounting plate height				



Cross mounting plates with fixing distance 37

	Mounting plate height 0	2	3	3.5	6
X	60.5	62.5	63.5	64	66.5
	Cross mounting plate position (X)				



Linear mounting plates

	Mounting plate height 0	2	3	3.5
X	43.5	45.5	46.5	47
	Linear mounting plate position (X)			

MINIMUM REVEAL

Door thickness	Cup distance 3	4	5	6	7
24.0	6.4	5.4	4.4	3.4	2.4
22.0	3.0	2.0	1.5	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	1.0	1.0	1.0	1.0	1.5
16.0	1.0	1.0	1.0	1.0	1.0
	Minimum reveal (F)				

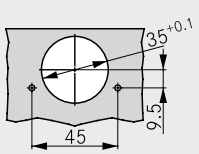
NOTES

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

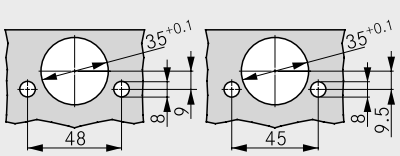
We recommend a trial fitting.

DRILLING PATTERNS 45/9.5

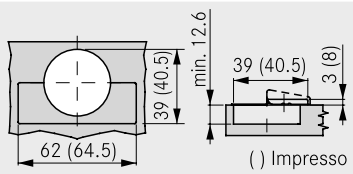
For screw fixing



Combination drilling pattern for Impresso



CUP DIMENSIONS



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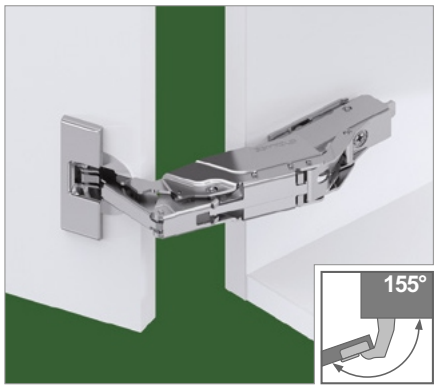
G*GRASS

TIOMOS панта клипс 155 градуса (до 32 мм дебелина на вратата)



- Отваряне 155˚
- За вградени чекмеджета или за изтеглящи рафтове
- Оптимална за дебелини до 32 мм
- Реглаж в дълбочина
- Минимална фуга
- 3 Д реглаж с подходяща основа

Има ги в 3 варианта

- С вградено плавно (3 степенно регулиране на силата)
- Без плавно затваряне
- Без пружина

ИНФОРМАЦИЯ ЗА ПОРЪЧКА ЗА РАЗПРОБИВАНЕ 45/9.5

Припокриване		Отстъп	Плавно		Без пружина	Код		
			Със	Без		Клипс Монтаж с винтове	Цена	Impresso без инструмент
Покрит кант[1], ниско рамо		0	■	-	-	**0033-F028 138 561 217**	15.00 лв	
			-	■	-	**0033-F045 138 499 217**	12.00 лв	
			-	■	■	***0033-F046 138 621 213***	13,20 лв	
Полуокрит кант[1], средно рамо		3	■	-	-			
			-	■	-			
			-	■	■			
Открит кант[1], високо рамо		9.5	■	-	-			
			-	■	-			
			-	■	■			

[1] Материал на чашката: цам, никел/ материал на тялото: цам, никел

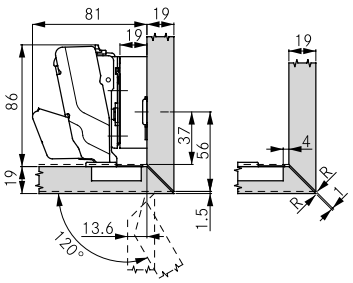
Основа /за повече видове виж накрая/

	Описание	Код	Цена
	Основа за панта Timos клипс, закрепване с винт за дърво ф3.5 x 15 мм	**0033-F058 139 721 228**	0,47 лв

Клипс за ограничаване на отварянето

	Описание		
	120° градусов клипс за ограничаване на отварянето Подходящ за всички Tiomos 160° панти. Предотвратява удрянето на вратата в корпуса или стената. Лесно поставяне без инструмент. Пластмаса, черно	**0033-F072 135 753 228**	1,15 лв

MITRED APPLICATION (ON ALL SIDES)

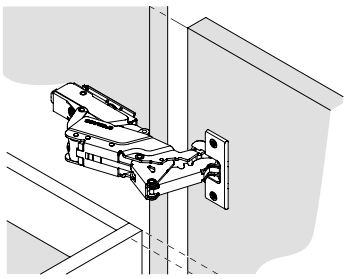


With 0 cranking, mounting plate height 19 mm and cup distance 4 mm, door and cabinet edges can meet at mitred angles on all 4 sides.

Use 120° opening angle reduction clip.

Door thickness (TS)	Mitred application circumferential	Mitred application lateral
	R (min.)	R (min.)
19-20	1.0	0
22	2.0	0
24	3.0	1.0
26	4.2	2.5
28	5.4	3.8
30	6.5	5.3

ZERO PROTRUSION



For cabinets with inset drawers.

At 0 cranking, and with all mounting plate thicknesses, the door protrudes inwards at 90°. With cranking size 3 and mounting plate height 3 mm, the door will be flush with the cabinet.

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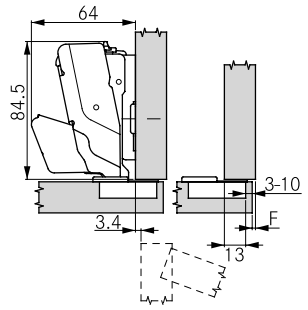
G*GRASS

TIOMOS панта клипс 155 градуса (до 32 мм дебелина на вратата)

ИНФОРМАЦИЯ ЗА МОНТАЖ

All dimensions in millimetres

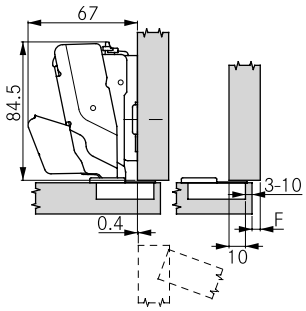
Full overlay K0



Mounting plate height 2

Door overlay \ Cup distance	3	4	5	6	7	8	9	10
27.0								-2
26.0							-2	
25.0						-2		0
24.0					-2		0	
23.0				-2		0		2
22.0			-2		0		2	3
21.0		-2		0		2	3	
20.0	-2		0		2	3		
19.0		0		2	3			
18.5					3.5			
18.0	0		2	3				
17.5				3.5				
17.0		2	3					
16.5			3.5					
16.0	2	3						
15.5		3.5						
15.0	3							
14.5	3.5							
Mounting plate height								

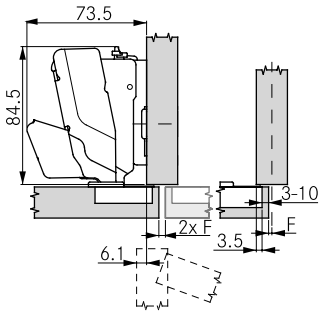
Overlay K3



Mounting plate height 2

Door overlay \ Cup distance	3	4	5	6	7	8	9	10
24.0								-2
23.0							-2	
22.0						-2		0
21.0					-2		0	
20.0				-2		0		2
19.0			-2		0		2	3
18.0		-2		0		2	3	
17.0	-2		0		2	3		
16.5						3.5		
16.0		0		2	3			
15.5					3.5			
15.0	0		2	3				
14.5				3.5				
14.0		2	3					
13.5			3.5					
13.0	2	3						
12.5		3.5						
12.0	3							
11.5	3.5							
Mounting plate height								

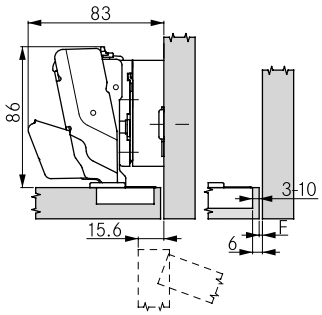
Half overlay K9.5



Mounting plate height 2

Door overlay \ Cup distance	3	4	5	6	7	8	9	10
17.5								-2
16.5							-2	
15.5						-2		0
14.5					-2		0	
13.5				-2		0		2
12.5			-2		0		2	3
11.5		-2		0		2	3	
10.5	-2		0		2	3		
10.0						3.5		
9.5		0		2	3			
9.0					3.5			
8.5	0		2	3				
8.0				3.5				
7.5		2	3					
7.0			3.5					
6.5	2	3						
6.0		3.5						
5.5	3							
5.0	3.5							
Mounting plate height								

Inset [1] K0



Cranking 0, mounting plate height 21

[1] Set mounting plate back by door thickness +1.5 mm

Door reveal \ Cup distance	3	4	5	6
0.0		19		21
0.5				
1.0	19		21	
1.5				
2.0		21		
3.0	21			
4.0				
Mounting plate height				

MINIMUM GAP

Door thickness \ Cup distance	3	4	5	6	7	8	9	10
32.0	1.0	1.0						
31.0	1.0	1.0	1.0					
30.0	1.0	1.0	1.0					
29.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
28.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
26.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
25.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
22.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
21.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
20.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Minimum gap								

MINIMUM REVEAL

Door thickness \ Cup distance	3	4	5	6	7	8	9	10
32.0	0.2	0.2						
31.0	0.2	0.2	0.2	0.2				
30.0	0.2	0.2	0.2	0.2	0.2			
29.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minimum reveal (F)								

only possible with 120° angle red. clip

NOTES

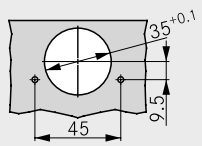
The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance.

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

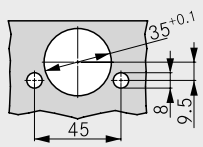
No reveal is required for door thicknesses up to 28 mm. From 29 mm door thickness, we recommend a trial fitting.

