

CHIC DOOR 160 HINGE

Functions

Reversible door hinge, to be applied inside the profiles for complete invisibility when the door is closed and adjustable in three directions (width, height and compression).

Online data sheet



Technical Features

Hinge with concealed installation, suitable for aluminium doors, even of large size, which meet most of the residential, commercial and public applications. An innovative system (patented) makes hinge installation and sash to frame coupling easier, even in the case of doors installed in architectural stack. Reduced profile machining and functional fixing devices on the hinge facilitate the doors production, reducing their production times.

CHIC Door is adjustable in three directions:

- Side adjustment (+/- 3 mm), using an Allen key on the hinge adjusters.
- Height adjustment (- 2 /+ 3 mm), using an Allen key on the adjustment screw.
- Compression adjustment (+/- 1 mm), obtainable by turning the screws on the sash hinge body.

Hinge tested in compliance with EN1935.

Compulsory: opening limiter.

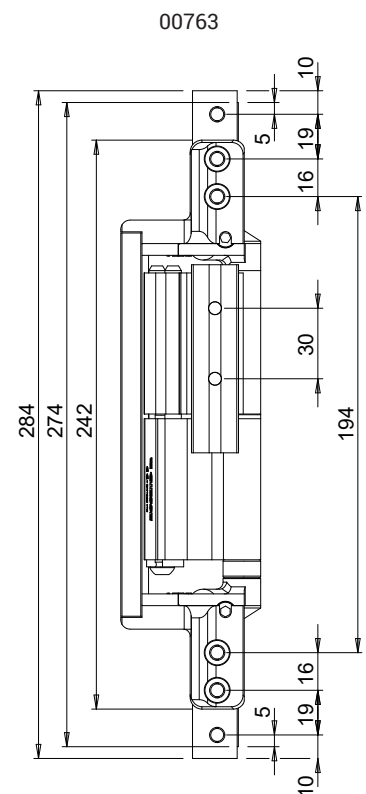
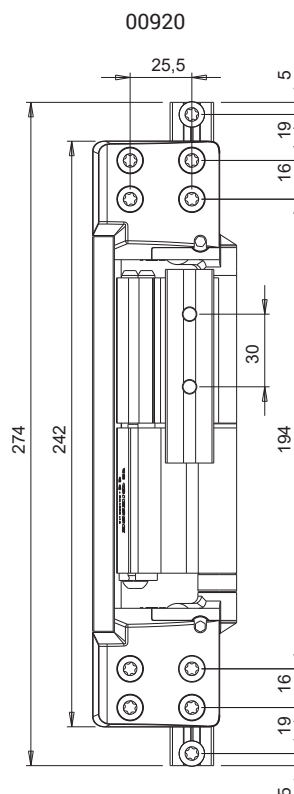
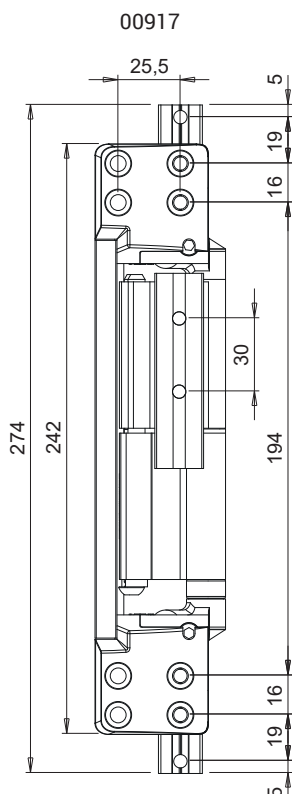
Materials

Extruded aluminium hinge bodies and upright
Main pin in white anodised turned aluminium
Bases and anchors in sealed white galvanised zamak

Axial bearing, adjustment plate and secondary stainless steel pins
Extruded aluminium fixing plates
Stainless steel screws and spring
Hostaform bushing
POM template

