



SUGATSUNE



Since 1930

The Secret to
Seamless Doors

Concealed Hinge
The HES Series



HES.
Hinge + Esprit

Experience the Unseen

When designing a door,
it's normal to focus on obvious visual aspects.

Hinges are often a secondary matter.

With this in mind,
we realise the value of hinges
that won't interfere with the door design.

The HES concealed hinge Series is designed aesthetically pleasing
to enhance & retain the beauty of door design with quality.



Slim
Frame

Seamless Integration
into the Frame

HES1F



Frameless / Framed
Doors Supported

HES3D

Without
Frame

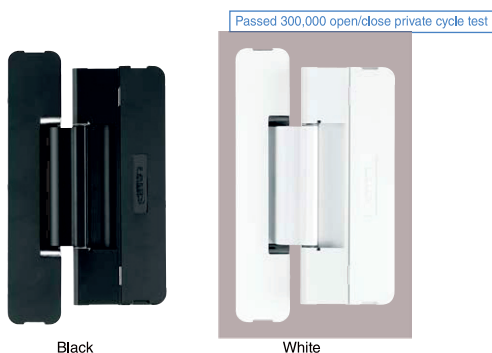


With
Frame

Easy
Surface Mounting

HES2S

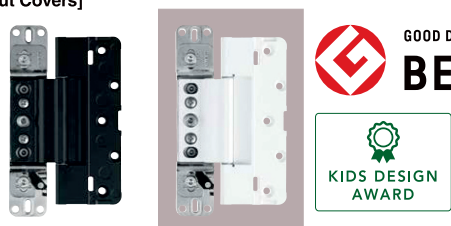




Black

White

[Without Covers]

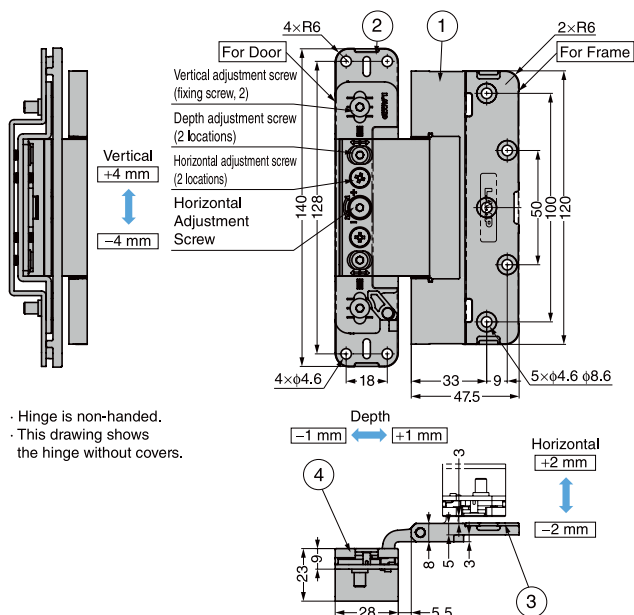


[Installation Example]



Open

Closed



- Hinge is non-handed.
- This drawing shows the hinge without covers.

No.	Part Name	Material	Finish/Colour	
			BL	WT
①	Body	Zinc Alloy (ZDC)	baked finish/Black	baked finish/White
②	Base Plate	Steel (SPCC)	Chrome	
③	Frame Side Cover	ABS	Black	White
④	Door Side Cover			

[Hinge]

RefS	CAD	Item Code	Item Name	Colour	Door Size			Load Capacity				Opening Angle
					Width	Height	Thickness	N/2pcs	kgf/2pcs	N/3pcs	kgf/3pcs	
●	●	170-053-352	HES1F-140-BL	Black	Max. 900	Max. 2700	Min. 36	392	40	490	50	180°
●	●	170-053-353	HFS1F-140-WT	White								

- Seamlessly integrates into the slim frame for a clean and modern look. The shaft part thickness is only 8 mm.
- Doors will be flush with walls when closed.
- Vertical, horizontal and depth adjustments can be made post installation.
- Easy and quick installation features:
 - Can separate into two parts during installation.
 - The doors can be provisionally hung on frame before fixing.