DRILLING PATTERNS 45/9.5

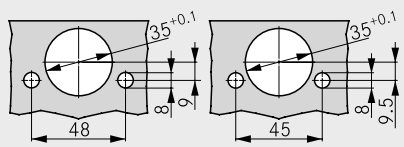
For screw fixing



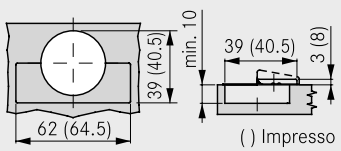
For press fitting



Combination drilling pattern for Impresso



CUP DIMENSIONS



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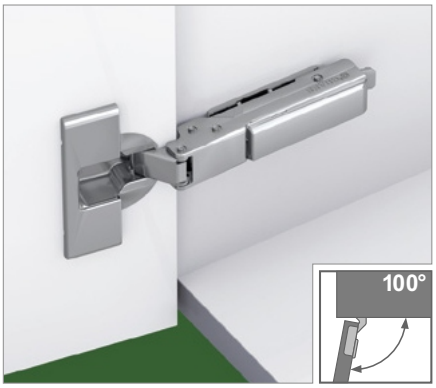
G*GRASS

TIOMOS панта клипс 100 градуса /за хладилник/



- Hinge for refrigerator doors (sliding system)
- 100° opening angle
- Flat hinge arm
- With self-closing mechanism (with spring)
- 3-dimensional adjustment with appropriate mounting plate

Available in 1 version:
- Without integrated damper

ИНФОРМАЦИЯ ЗА ПОРЪЧКА ЗА РАЗПРОБИВАНЕ 45/9.5

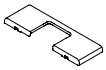
Door overlay		Отстъп	Плавно		Без пружина	Код		
			Със	Без		Клипс Монтаж с винтове	Цена	
Overlay[1]		3	-	■	-	**0033-F045 139 071 213**	9,65 лв	

[1] Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

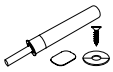
Основа /за повече видове виж накрая/

	Описание	Код	Цена
	Основа за панта Timos клипс, закрепване с винт за дърво ф3.5 x 15 мм	**0033-F058 139 721 228**	0,60 лв

Капачки

	Описание	За застъп	Надпис	Код	Цена
	Капачка за тяло на панта Timos, стомана, никел, надпис GRASS	0/3/9.5/19	Лого **GRASS**	**0033-F072 135 550 247**	0,33 лв
	Капачка за чашка на панта Timos, стомана, никел, без надпис	0/3/9.5/19	-	**0033-F072 1355 03 540**	0,66 лв

Аксесоари

	Описание	Код/цена
	Скоба за намаляване на ъгъла на отваряне на 85 гр.	**0033-F072 135 751 540** 0,90 лв
	Tipmatic Plus кръглъл, за отвор ф10x60 мм	**0033-F069 135 061 513** 11,58 лв

	Designation	Art.-no.
	Countersunk wood screw Ø 3.5 x 15 mm	
	Unclipping protector	

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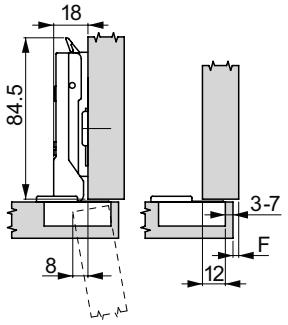
GRASS

TIOMOS панта клипс 100 градуса /за хладилник/

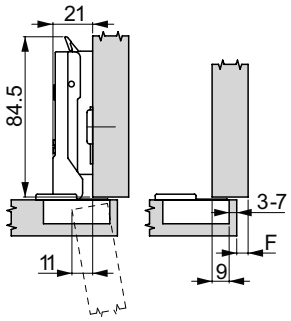
ИНФОРМАЦИЯ ЗА МОНТАЖ

All dimensions in millimetres

overlay



Mounting plate height 0



Mounting plate height 3

Door overlay	Cup distance 3	4	5	6	7
21.0					-2
20.0				-2	
19.0			-2		
18.0		-2		0	
17.0			0		
16.5	-2				
16.0		0		2	3
15.5					3.5
15.0	0		2	3	
14.5				3.5	
14.0		2	3		
13.5			3.5		
13.0	2	3			
12.5		3.5			
12.0	3				
11.5	3.5				
	Mounting plate height				

MINIMUM GAP

Door thickness	Cup distance 3	4	5	6	7
26.0	1.0	1.0	1.0	1.2	2.2
24.0	1.0	1.0	1.0	1.0	1.8
22.0	1.0	1.0	1.0	1.0	1.1
20.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0
	Minimum gap				

MINIMUM REVEAL

Door thickness	Cup distance 3	4	5	6	7
26.0	7.2	6.2	5.2	4.2	3.5
24.0	4.8	3.8	2.8	2.3	2.2
22.0	1.9	1.6	1.5	1.4	1.3
20.0	0.9	0.9	0.9	0.8	0.8
18.0	0.4	0.4	0.4	0.5	0.5
16.0	0.3	0.3	0.3	0.3	0.3
	Minimum reveal (F)				

NOTES

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance.

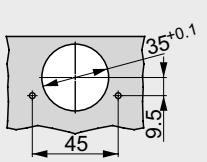
Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

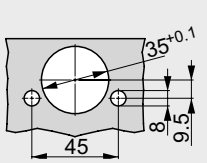
Hinge dimensions and reveal calculation with factory setting.

For door thicknesses of 24 mm and above, a trial fitting is recommended.

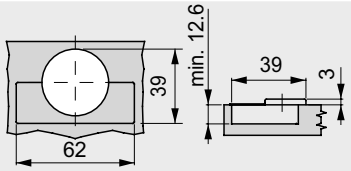
DRILLING PATTERNS 45/9.5

For screw fixing





CUP DIMENSIONS



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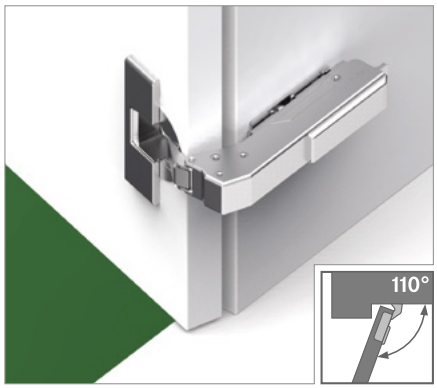
GRASS

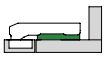
TIOMOS панта клипс 110/+90 градуса (в една равнина)



- Отваряне 110°
- Панта за монтаж в една равнина
- Минимална фуга
- Реглаж в дълбочина
- Минимална фуга
- 3 Д реглаж с подходяща основа

Има ги в 3 варианта
- С вградено плавно (3 степенно регулиране на силата)
- Без плавно затваряне
- Без пружина

ИНФОРМАЦИЯ ЗА ПОРЪЧКА ЗА РАЗПРОБИВАНЕ 45/9.5

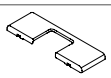
Припокриване			Плавно		Без пружина	Код		
			Със	Без		Клипс Монтаж с винтове	Цена	Impresso without tools
Покрит канѝ, ниско рамо			■	-	-	**0033-F028 138 536 223**	12,829лв	
			-	■	-	**0033-F045 138 474 213**	10,218лв	
			-	■	■		-	-

[1] Материал на чашката: стомана, никел/ материал на тялото: цам, никел

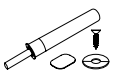
Основа /за повече видове виж накрая/

	Описание	Код	Цена
	Основа за панта Timos клипс, закрепване с винт за дърво ф3.5 x 15 мм	**0033-F058 139 721 228**	0,60 лв

Капачки

	Описание	За застъп	Надпис	Код	Цена
	Капачка за тяло на панта Timos, стомана, никел, надпис GRASS	0/3/9.5/19	Лого **GRASS**	**0033-F072 135 550 247**	0,33 лв
	Капачка за чашка на панта Timos, стомана, никел, без надпис	0/3/9.5/19	-	**0033-F072 1355 03 540**	0,66 лв

Аксесоари

	Описание	Код/цена
	Скоба за намаляване на ъгъла на отваряне на 85 гр.	**0033-F072 135 751 540** 0,90 лв
	Tipmatic Plus кръглъл, за отвор ф10х60 мм	**0033-F069 135 061 513** 11.58 лв

	Designation	Art.-no.
	Countersunk wood screw Ø 3.5 x 15 mm	
	Unclipping protector	

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КСХ-Хаджидимитров ЕООД София, кв.Враждебна, ул. 3-та, 4 тел.: 02/ 943 45 34 www.obkov.com /e-mail: office@obkov.com

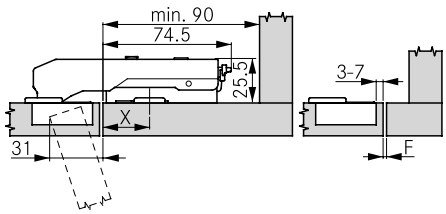
GRASS

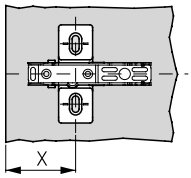
TIOMOS панта клипс 110/+90 градуса (в една равнина)

ИНФОРМАЦИЯ ЗА МОНТАЖ

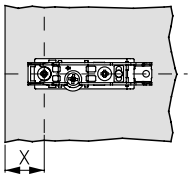
All dimensions in millimetres

Inset





Cross mounting plates with fixing distance 37



Linear mounting plates

Mounting plate height 3

Drilling distance (X)	Cup distance 4	5	6	7
28.0	1	0		
27.0	2	1	0	
26.0	3	2	1	0
	Door reveal			

Drilling distance (X)	Cup distance 4	5	6	7
11.0	1	0		
10.0	2	1	0	
9.0	3	2	1	0
	Door reveal			

MINIMUM REVEAL

Door thickness	Cup distance 3	4	5	6	7
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6
	Minimum reveal (F)				

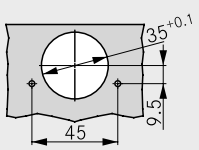
NOTES

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

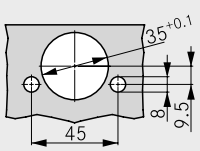
Use standard mounting plate height 3 to ensure that door is flush fitting.