Capacities

160 kg with 2 hinges



CONCEALED HINGES FOR DOOR

DOOR WEIGHT REDUCTION COEFFICIENT (CRP) AS A FUNCTION OF SIZE

4000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3900	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.95
3800	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.90
3700	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.87
3600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.95	0.87
3500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.90	0.83
3400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.94	0.86	0.80
3300	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.90	0.83	0.77
3200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.94	0.85	0.79	0.75
3100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.89	0.82	0.76	0.71	0.69
3000	1	1	1	1	1	1	1	1	1	1	1	1	1	0.94	0.85	0.78	0.73	0.69	0.67
2900	1	1	1	1	1	1	1	1	1	1	1	1	1	0.88	0.81	0.75	0.70	0.67	0.65
2800	1	1	1	1	1	1	1	1	1	1	1	0.93	0.84	0.76	0.72	0.68	0.65	0.63	0.61
2700	1	1	1	1	1	1	1	1	1	1	1	0.88	0.80	0.74	0.69	0.65	0.63	0.61	0.59
2600	1	1	1	1	1	1	1	1	1	1	1	0.93	0.83	0.76	0.71	0.67	0.63	0.61	0.59
2500	1	1	1	1	1	1	1	1	1	1	1	0.88	0.79	0.72	0.68	0.64	0.61	0.59	0.57
2400	1	1	1	1	1	1	1	1	1	1	0.93	0.83	0.75	0.69	0.65	0.62	0.60	0.58	0.56
2300	1	1	1	1	1	1	1	1	1	0.87	0.78	0.71	0.67	0.63	0.60	0.58	0.56	0.54	0.52
2200	1	1	1	1	1	1	1	0.93	0.81	0.74	0.68	0.64	0.61	0.59	0.57	0.55	0.53	0.51	0.49
2100	1	1	1	1	1	1	1	0.85	0.76	0.70	0.65	0.61	0.59	0.57	0.55	0.53	0.51	0.49	0.47
2000	1	1	1	1	1	1	0.91	0.80	0.72	0.67	0.63	0.59	0.57	0.55	0.53	0.51	0.49	0.47	0.45
1900	1	1	1	1	1	0.85	0.75	0.68	0.64	0.60	0.58	0.56	0.54	0.52	0.50	0.48	0.46	0.44	0.42

To obtain the real sash maximum weight (P) multiply the Pmax value chosen in the Maximum load chart for the weight reduction coefficient (CRP) corresponding to the sash size (W x H).

Example:

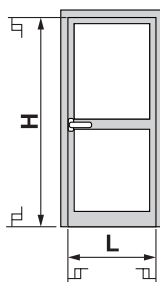
W x H = 1200 x 2800 mm

No. 2 hinges

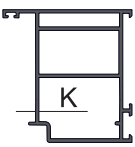
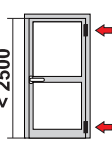
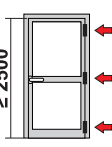
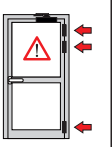
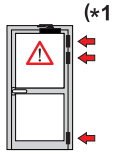
Profile thickness 1,8 mm