[Parts Included]

- For Door: Cross-recessed pan head tapping screw 4x16 (4 pcs/hinge)
- For Frame: Cross-recessed countersunk tapping screw 4x20 (5 pcs/hinge)
- Hex key 3
- Cutout template

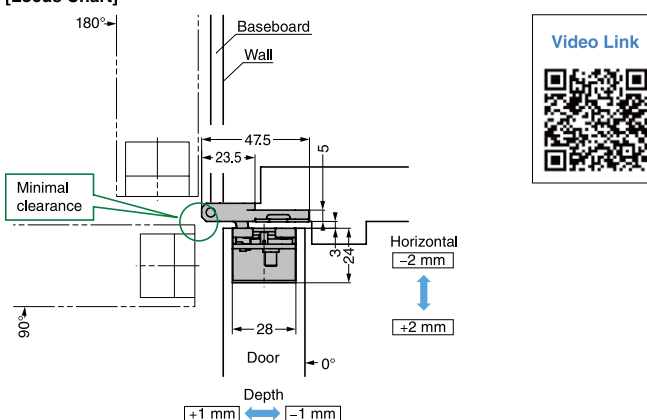
[Optional Parts]

- Base spacer
- Adjustment strike plate

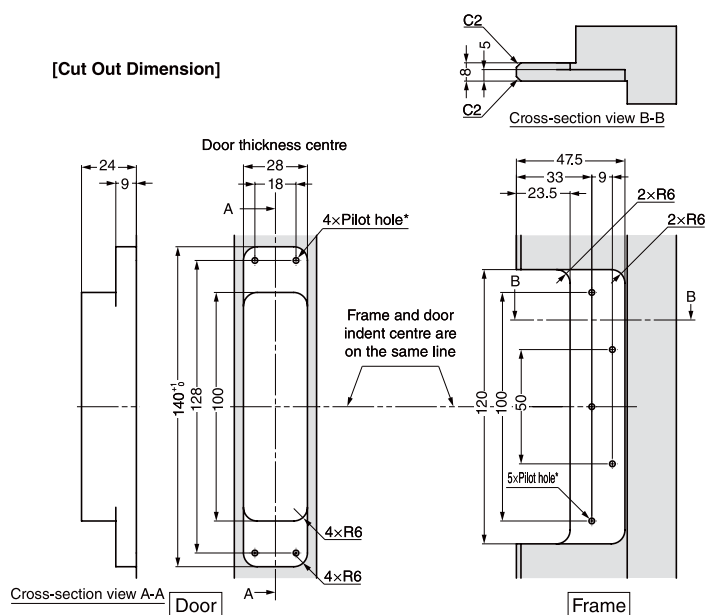
[Remarks]

- When using a lever handle, the optional base spacer and adjustment strike plate are required.

[Locus Chart]



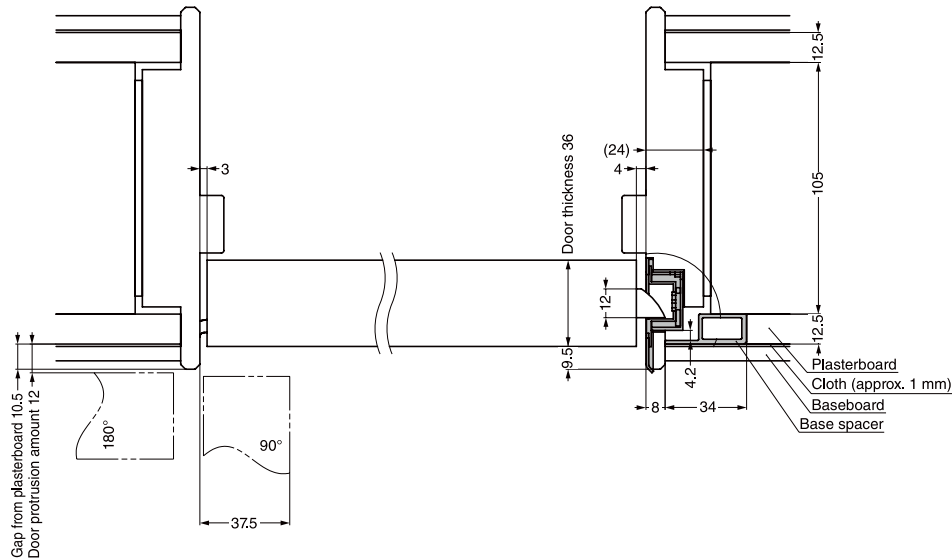
[Cut Out Dimension]