DRILLING PATTERNS 45/9.5

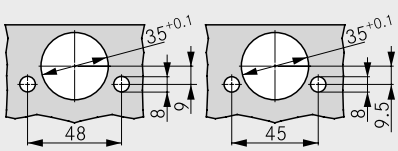
For screw fixing



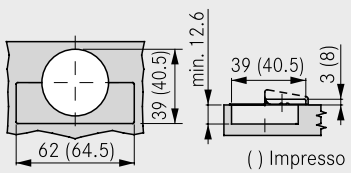
For press fitting



Combination drilling pattern for Impresso



CUP DIMENSIONS



All dimensions in millimetres. Subject to changes

KSH Hadzhidimitrov
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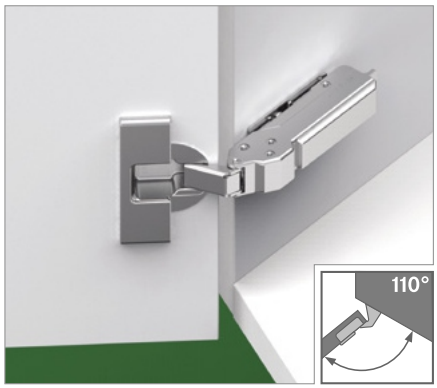
G*GRASS

TIOMOS панта клипс 110/+30 градуса (покрит кант)



- Отваряне 110°
- Панта за монтаж на 30° шкаф
- Минимална фуга
- Реглаж в дълбочина
- Минимална фуга
- 3 Д реглаж с подходяща основа

Има ги в 3 варианта
- С вградено плавно (3 степенно регулиране на силата)
- Без плавно затваряне
- Без пружина

ИНФОРМАЦИЯ ЗА ПОРЪЧКА ЗА РАЗПРОБИВАНЕ 45/9.5

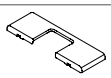
Припокриване			Плавно		Без пружина	Код		
			Със	Без		Клипс Монтаж с винтове	Цена	Impresso without tools
Покрит канѓ, ниско рамо			■	-	-	**0033-F028 138 529 213**	11,65лв	
			-	■	-	**0033-F045 138 467 213**	9,20лв	
			-	■	■			-

[1] Материал на чашката: стомана, никел/ материал на тялото: цам, никел

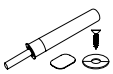
Основа /за повече видове виж накрая/

	Описание	Код	Цена
	Основа за панта Timos клипс, закрепване с винт за дърво ф3.5 x 15 мм	**0033-F058 139 721 228**	0,60 лв

Капачки

	Описание	За застъп	Надпис	Код	Цена
	Капачка за тяло на панта Timos, стомана, никел, надпис GRASS	0/3/9.5/19	Лого **GRASS**	**0033-F072 135 550 247**	0,33 лв
	Капачка за чашка на панта Timos, стомана, никел, без надпис	0/3/9.5/19	-	**0033-F072 1355 03 540**	0,66 лв

Аксесоари

	Описание	Код/цена
	Скоба за намаляване на ъгъла на отваряне на 85 гр.	**0033-F072 135 751 540** 0,90 лв
	Tipmatic Plus кръглъл, за отвор ф10х60 мм	**0033-F069 135 061 513** 11.58 лв

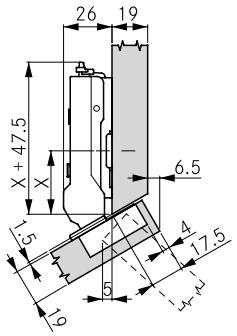
	Designation	Art.-no.
	Countersunk wood screw Ø 3.5 x 15 mm	
	Unclipping protector	

TIOMOS панта клипс 110/+30 градуса (покрит кант)

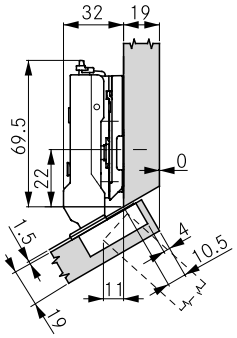
ИНФОРМАЦИЯ ЗА МОНТАЖ

All dimensions in millimetres

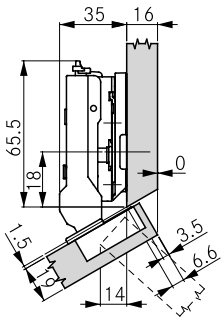
overlay



Mounting plate height 0

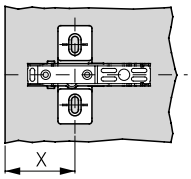


Mounting plate height 6



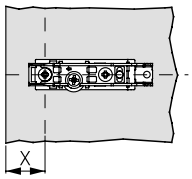
Mounting plate height 9

Door overlay	Cup distance 3	4	5	6	7
20.5					0
19.5				0	
18.5			0		2
17.5		0		2	3
16.5	0				3.5
16.0			2	3	
15.5				3.5	
15.0		2	3		
14.5			3.5		
14.0	2	3			
13.5		3.5			
13.0	3				
12.5	3.5			6	
11.5			6		
10.5		6			
	Mounting plate height				



Cross mounting plates with fixing distance 37

	Mounting plate height 0	2	3	3.5	6
X	34.0	33.0	32.0	32.0	30.5
	Cross mounting plate position (X)				



Linear mounting plates

	Mounting plate height 0	2	3	3.5
X	17.0	16.0	15.0	15.0
	Linear mounting plate position (X)			

MINIMUM GAP

Door thickness	Cup distance 3	4	5	6	7
24.0	1.0	1.0	1.0	1.2	2.1
22.0	1.0	1.0	1.0	1.0	1.5
21.0	1.0	1.0	1.0	1.0	1.2
20.0	1.0	1.0	1.0	1.0	1.0
19.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0
17.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0
	Minimum gap				

MINIMUM REVEAL

Door thickness	Cup distance 3	4	5	6	7
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6
	Minimum reveal (F)				

NOTES

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance.

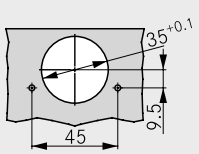
Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

Hinge dimensions and reveal calculation with factory setting.

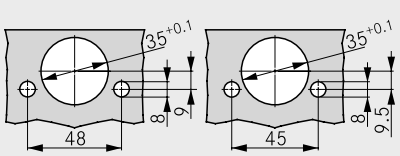
For door thicknesses of 24 mm and above, a trial fitting is recommended.

DRILLING PATTERNS 45/9.5

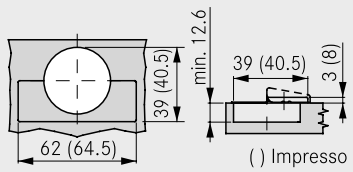
For screw fixing



Combination drilling pattern for Impresso



CUP DIMENSIONS



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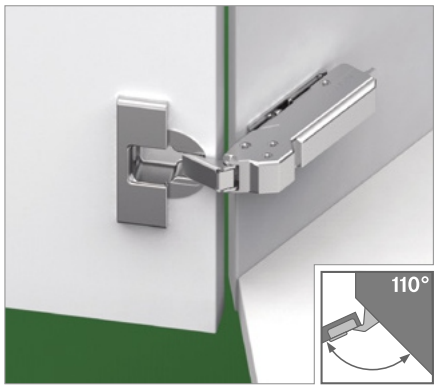
G*GRASS

TIOMOS панта клипс 110/+45 градуса (покрит кант)



- Отваряне 110˚
- Панта за монтаж на 45˚ шкаф
- Минимална фуга
- Реглаж в дълбочина
- Минимална фуга
- 3 Д реглаж с подходяща основа

Има ги в 3 варианта
- С вградено плавно (3 степенно регулиране на силата)
- Без плавно затваряне
- Без пружина

ИНФОРМАЦИЯ ЗА ПОРЪЧКА ЗА РАЗПРОБИВАНЕ 45/9.5

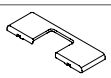
Припокриване			Плавно		Без пружина	Код		
			Със	Без		Клипс Монтаж с винтове	Цена	Impresso without tools
Покрит канѓ, ниско рамо			■	-	-	**0033-F028 138 533 223**	11,60лв	
			-	■	-	**0033-F045 138 471 213**	9,20лв	
			-	■	■			-

[1] Материал на чашката: стомана, никел/ материал на тялото: цам, никел

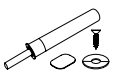
Основа /за повече видове виж накрая/

	Описание	Код	Цена
	Основа за панта Timos клипс, закрепване с винт за дърво ф3.5 x 15 мм	**0033-F058 139 721 228**	0,60 лв

Капачки

	Описание	За застъп	Надпис	Код	Цена
	Капачка за тяло на панта Timos, стомана, никел, надпис GRASS	0/3/9.5/19	Лого **GRASS**	**0033-F072 135 550 247**	0,33 лв
	Капачка за чашка на панта Timos, стомана, никел, без надпис	0/3/9.5/19	-	**0033-F072 1355 03 540**	0,66 лв

Аксесоари

	Описание	Код/цена
	Скоба за намаляване на ъгъла на отваряне на 85 гр.	**0033-F072 135 751 540** 0,90 лв
	Tipmatic Plus кръглъл, за отвор ф10х60 мм	**0033-F069 135 061 513** 11.58 лв

	Designation	Art.-no.
	Countersunk wood screw Ø 3.5 x 15 mm	
	Unclipping protector	

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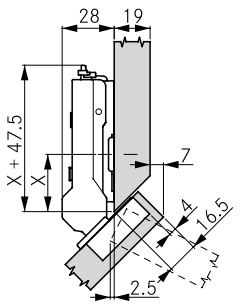
G*GRASS

TIOMOS панта клипс 110/+45 градуса (покрит кант)

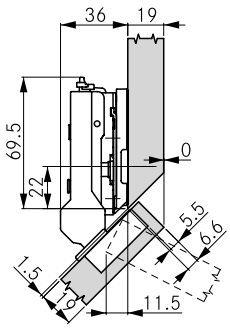
ИНФОРМАЦИЯ ЗА МОНТАЖ

All dimensions in millimetres

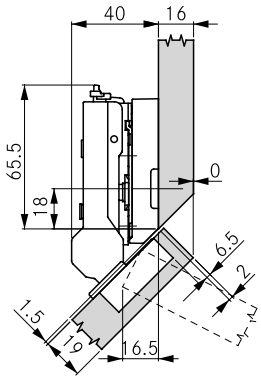
overlay



Mounting plate height 0

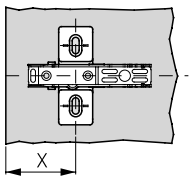


Mounting plate height 8



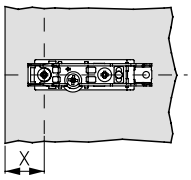
Mounting plate height 12

Door overlay	Cup distance 3	4	5	6	7
19.5					0
19.0					
18.5				0	
18.0					
17.5			0		
17.0					
16.5		0			2
16.0					
15.5	0			2	
15.0					3
14.5			2		3.5
14.0				3	
13.5		2		3.5	
13.0			3		
12.5	2		3.5		
12.0		3			
11.0	3				6
10.0				6	
	Mounting plate height				



Cross mounting plates with fixing distance 37

	Mounting plate height 0	2	3	3.5	6
X	30.5	28.5	27.5	27.0	24.5
	Cross mounting plate position (X)				



Linear mounting plates

	Mounting plate height 0	2	3	3.5
X	13.5	11.5	10.5	10.0
	Linear mounting plate position (X)			

MINIMUM GAP

Door thickness	Cup distance 3	4	5	6	7
24.0	1.0	1.0	1.0	1.2	2.1
22.0	1.0	1.0	1.0	1.0	1.5
21.0	1.0	1.0	1.0	1.0	1.2
20.0	1.0	1.0	1.0	1.0	1.0
19.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0
17.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0
	Minimum gap				

MINIMUM REVEAL

Door thickness	Cup distance 3	4	5	6	7
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6
	Minimum reveal (F)				

NOTES

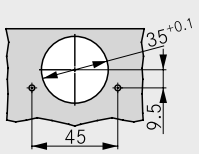
The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance.