$P_{\max} = 160 \text{ kg}$

CRP = 1

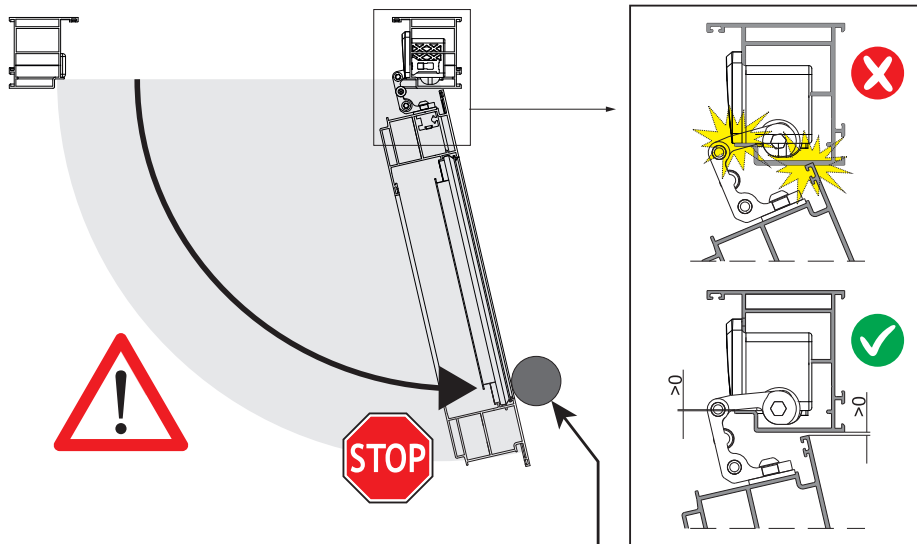
$$P = 160 \times 1 = 160 \text{ kg}$$


MAXIMUM LOAD CHART

	P _{max}			
				
K ≥ 1,8	160 kg	160 kg	160 kg	107 kg
K = 1,6 ÷ 1,8	(*2) 160 kg	(*2) 160 kg	(*2) 160 kg	(*2) 107 kg

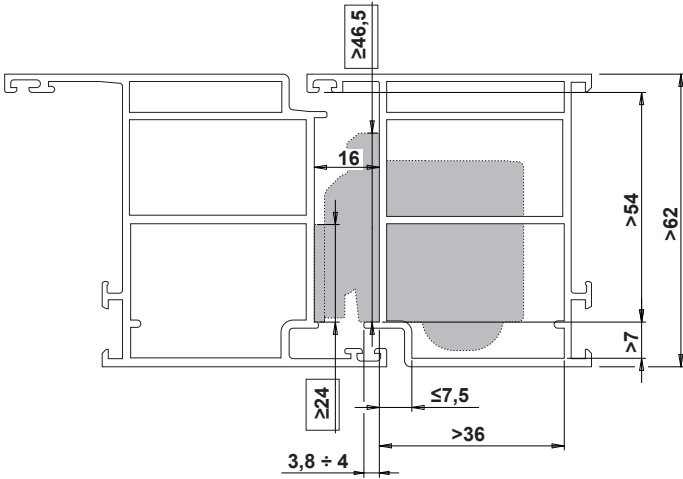
(*1) : With back-check facility

(*2) : Compulsory: Reinforcement kit art.
00755000

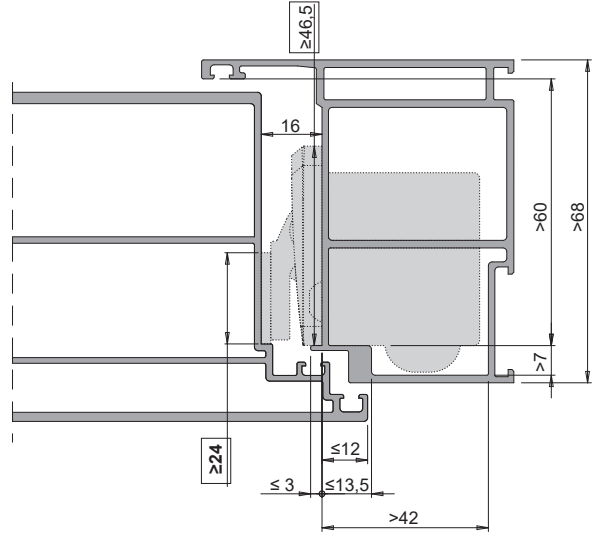


Compulsory: opening limiter.