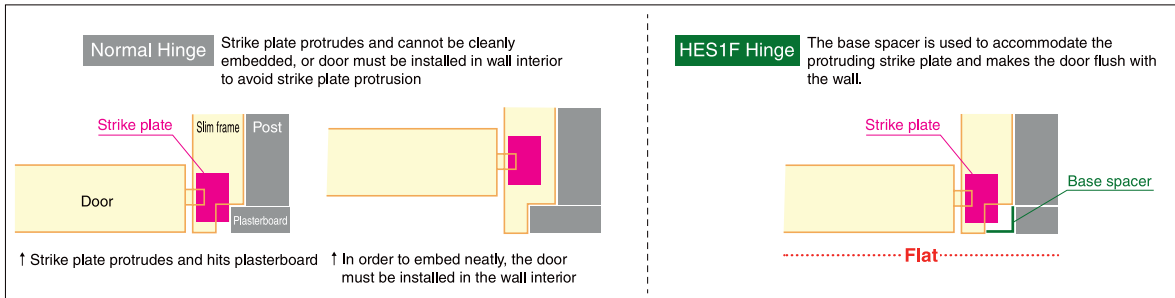
*Diameter and depth of the pilot hole depends on the strength of the wood.

[Standard Installation]

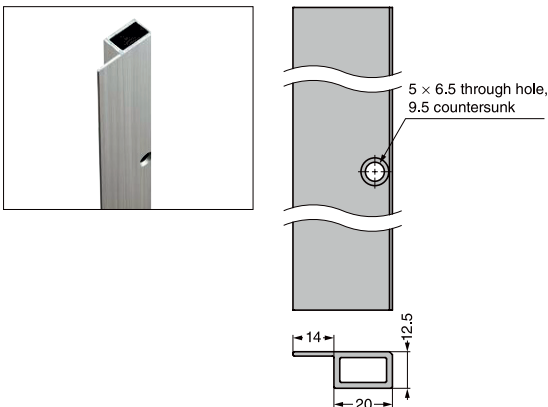
*Shows 8 mm width frame.



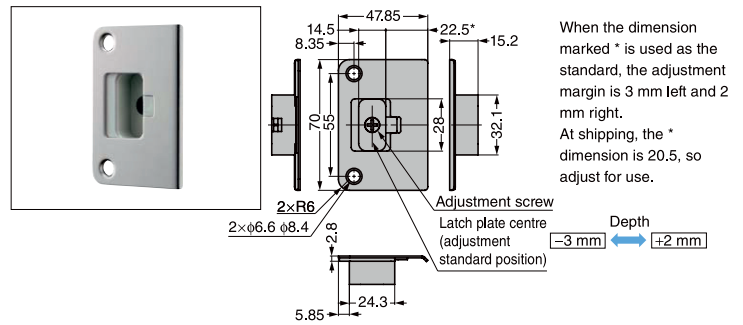
[Even slim-frame doors can be flush with walls]