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

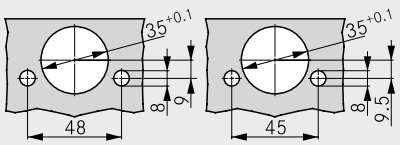
For door thicknesses of 24 mm and above, a trial fitting is recommended.

DRILLING PATTERNS 45/9.5

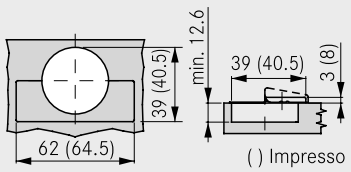
For screw fixing



Combination drilling pattern for Impresso



CUP DIMENSIONS



All dimensions in millimetres. Subject to changes

KSH Hadzhidimitrov
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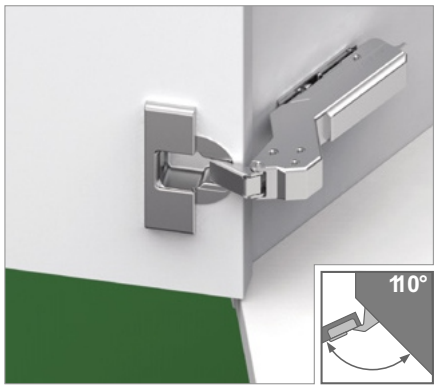
G*GRASS

TIOMOS панта клипс 110/+45 градуса (открит кант)



- Отваряне 110˚
- Панта за монтаж на 45˚ шкаф
- Минимална фуга
- Реглаж в дълбочина
- Минимална фуга
- 3 Д реглаж с подходяща основа

Има ги в 3 варианта
- С вградено плавно (3 степенно регулиране на силата)
- Без плавно затваряне
- Без пружина

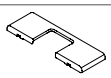
ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

Door overlay			Damper		without spring	Код		
			with	without		Клипс Монтаж с винтове	Цена	Impresso without tools
Inset[1]			■	-	-	**0033-F028 138 534 223**	11,60лв	
			-		-			
			-					-

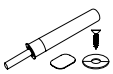
Основа /за повече видове виж накрая/

	Описание	Код	Цена
	Основа за панта Timos клипс, закрепване с винт за дърво ф3.5 x 15 мм	**0033-F058 139 721 228**	0,60 лв

Капачки

	Описание	За застъп	Надпис	Код	Цена
	Капачка за тяло на панта Timos, стомана, никел, надпис GRASS	0/3/9.5/19	Лого **GRASS**	**0033-F072 135 550 247**	0,33 лв
	Капачка за чашка на панта Timos, стомана, никел, без надпис	0/3/9.5/19	-	**0033-F072 1355 03 540**	0,66 лв

Аксесоари

	Описание	Код/цена
	Скоба за намаляване на ъгъла на отваряне на 85 гр.	**0033-F072 135 751 540** 0,90 лв
	Tipmatic Plus кръглъл, за отвор ф10х60 мм	**0033-F069 135 061 513** 11.58 лв

	Designation	Art.-no.
	Countersunk wood screw Ø 3.5 x 15 mm	
	Unclipping protector	

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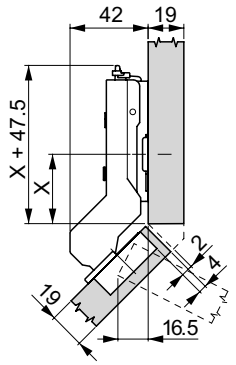
GRASS

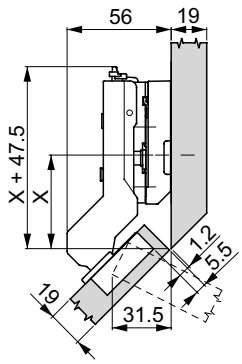
TIOMOS панта клипс 110/+45 градуса (откритт кант)

ИНФОРМАЦИЯ ЗА МОНТАЖ

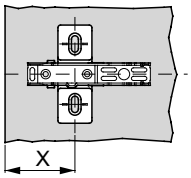
Inset



Mounting plate height 0



Mounting plate height 14



Cross mounting plates with fixing distance 37

Door reveal	Cup distance 3	4	5	6	7
1			0		
2		0			2
3	0			2	3
4			2	3	3.5
5		2	3	3.5	
6	2	3	3.5		
7	3	3.5			
8	3.5				
	Mounting plate height				

	Mounting plate height 0	2	3	3.5
	37	35	34	33.5
	Cross mounting plate position (X)			

Door overlay	Cup distance 3	4	5	6	7
22		15.5			
21	14		15		
20			14	15	15.5
19	12			15	15
18		12			14
17			12		
16				12	
15	9				12
	Mounting plate height				

Door overlay	Cup distance 3	4	5	6	7
22		53.0			
21	53.0		51.5		
20			51.0	50.5	50.0
19	52.0			50.0	49.0
18		50.5			48.5
17			49.0		
16				47.5	
15	49.0				46.0
	Cross mounting plate position (X)				

MINIMUM REVEAL

Door thickness	Cup distance 3	4	5	6	7
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6
	Minimum reveal (F)				

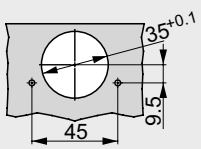
NOTES

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

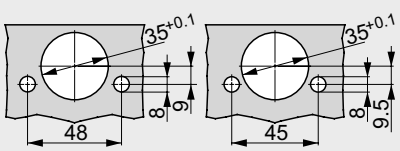
For door thicknesses of 24 mm and above, a trial fitting is recommended.

DRILLING PATTERNS 45/9.5

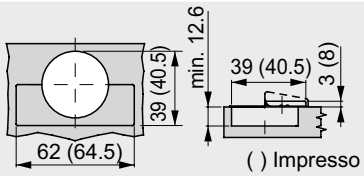
For screw fixing



Combination drilling pattern for Impresso



CUP DIMENSIONS



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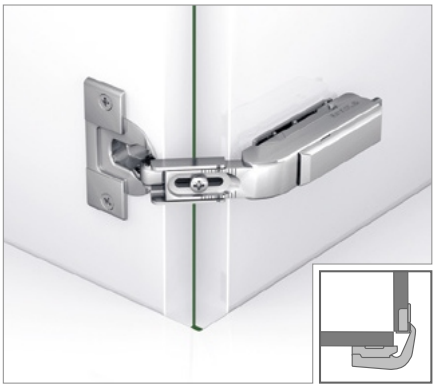
G*GRASS

TIOMOS панта PCC ъглова (за монтаж на ъгъл)



- For connecting two corner cabinet doors
- For door thicknesses up to max. 24 mm (factory setting for 19 mm door thickness for a cup distance of 3.5 mm)
- 35 mm full cup drill hole
- Shallow cup depth of 11.8 mm
- 3-dimensional adjustment with appropriate mounting plate
- Without integrated damper

Available in 1 version:
- Without integrated damper

F045138**517**

ИНФОРМАЦИЯ ЗА ПОРЪЧКА ЗА РАЗПРОБИВАНЕ 45/9.5

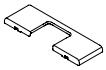
Door overlay			Плавно		Без пружина	Код		
			Със	Без		Клипс Монтаж с винтове	Цена	
[1]			-	■	-	**0033-F045 138 517 228**	12,05лв	

[1] Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

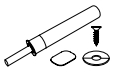
Основа /за повече видове виж накрая/

	Описание	Код	Цена
	Основа за панта Timos клипс, закрепване с винт за дърво ф3.5 x 15 мм	**0033-F058 139 721 228**	0,60 лв

Капачки

	Описание	За застъп	Надпис	Код	Цена
	Капачка за тяло на панта Timos, стомана, никел, надпис GRASS	0/3/9.5/19	Лого **GRASS**	**0033-F072 135 550 247**	0,33 лв
	Капачка за чашка на панта Timos, стомана, никел, без надпис	0/3/9.5/19	-	**0033-F072 1355 03 540**	0,66 лв

Аксесоари

	Описание	Код/цена
	Скоба за намаляване на ъгъла на отваряне на 85 гр.	**0033-F072 135 751 540** 0,90 лв
	Tipmatic Plus кръглъл, за отвор ф10х60 мм	**0033-F069 135 061 513** 11,58 лв

	Designation	Art.-no.
	Countersunk wood screw Ø 3.5 x 15 mm	
	Unclipping protector	

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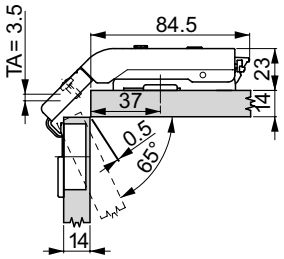
GRASS

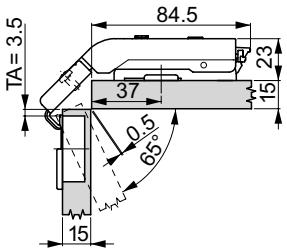
TIOMOS панта PCC ъглова (за монтаж на ъгъл)

ИНФОРМАЦИЯ ЗА МОНТАЖ

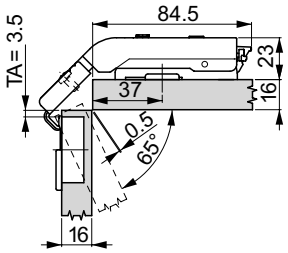
All dimensions in millimetres



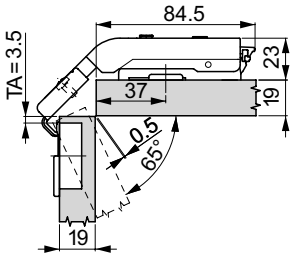
Door thickness (TS) 14 mm
Cup distance (TA) 3.5 mm
Mounting plate height 0



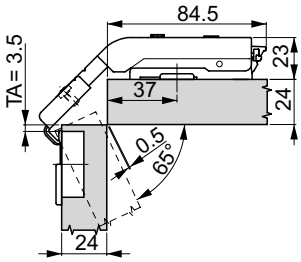
Door thickness (TS) 15 mm
Cup distance (TA) 3.5 mm
Mounting plate height 0