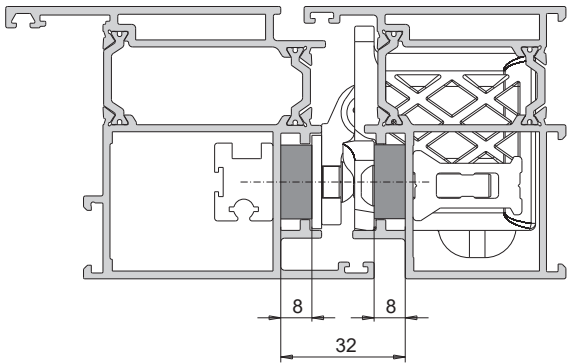
00917



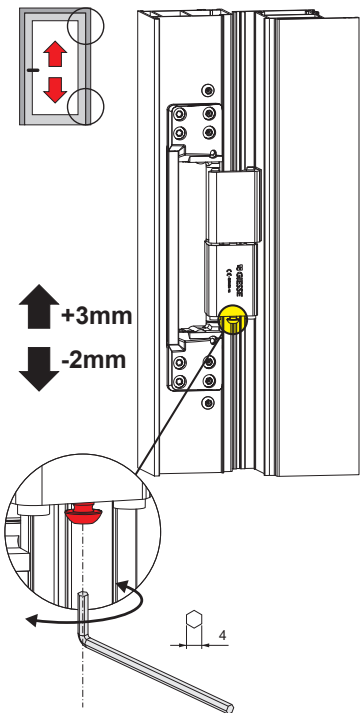
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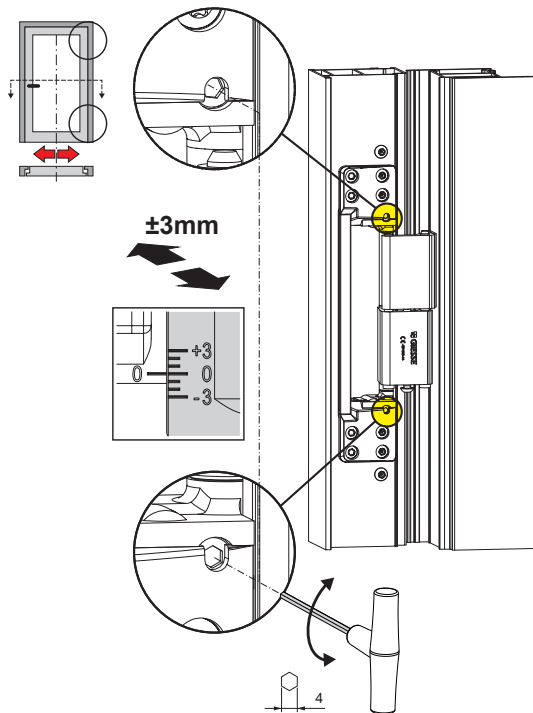
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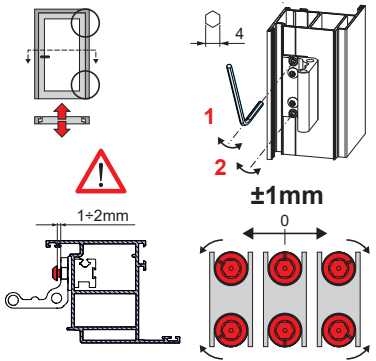
Height adjustment



Side adjustment

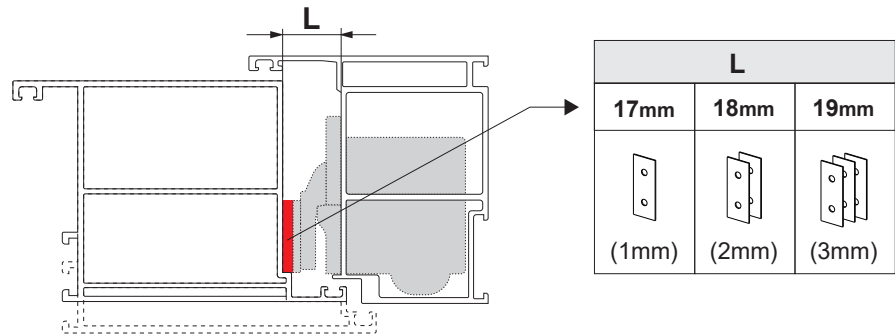
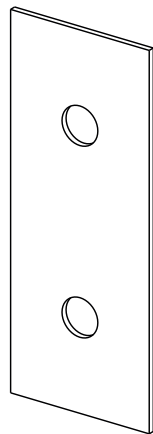