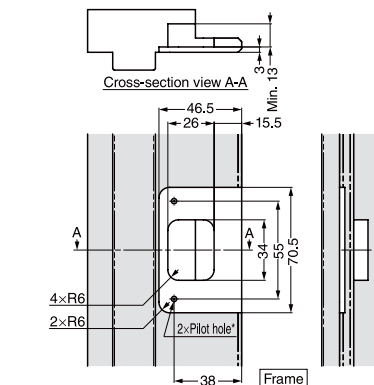
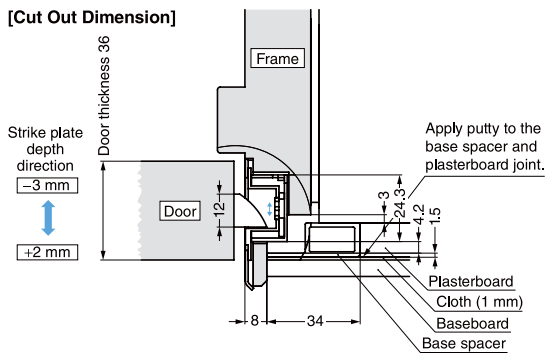
[Base Spacer] Optional parts



[Adjustment Strike plate] Optional parts



[Cut Out Dimension]



*Diameter and depth of the pilot hole depends on the strength of the wood.

[Base Spacer] Optional parts

RoHS	CAD	Item Code	Item Name	Material	Finish	Length	Weight (g)
●	●	170-053-400	HES1F-SP-2530	Aluminium	Anodised	2530	917
●	●	170-053-401	HES1F-SP-2730	Alloy	Anodised	2730	990

[Adjustment Strike plate] Optional parts

RoHS	CAD	Item Code	Item Name	Main material	Colour
●	●	170-053-354	HES1F-AST-SL	Stainless Steel (SUS304)	Silver

SLIM FRAME AND HINGE SET HES1F-B



*Door is not included.



- A set of necessary parts to make slim-framed doors.
- Includes aluminium frames, a strike plate, and the HES1F-140 hinge (P.13).
- The hinges and plates are preassembled on to the frames.
- Various wall thicknesses are supported. Base frames can be used as stand-alone unit.
- The hinge has a 3-way adjustment function. Doors are easy to install.

[Specifications]

- Compatible wall thickness
Base frame + adjustment frame: 114~145 mm
Wallpaper: 90 mm up
- Compatible plasterboard thickness: 12.5 mm

[Parts Included]

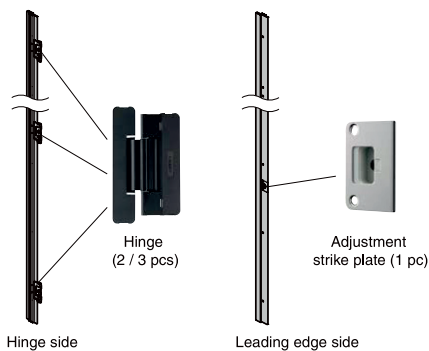
- Base frame: Hinge cover, cross-recessed pan head tapping screws 4x16, cross-recessed truss head tapping screws 4x40, screw caps for frame, hex key nominal 3, cutout template
- Adjustment frame: Screw caps for frame, cross-recessed truss head tapping screws 4x40

[Optional Parts]

- Base spacer (P.16) (Prevent interference between the plasterboard and the adjustment strike plate)

Base Frames Includes two frames (leading edge and hinge side). All parts are preassembled.

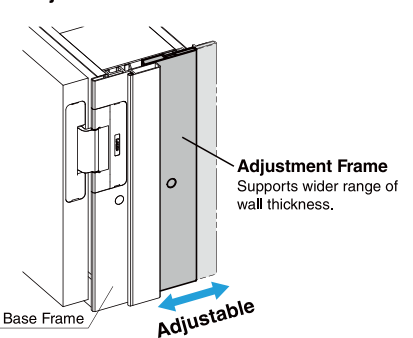
Items in the set



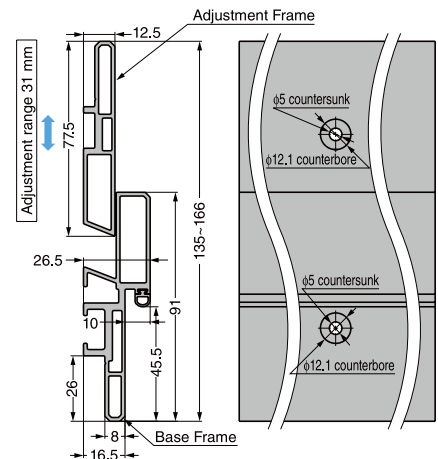
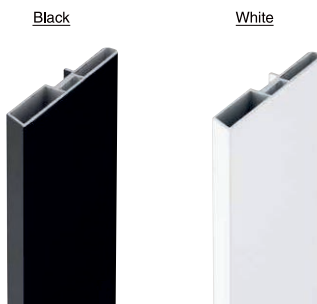
Colour variation