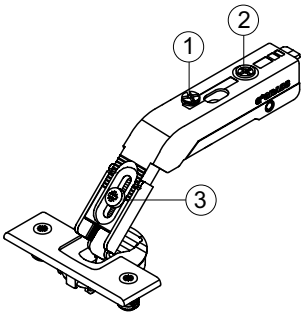
Door thickness (TS) 16 mm
Cup distance (TA) 3.5 mm
Mounting plate height 0



Door thickness (TS) 19 mm (factory setting)
Cup distance (TA) 3.5 mm
Mounting plate height 0



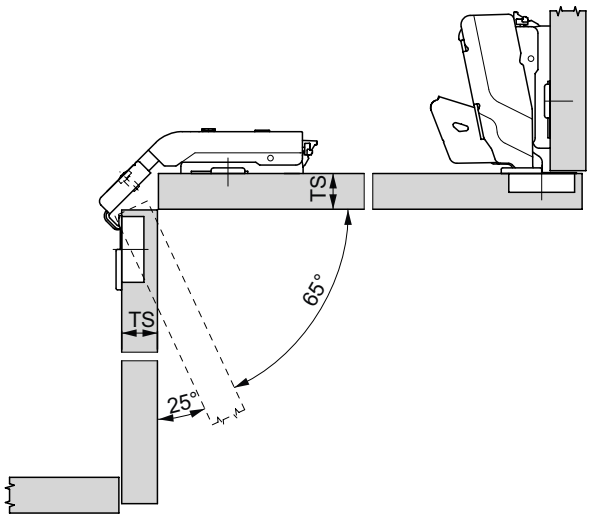
Door thickness (TS) 24 mm
Cup distance (TA) 3.5 mm
Mounting plate height 0



Adjustment in the hinge arm:

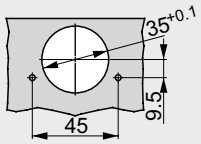
1. Stepless side adjustment ± 2 mm
2. Stepless depth adjustment via worm gear + 3/-2 mm
3. Door thickness 14 - 24 mm (factory setting 19 mm)

Height adjustment via mounting plate

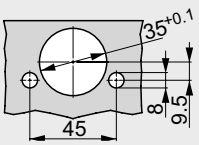


DRILLING PATTERNS 45/9.5

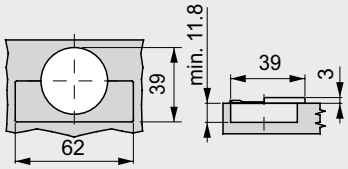
For screw fixing



For press fitting



CUP DIMENSIONS



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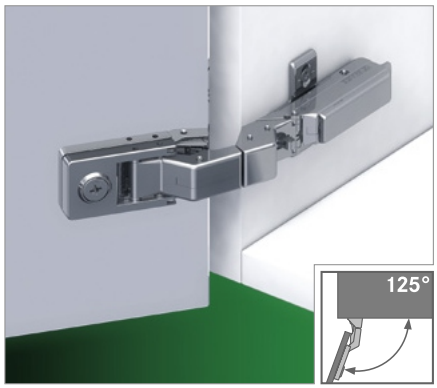
TIOMOS MIRRO за стъкло клипс 125 градуса

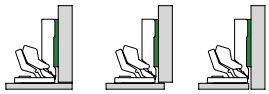


- Отваряне 125°
- Бързо и лесно залепване на адаптера към стъклото
- Свързване на адаптера с пантата с винт
- Бърз монтаж без разпробиване на стъклото
- Припокриване до 19 мм
- 3 Д реглаж с подходяща основа

Има ги в 3 варианта

- С вградено плавно (3 степенно регулиране на силата)
- Без плавно затваряне
- Без пружина

ИНФОРМАЦИЯ ЗА ПОРЪЧКА

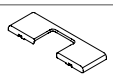
Припокриване	Застъп	Плавно		Без пружина	Код		
		Със	Без		Клипс Монтаж с винтове	Цена	
	14	■	-	-	**0033-F029 140 325 217**	21,20 лв	
		-	■	-	**0033-F047 140 326 217**	18,20 лв	
		-	■	■	*0033-F049 140 327 217*	18,60 лв	

Материал на чашката: ЦАМ, никел/ материал на тялото: ЦАМ, никел

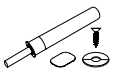
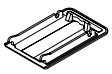
Основа /за повече видове виж накрая/

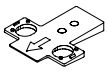
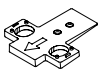
	Описание	Код	Цена
	Основа за панта Timos клипс, закрепване с винт за дърво ф3.5 x 15 мм	**0033-F058 139 721 228**	0,60 лв

Капачки

	Описание	За застъп	Надпис	Код	Цена
	Капачка за тяло на панта Timos, стомана, никел, надпис GRASS	0/3/9.5/19	Лого **GRASS**	**0033-F072 135 550 247**	0,33 лв
	Капачка за чашка на панта Timos, стомана, никел, без надпис	0/3/9.5/19	-	**0033-F072 1355 03 540**	0,66 лв

Аксесоари

	Описание	Код/цена
	Tipmatic Plus кръглъл, за отвор ф10х60 мм	**0033-F069 135 061 513** 11.58 лв
	Скоба за намаляване на ъгъла на отваряне на 85 гр. за Tiomos Mirro, M9 и M0	**0033-F072 135 871 517** 0,97 лв
	ЦАМ адаптор за Tiomos Mirro за огледало	**0033-F072 135 868 217** 4,50 лв

	Описание	Код/цена
	Подложка +5° за основа за панта Tiomos	**0033-F072 135 757 217** 1.48 лв
	Подложка -5° за основа за панта Tiomos	**0033-F072 135 758 217** 1.49 лв
	Адаптор за стъкло за панти Nexis и Tiomos	**0033-F069 073 731 217** 1.98 лв

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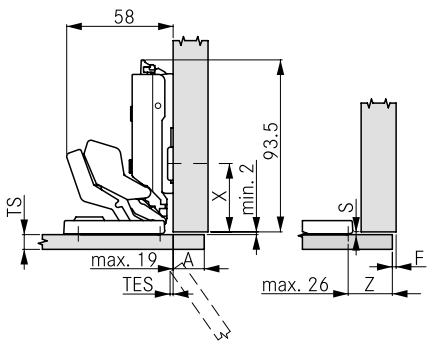
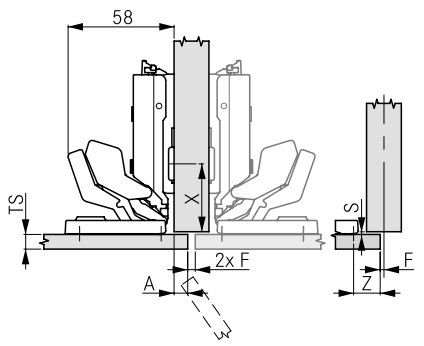
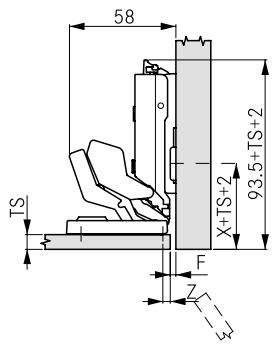
TIOMOS MIRRO за стъкло клипс 125 градуса

ИНФОРМАЦИЯ ЗА МОНТАЖ

All dimensions in millimetres

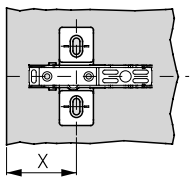
Overlay	Half overlay	Inset
		
Mounting plate height	Mounting plate height	Mounting plate height 0

MINIMUM GAP/MINIMUM REVEAL

values for 0 mounting plate height

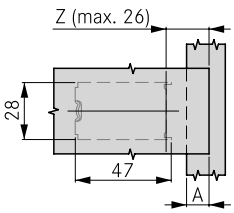
Gluing dimension (Z)	4		5		13		15		17		19		21		22		24		26	
Door protrusion (TES)	0		0		0		0		0		0		0		0.5		1.5		3	
Door overlay (A)	-3		-2		6		8		10		12		14		15		17		19	
min. reveal (F)/gap (S)	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S
Door thickness 3-8 (TS)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

ECO CROSS-MOUNTING PLATE



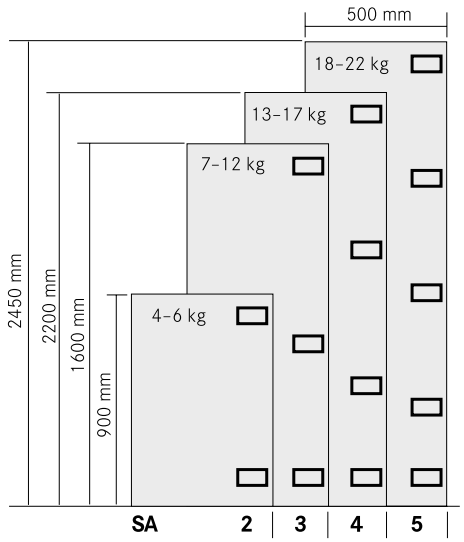
Hole spacing	Mounting plate height 0				
28	37				
37	46				
	Mounting plate position (X)				

STAINLESS STEEL ADAPTER



	Mounting plate height 0				
Z	A+7				
A	max. 19				
	Gluing dimension (Z)				

NUMBER OF HINGES



NOTES

Insetting of the door is achieved via a modified mounting plate attachment spacing (X) and a small gluing gap (Z).

ⓘ **Attention:** With mirror or glass doors, all reveals must be at least 1.5 mm (otherwise there is a risk of breakage).

The inner door edge must not touch the rack upon opening.

ⓘ **Installation advice:** Please contact your glass or door supplier In respect of glue selection and how to use the glue for fastening of the hinge retainer on mirror or glass doors.

ⓘ **Liability claims:** GRASS cannot accept any liability either for the glue used or the gluing process nor can it accept any responsibility for claims arising therefrom; we kindly ask for your understanding in this respect.

ⓘ **Attention:** Mirro hinges must not be used with cam mounting plates.