Compression adjustment



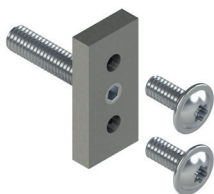
CONCEALED HINGES FOR DOOR

00757



Item code	Description	Version	Load capacity 2 hinges [kg]	Height adjustment	Side adjustment	Compression adjustment	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00917	FLUSH CHIC DOOR 160 HINGE	RH (reversible)	160	+3 / -2 mm	±3 mm	±1 mm		X			1
00920	OVERLAP CHIC DOOR 160 HINGE	RH (reversible)	160	+3 / -2 mm	±3 mm	±1 mm		X			1
00763	FLUSH CHIC DOOR CTZ HINGE	RH (reversible)	160	+3 / -2 mm	+2 / -3 mm	±1 mm		X			1
00757	THICKNESS 1 mm CHIC DOOR HINGE	-	-	-	-	-	X				50

CHIC DOOR REINFORCEMENT KIT



Functions

Reinforcement kit for fixing the CHIC Door 160 hinge when used on profiles with a thickness less than 1.8 mm.

Online data sheet

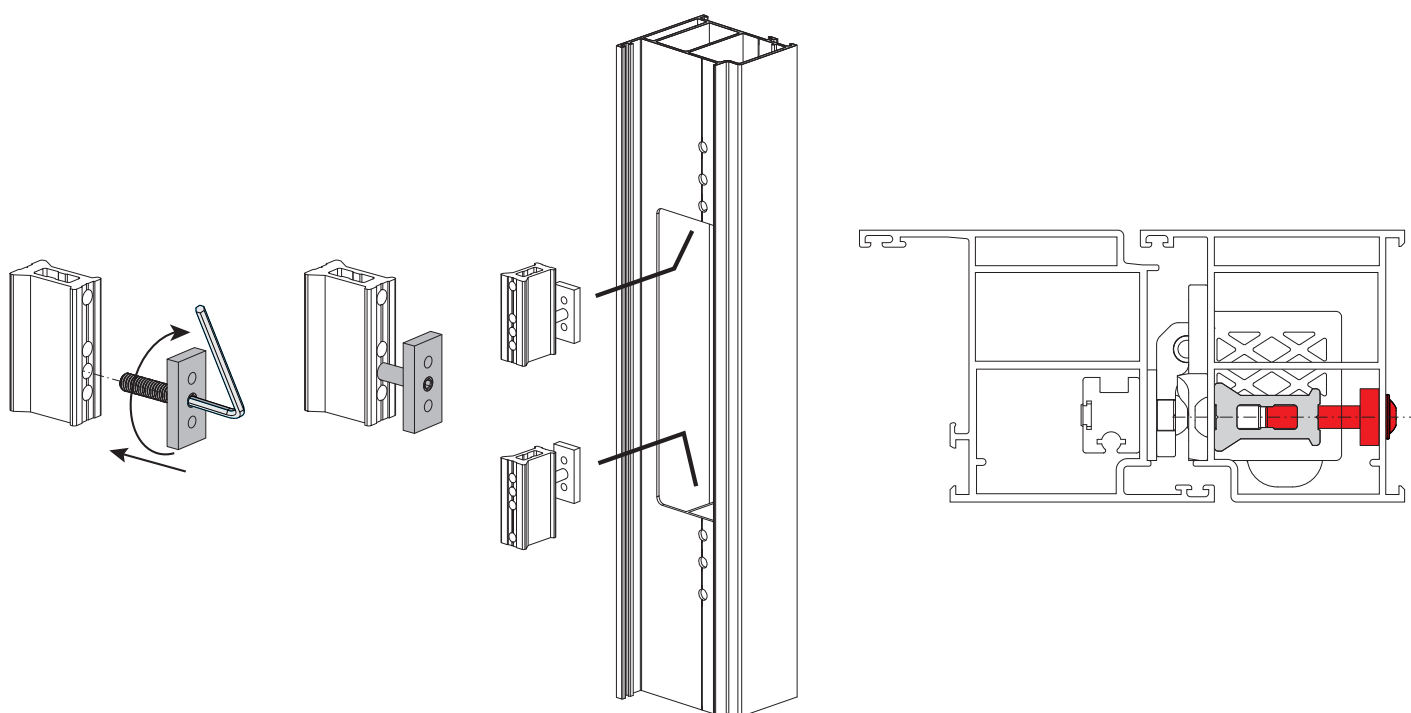


Technical Features

Reinforcement kit to be combined with the CHIC Door 160 hinge to make the hinge fixing more stable when the profiles thickness is less than 1.8 mm. Using the Kit on profiles with thickness from 1.6 to 1.8 mm allows to maintain the hinge load capacity performance unchanged. For application details refer to the fitting instructions made available with the CHIC Door 160 hinge.