Adjustment Frames Includes two frames (leading edge and hinge side).



Colour variation



[Base Frame]

RdHS	CAD	Item Code	Item Name	Colour	Handed	Set Content	No. of Hinges	Door Thickness	Frame Height	Load Capacity N	Load Capacity kgf
●	●	170-054-170	HES1F-B2500L-BL	Black	Left	- Base frames (2 pcs) - Hinges - Adjustment strike plate (1 pc)	2 pcs	36~45	2500	392	40
●	●	170-054-171	HES1F-B2500R-BL	Black	Right						
●	●	170-054-168	HES1F-B2500L-WT	White	Left						
●	●	170-054-169	HES1F-B2500R-WT	White	Right						
●	●	170-054-164	HES1F-B2700L-BL	Black	Left	- Base frames (2 pcs) - Hinges - Adjustment strike plate (1 pc)	3 pcs	36~45	2700	490	50
●	●	170-054-165	HES1F-B2700R-BL	Black	Right						
●	●	170-054-162	HES1F-B2700L-WT	White	Left						
●	●	170-054-163	HES1F-B2700R-WT	White	Right						

[Adjustment Frame]

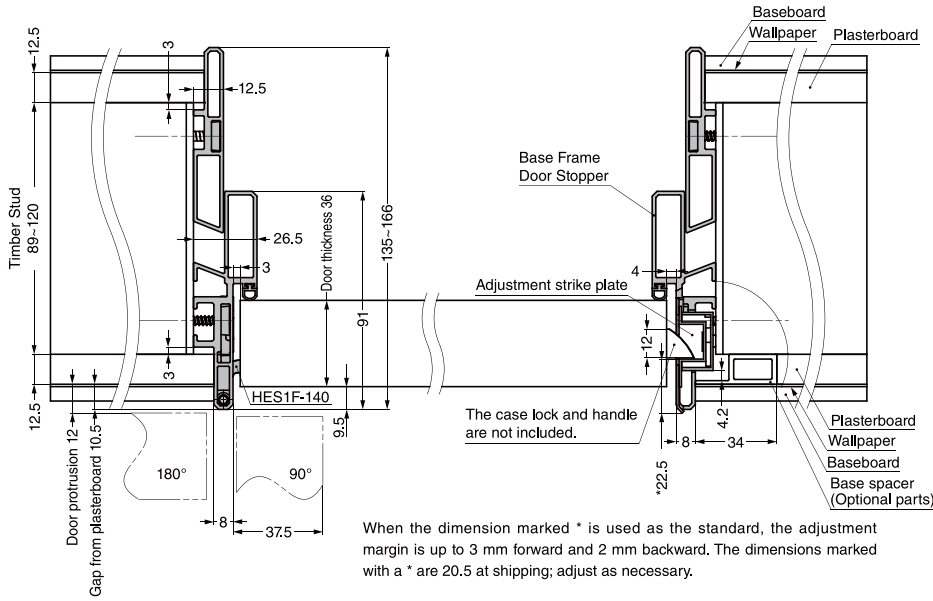
RdHS	CAD	Item Code	Item Name	Colour	Handed	Set Content	Door Thickness	Frame Height
●	●	170-054-173	HES1F-A2500-BL	Black	Non-handed	Adjustment frames (2 pcs)	36~45	2500
●	●	170-054-172	HES1F-A2500-WT	White				2500
●	●	170-054-167	HES1F-A2700-BL	Black				2700
●	●	170-054-166	HES1F-A2700-WT	White				2700