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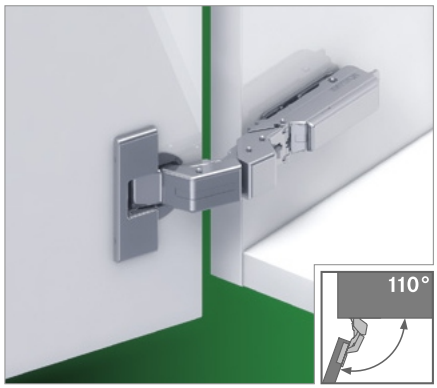
GRASS

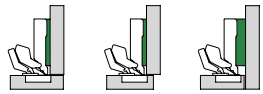
TIOMOS M9 клипс 110 градуса (за дебелини от 12 мм)



- За дебелина на вратата до 28 мм
- 35 мм отвор за пантата във вратата
- Плитко вкопаване от 9 мм
- Припокриване до 25 мм
- 3 Д реглаж с подходяща основа

Има ги в 3 варианта
- С вградено плавно (3 степенно регулиране на силата)
- Без плавно затваряне
- Без пружина

ИНФОРМАЦИЯ ЗА ПОРЪЧКА ЗА РАЗПРОБИВАНЕ 45/9.5

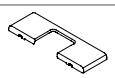
Припокриване	Застъп	Плавно		Без пружина	Код		
		Със	Без		Клипс Монтаж с винтове	Цена	
	14	■	-	-	**0033-F029 140 334 217**	14.90лв	
		-	■	-	**0033-F047 140 335 217**	12.42лв	
		-	■	■	*0033-F049 140 340 217*	12.84лв	

Материал на чашката: ЦАМ, никел/ материал на тялото: ЦАМ, никел

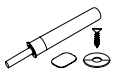
Основа /за повече видове виж накрая/

	Описание	Код	Цена
	Основа за панта Timos клипс, закрепване с винт за дърво ф3.5 x 15 мм	**0033-F058 139 721 228**	0,60 лв

Капачки

	Описание	За застъп	Надпис	Код	Цена
	Капачка за тяло на панта Timos, стомана, никел, надпис GRASS	0/3/9.5/19	Лого **GRASS**	**0033-F072 135 550 247**	0,33 лв
	Капачка за чашка на панта Timos, стомана, никел, без надпис	0/3/9.5/19	-	**0033-F072 1355 03 540**	0,66 лв

Аксесоари

	Описание	Код/цена
	Tipmatic Plus кръглъл, за отвор ф10х60 мм	**0033-F069 135 061 513** 11.58 лв
	Скоба за намаляване на ъгъла на отваряне на 85 гр. за Tiomos Mirro M9 и Mo	**0033-F072 135 871 517** 0,97 лв

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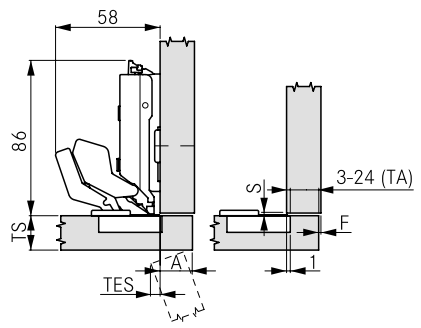
G*GRASS

TIOMOS M9 клипс 110 градуса (за дебелини от 12 мм)

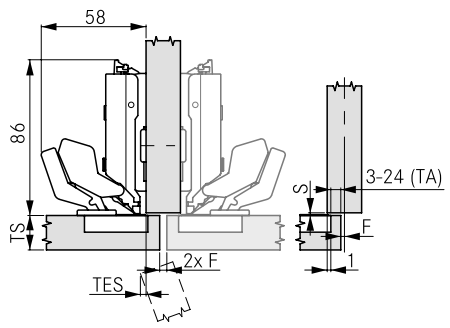
ИНФОРМАЦИЯ ЗА МОНТАЖ

All dimensions in millimetres

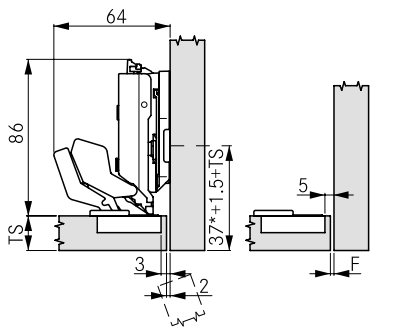
Overlay	Half overlay	Inset



Mounting plate height



Mounting plate height



Mounting plate height

* Dimension for mounting plate for 37 mm hole spacing

MINIMUM GAP/MINIMUM REVEAL

values for 0 mounting plate height

Door thickness (TS)																							
Cup distance (TA)	3		4		5		6		7		8		9		10		11		12		13	
Door protrusion (TES)	0.8		1.1		1.5		1.8		2.2		2.5		2.9		3.2		3.5		3.9		4.2	
Door overlay (A)	4		5		6		7		8		9		10		11		12		13		14	
min. reveal (F)/gap (S)	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S
12-20	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5
22	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1.5	1.5	1.7	1.5	4	1.5
24	1	1.5	1.2	1.5	1.3	1.5	1.5	1.5	1.7	1.5	2	1.5	2.4	1.3	3.3	1.5	8.3	1.5	7.7	1.5	6.9	1.5
26	2.2	1.5	2.4	1.5	2.7	1.5	3.1	1.5	3.6	1.5	4.7[1]	1.5	12[1]	1.5	11.8	1.5	10.9	1.5	9.9	1.5	8.9	1.5
28	3.9	1.5	4.3	1.5	5.1[1]	1.5	6.3[1]	1.5	16[1]	1.5	16[1]	1.5	15[1]	1.5	14[1]	1.5	13[1]	1.5	12[1]	1.5	11[1]	1.5

Door thickness (TS)																							
Cup distance (TA)	14		15		16		17		18		19		20		21		22		23		24	
Door protrusion (TES)	4.6		4.9		5.3		5.6		5.9		6.3		6.6		7		7.3		7.6		8	
Door overlay (A)	15		16		17		18		19		20		21		22		23		24		25	
min. reveal (F)/gap (S)	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S
12-20	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	2	1	2	1	2
22	4	1.5	3.5	1.5	3	1.5	2.2	1.5	1.7	1.5	1.3	1.5	1	1.5	1	1.5	1	2	1	2	1	2
24	6	1.5	5.2	1.5	4.5	1.5	4	1.5	3.3	1.5	3	1.5	2.5	1.5	2.1	1.5	1.9	2	1.6	2	1.5	2
26	8	1.5	7.2	1.5	6.4	1.5	5.8	1.5	5.1	1.5	4.6	1.5	4.1	1.5	3.7	1.5	3.3	2	3	2	2.6	2
28	10[1]	1.5	9.2	1.5	8.4	1.5	7.6	1.5	6.9	1.5	6.4	1.5	5.8	1.5	5.3	1.5	4.9	2	4.5	2	4.2	2

[1] Value achievable by use of a 85° opening angle reduction clip

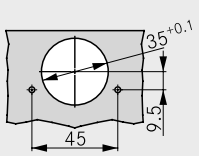
NOTE

Minimum reveal for doors with chamfered edges (R = 1 mm) set at factory setting.

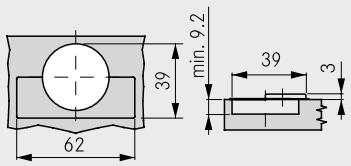
Trial fitting is recommended for all door thicknesses.

DRILLING TEMPLATE 45/9.5

For screw fixing



CUP DIMENSIONS



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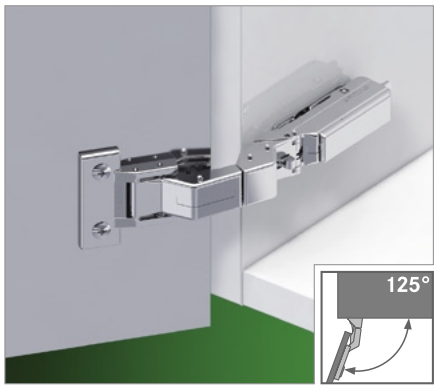
G*GRASS

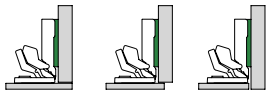
TIOMOS M0 клипс 125 градуса (за дебелини от 6 до 10 мм)



- За дебелина на вратата от 6 до 10 мм
- Не е нужен отвор във вратата
- 3 Д реглаж
- Припокриване до 25 мм
- Съвместима с основите за Tiomos
- Отваряне на 125˚

Има ги в 3 варианта
- С вградено плавно (3 степенно регулиране на силата)
- Без плавно затваряне
- Без пружина

ИНФОРМАЦИЯ ЗА ПОРЪЧКА

Припокриване	Застъп	Плавно		Без пружина	Код		
		Със	Без		Клипс Монтаж с винтове	Цена	
	-	■	-	-	**0033-F029 140 331 217**	18,70лв	
		-	■	-	**0033-F047 140 332 217**	13,36лв	
		-	■	■	*0033-F049 140 333 217*	16.10лв	

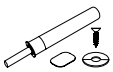
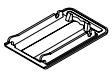
Основа /за повече видове виж накрая/

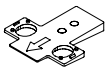
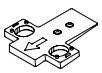
	Описание	Код	Цена
	Основа за панта Timos клипс, закрепване с винт за дърво ф3.5 x 15 мм	**0033-F058 139 721 228**	0,60 лв

Капачки

	Описание	За застъп	Надпис	Код	Цена
	Капачка за тяло на панта Timos, стомана, никел, надпис GRASS	0/3/9.5/19	Лого **GRASS**	**0033-F072 135 550 247**	0,33 лв

Аксесоари

	Описание	Код/цена
	Tipmatic Plus кръглъл, за отвор ф10х60 мм	**0033-F069 135 061 513** 11.58 лв
	Скоба за намаляване на ъгъла на отваряне на 85 гр. за Tiomos Mirro, M9 и M0	**0033-F072 135 871 517** 0,97 лв
	ЦАМ адаптор за Tiomos Mirro за огледало	**0033-F072 135 868 217** 3.70 лв

	Описание	Код/цена
	Подложка +5˚ за основа за панта Tiomos	**0033-F072 135 757 217** 1.48 лв
	Подложка -5˚ за основа за панта Tiomos	**0033-F072 135 758 217** 1.49 лв
	Адаптор за стъкло за панти Nexis и Tiomos	**0033-F069 073 731 217** 1.98 лв