Materials

Extruded aluminium plate
Stainless steel screws and grub screw



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00755	CHIC DOOR REINFORCEMENT KIT		X				5

CHIC DOOR INSTALLATION KIT



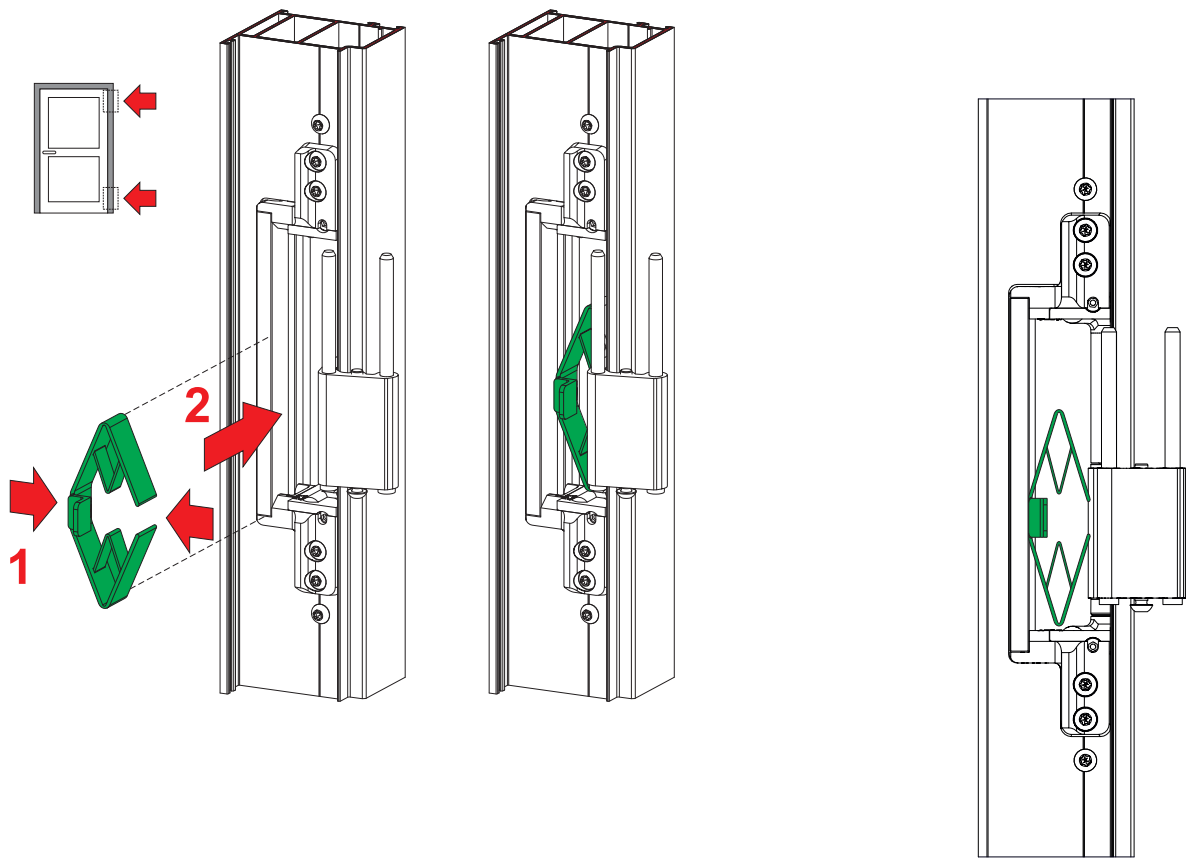
Functions

Positioning template for the frame hinge bodies correct alignment when fitting the sash.
It facilitates the sash joining to the frame keeping the pins of the different hinge bodies perfectly aligned with each other.

Online data sheet



Materials
POM



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00756	CHIC DOOR INSTALLATION KIT		X				20