[Base Spacer] Optional Parts (P.16)

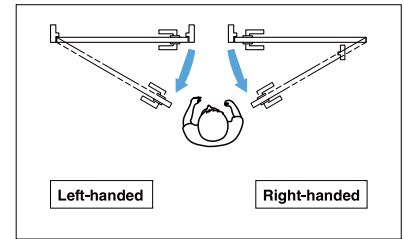
RdHS	CAD	Item Code	Item Name	Material	Finish	Length	Weight (g)
●	●	170-053-400	HES1F-SP-2530	Aluminium Alloy	Anodised	2530	917
●	●	170-053-401	HES1F-SP-2730			2730	990

Left-handed type shown.
Use the optional base spacer with the standard installation below.
For details, see the base spacer cut out dimensions (P.16).

[Standard Installation] Base Frame + Adjustment Frame

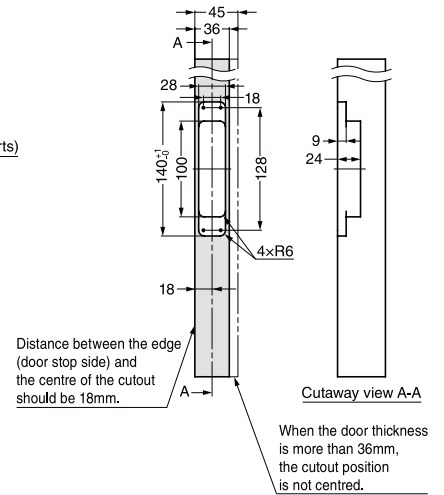


[Door Hinge Side]

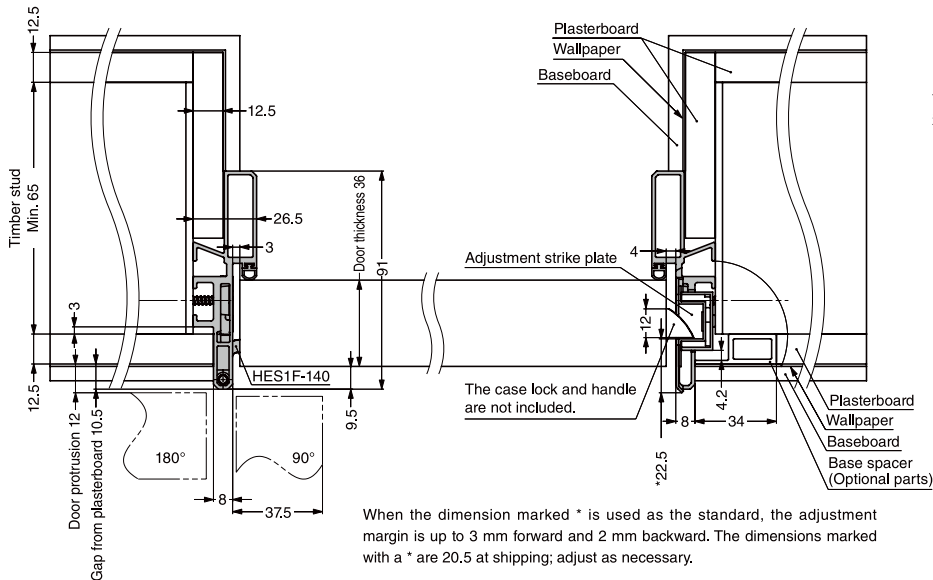


[Door Side Cut Out Dimensions]

For right-handed doors, the position of the cutout should be reversed.