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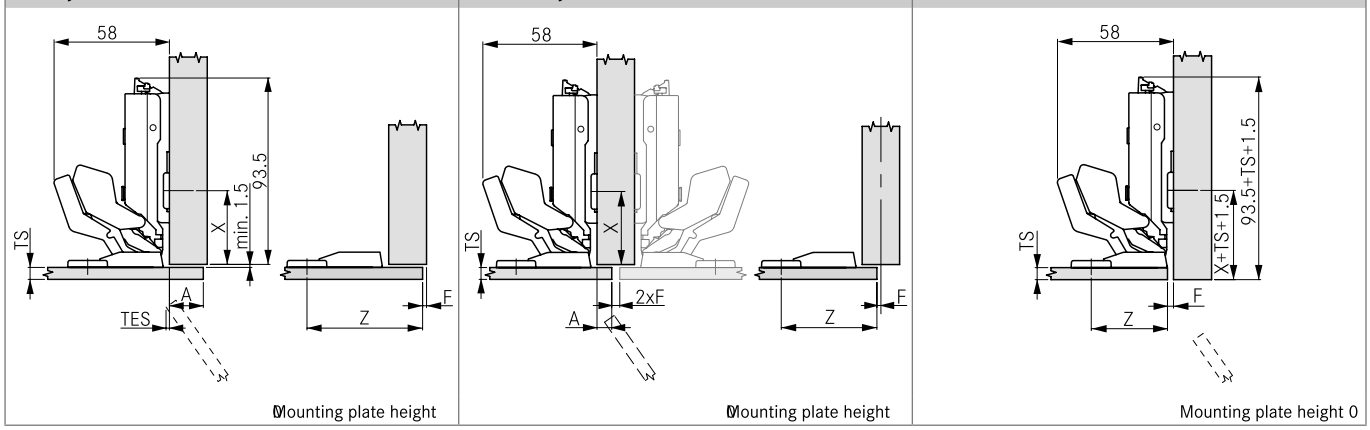
GRASS

TIOMOS M0 клипс 125 градуса (за дебелини от 6 до 10 мм)

ИНФОРМАЦИЯ ЗА МОНТАЖ

All dimensions in millimetres

Overlay	Half overlay	Inset



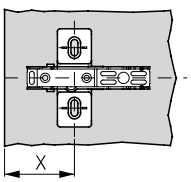
MINIMUM GAP/MINIMUM REVEAL

Values with a mounting plate height 0

Screwing dimension (Z)	38		39		47		49		51		53		55		56		58		60		61		63		64		66	
Door protrusion (TES)	0		0		0		0		0		0		0		0.5		1.5		3		3.4		0		0		0	
Door overlay (A)	-3		-2		6		8		10		12		14		15		17		19		20		22[1]		23[1]		25[1]	
Min. reveal (F)/gap (S)	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S
Door thickness 6-10 (TS)	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	2.5	2	3	2	4

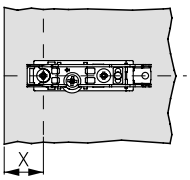
[1] Door thickness A = 22 - 25 only with opening angle reduction clip.

CROSS MOUNTING PLATE



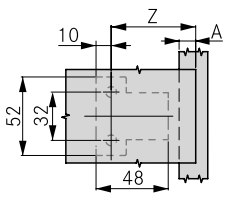
Hole spacing	Mounting plate height 0					
28	37					
37	46					
	Mounting plate position (X)					

LINEAR MOUNTING PLATE



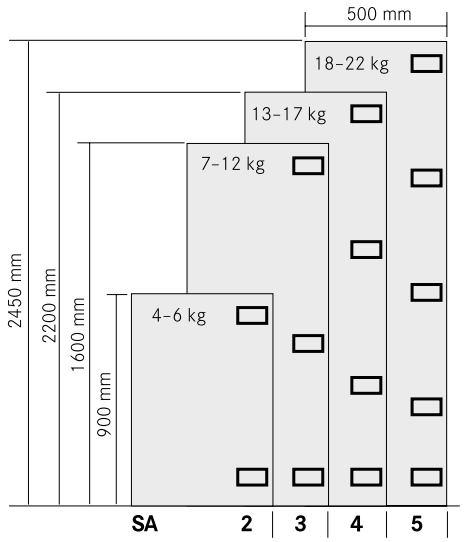
	Mounting plate height 0					
X	29					
	Mounting plate position (X)					

SCREWING POSITION



	Mounting plate height 0					
Z	A+41					
A	25 max.					
	Screwing dimension (Z)					

NUMBER OF HINGES



NOTES

An inset application is achieved with the mounting plate (X) and a low housing screwing distance (Z).

ⓘ **Installation advice**
Countersunk screw M4 x 8 mm:
1. Drill a Ø 3.3 mm hole
2. Cut a Ø 4 mm thread
3. Position the hinge and secure with the screws

ⓘ **Installation advice**
Countersunk screw M4 x 8 mm with sleeve M4 x 5.5 mm:
1. Drill a Ø 5 mm hole
2. Drilling depth: 6mm
3. Slightly countersink the edge of the hole
4. Insert the sleeve
5. Knock in the sleeve with a hammer
6. Position the hinge and secure with the screws

ⓘ **Installation advice**
Euro cheesehead screw Ø 6.3 x 10.5 mm:
1. Drill a Ø 5 mm hole
2. Position the hinge and secure with the screws

ⓘ **Installation advice:** Depending on the type and thickness of the base material the pull-out resistances can vary with the same fastening method. For information regarding the selection and processing of the base material please contact the base material supplier.

ⓘ **Liability claims:** Please note that GRASS cannot accept any liability for damage resulting from unsuitable fastening materials or methods.

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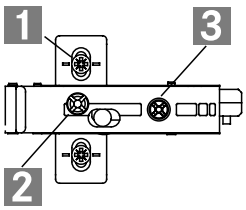
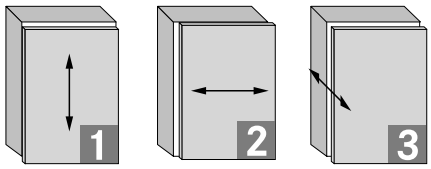
G*GRASS

TIOMOS Основи клипс



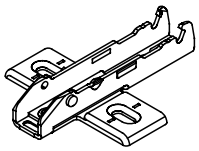
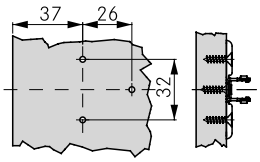


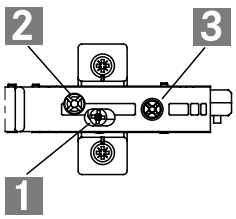
(HV) Height adjustment +/-2.5 mm | (SV) Side adjustment +/-2 mm | (TV) Depth adjustment +3/-2 mm

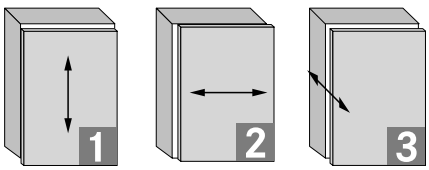
All adjustments can be carried out independently of each other.

ИНФОРМАЦИЯ ЗА ПОРЪЧКА

Основа с 1Д реглаж, монтаж с 4 винта 3.5x15 мм

For screw fixing		37/32	Height	Art.-no.
• Steel, nickel-plated • Fixing with wood screws Ø 3.5 x 15 mm • Height adjustment (HV) via slot			-2	**0033-F058 139 720 228** 1,01лв
			0	**0033-F058 139 721 228** 0,60лв
			2	**0033-F058 139 722 228** 0,84лв
			3	**0033-F058 139 723 228** 0,85лв
			3.5	**0033-F058 139 724 228** 0,826лв



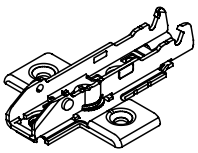
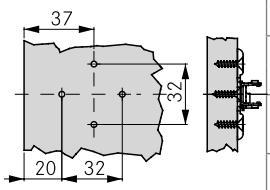


(HV) Height adjustment +/-2 mm | (SV) Side adjustment +/-2 mm | (TV) Depth adjustment +3/-2 mm

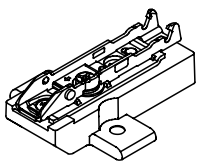
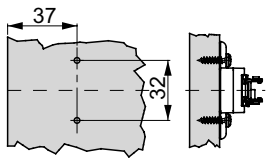
All adjustments can be carried out independently of each other.

ИНФОРМАЦИЯ ЗА ПОРЪЧКА

Основа с 1Д реглаж с пластина, монтаж с 4 винта 3.5x15 мм

For screw fixing		37/32	Height	Colour	Art.-no.
• Steel, nickel-plated / night • Fixing with wood screws Ø 3.5 x 15 mm • With convenient height adjustment (HV) via worm gear			0	nickel	**0033-F058 139 746 228** 1,67лв
			2	nickel	**0033-F058 139 747 217** 1,88лв
			3	nickel	**0033-F058 139 748 217** 1,67лв
			3.5	nickel	**0033-F058 139 749 217** 1,67лв

Основа с 1Д реглаж с пластина, монтаж с 2 винта 3.5x15 мм

For screw fixing		37/32	Height	Art.-no.
• Zamak/steel, nickel-plated • Fixing with wood screws Ø 3.5 x 15 mm • With convenient height adjustment (HV) via worm gear			9.5	
			12	
			14	
			15	
			15.5	
			19	**0033-F058 139 894 217** 5,20лв

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КСХ-Хаджидимитров ЕООД София, кв.Враждебна, ул. 3-та, 4 тел.: 02/ 943 45 34 www.obkov.com /e-mail: office@obkov.com

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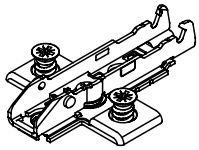
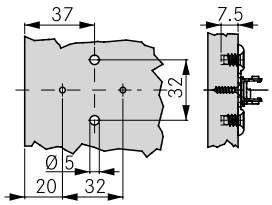
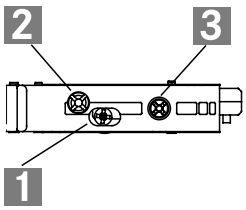
TIOMOS Основи клипс

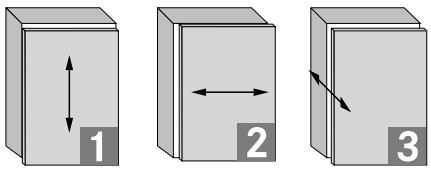
Основа с 1Д реглаж, монтаж с 2 евровинта 6.3x10 мм и 2 винта 3.5x15 мм

With pre-assembled Euro screws (10 mm)	37/32	Height	Art.-no.
• Steel, nickel-plated • Fixing with pre-assembled Euro screws Ø 6.3 x 10 mm • With convenient height adjustment (HV) via worm gear • For twin application		0	**0033-F058 139 863 228** 2,28лв
		2	
		3	
		3.5	









(HV) Height adjustment +/-2 mm

(SV) Side adjustment +/-2 mm

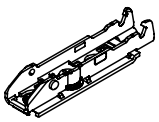
(TV) Depth adjustment +3/-2 mm

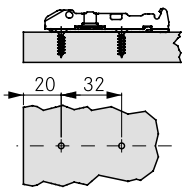
All adjustments can be carried out independently of each other.