[Standard Installation: Wallpaper] Base frame only



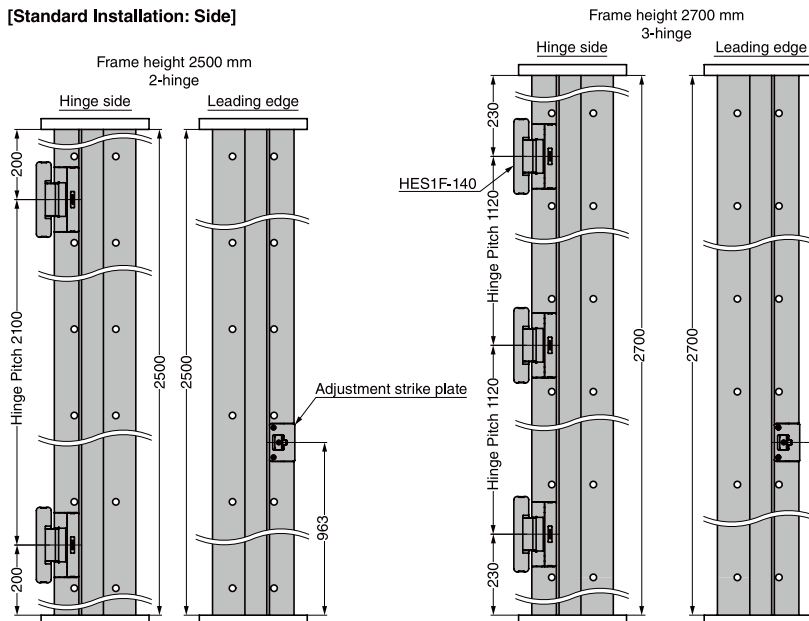
[Baseboard Thickness Guideline]

Door Thickness	36	40	45
Baseboard Thickness	Max. 9	Max. 8	Max. 3

[Video Link](#)



[Standard Installation: Side]



[Frames can be cut]

For cutting specifications, please check the instruction manual on our website.

HES2S-140-A125

SUGATSUNE

Load Capacity

50kgf/2pcs 65kgf/3pcs

3D Adjustability

Vertical: $\pm 3\text{mm}$ Horizontal: $+1\text{mm}$
Depth: $\pm 3\text{mm}$

Easy to Install

No mortising is required

Easy to Install

No Frame Cutouts Needed

《 No mortising on the frame side. 》

《 Useful on frames that are too thin to mortise. 》

《 Compact body with high load capacity. 》

■ Can be used on slim-framed and frameless doors because no frame mortising is required.



3-WAY ADJUSTABLE CONCEALED HINGE HES2S-140-A125 125° Opening



HES
Hinge & Esprit



Black

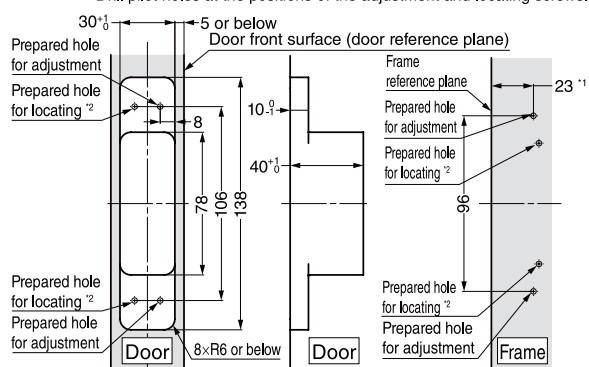
Dark Grey

Light Grey

Passed 300,000 open/
close private cycle test

[Cut Out Dimensions]

Drill pilot holes at the positions of the adjustment and locating screws.



*1 When door machining margin is 5 mm.

*2 The position of prepared hole for locating changes according to adjustment.

No.	Part Name	Material	Finish / Colour
①	Body	POM	Dark Grey, Light Grey, Black
②	Base Plate	SPCC	Nickel
③	Arm	Zinc Alloy (ZDC)	Chemical Treatment
④	Distance Plate	PBT	
⑤	Horizontal Adjustment Plate	POM	Dark Grey, Light Grey, Black
⑥	Socket Cover	ABS	
⑦	Base Plate Cover		

●Surface mount for door frame enables easy installation.

●3-way adjustment function allows vertical, horizontal, and depth adjustment after hinge installed.

[Remarks]

●Use with a door stopper, etc. to prevent opening farther than 125°.