ИНФОРМАЦИЯ ЗА ПОРЪЧКА

Основа скрита с 1Д реглаж с пластина, монтаж с 2 винта 3.5x15 мм или 2 евровинта 6.3x13.5

For screw fixing	20/32	Height	Colour	Art.-no.
• Steel, nickel-plated / night • Fixing with wood screws Ø 3.5 x 15 mm or with Euro screws Ø 6.3 x 13.5 mm • With convenient height adjustment (HV) via worm gear		0	nickel	**0033-F059 139 701 228** 1,54лв
		2	nickel	**0033-F059 139 702 217** 1,620лв
		3	nickel	**0033-F059 139 703 228** 1,62лв
		3.5	nickel	**0033-F059 139 704 228** 1,92лв

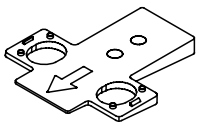


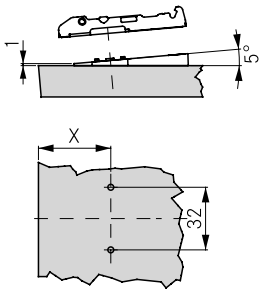


ИНФОРМАЦИЯ ЗА ПОРЪЧКА

+5 градуса подложна планка

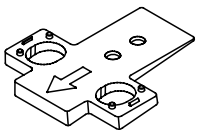
For screw fixing	37/32	Art.-no.
• Zamak, nickel-plated • For placing under cross mounting plates • Up to triple stack (we recommend a trial fitting)		**0033-F072 135 757 217** 1,48лв

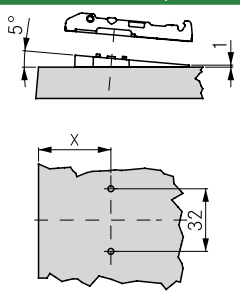




-5 градуса подложна планка

For screw fixing	37/32	Art.-no.
• Zamak, nickel-plated • For placing under cross mounting plates • Up to triple stack (we recommend a trial fitting)		**0033-F072 135 758 217** 1,49лв





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КСХ-Хаджидимитров ЕООД София, кв.Враждебна, ул. 3-та, 4 тел.: 02/ 943 45 34 www.obkov.com /e-mail: office@obkov.com

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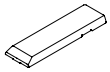
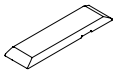
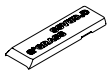
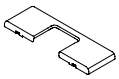
TIOMOS капачки

	Designation	Cranking		Art.-no.
	Hinge arm cover cap, steel, nickel-plated, not imprinted	0/3/9.5/19	On request	
	Hinge arm cover cap, steel, night, not imprinted			
	Hinge arm cover cap, steel, long, nickel-plated, not imprinted	0/3	On request	
	Hinge arm cover cap, left, steel, nickel-plated, GRASS imprint	0/3/9.5/19	GRASS logo	**0033-F072 135 550 247** 0,33лв
	Hinge arm cover cap, right, steel, nickel-plated, GRASS imprint			**0033-F072 135 551 247** 0,33лв
	Hinge arm cover cap, left/right, steel, nickel-plated, GRASS imprint	0/3/9.5/19	GRASS logo (mirrored)	
	Premium hinge arm cover cap with integrated clip protection, plastic, black, not imprinted	0/3/9.5/19	On request	
	Hinge cup cover cap, steel, nickel-plated, not imprinted	–	On request	**0033-F072 135 503 540** 0,66лв
	Hinge cup cover cap, steel, night, not imprinted			

TIOMOS шаблон

- Лесен за ползване
- Разстояние до чашката 3 – 5 mm
- Посравяне в отвора на чашката
- За склрити основи
- За нормални основи

	Код/цена
	0033-F146 135 865 202 7,42лв

TIOMOS инструмент разпробиване

Използва се за пробиване за винтове Ø 3.5 mm.

	Код/цена
	003-F146 035 692 299 123,50лв

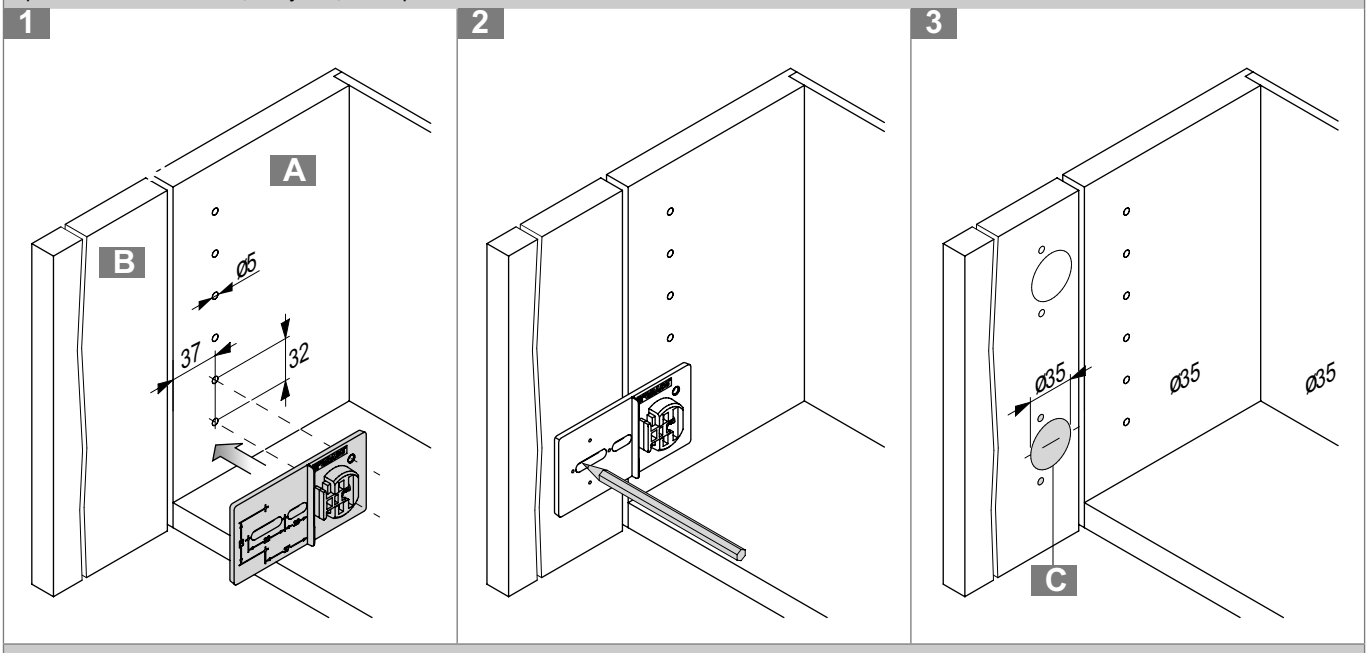
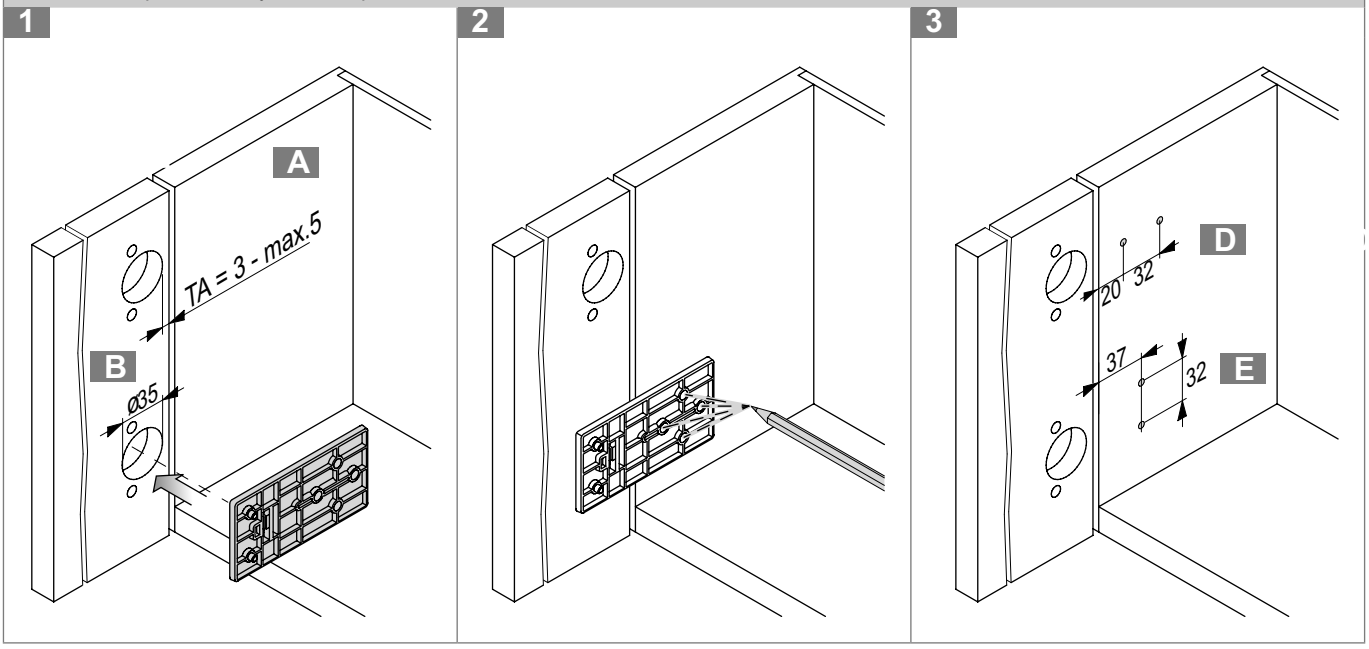
КСХ-Хаджидимитров ЕООД София, кв.Враждебна, ул. 3-та, 4 тел.: 02/ 943 45 34 www.obkov.com /e-mail: office@obkov.com

TIOMOS шаблон

ИНФОРМАЦИЯ ЗА МОНТАЖ

Tiomos comfort marking gauge

При използване на съществуващи отвори на 37 мм



Използване при съществуеащ отвор за чашката