●The hinge cannot be divided between the door and frame.

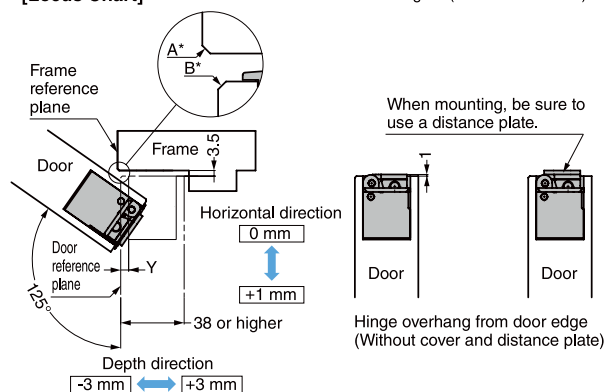
[Parts included]

●Countersunk head tapping screw 4x20 (8 pcs/hinge) Steel

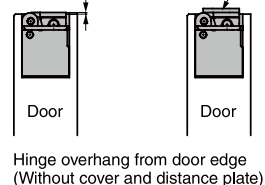
●Door side drilling/frame side mounting template

[Locus Chart]

Drill at the * mark in the figure (door/frame corner).



When mounting, be sure to use a distance plate.



Y: Door Machining Margin	B: Door chamfering	A: Frame chamfering
4 or below		
5	1 or higher	1 or higher

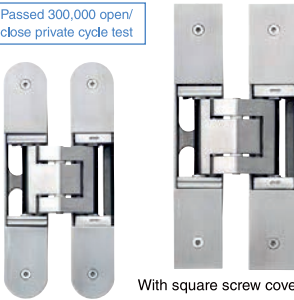
RoHS	CAD	Item Code	Item Name	Colour	Door Width	Door Height	Door Thickness	Door Weight kgf/2 pcs	Door Weight kgf/3 pcs	Opening Angle
●	●	170-053-252	HES2S-140-A125-DGR	Dark Grey	Max. 900	Max. 2700	Min. 38	50	65	125°
●	●	170-053-253	HES2S-140-A125-LGR	Light Grey						
●	●	170-050-758	HES2S-140-A125-BL	Black						

LAMP

STAINLESS STEEL CONCEALED HINGE HGS3D-S160SH With 3-way Adjustable Function



Passed 300,000 open/close private cycle test



With square screw cover (optional)

No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Plain
②	Base frame		
③	Arm		
④	Rotating Shaft		
⑤	Screw Cover (round type)		Satin

- Stainless steel structure with excellent corrosion resistance.
- With three-way adjustment function (vertical, horizontal, depth).
- The hinge can be split into two parts. (door and frame sides)

[Application]

- Residential doors, fire doors, facility doors, etc.

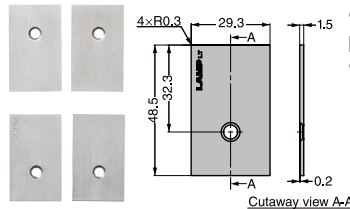
[Parts Included]

- Flat head tapping screw 5×40 (stainless steel)
- Hex key 4, 2.5
- Drilling template

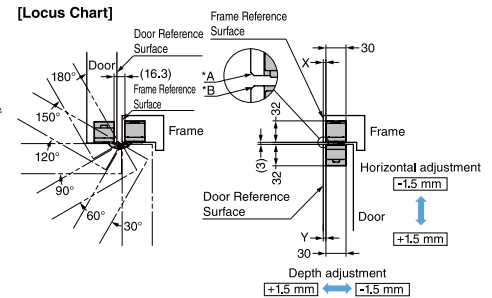
[Optional Parts]

- Square screw cover: Order when cut out is square (steel fittings, etc.).

[Square Screw Cover] Optional Parts



[Locus Chart]



*The door and frame must be chamfered in accordance with the machining margin, in order to open and close the door.

Y: Door machining margin	B: Door chamfering	X: Frame machining margin	A: Frame chamfering
4 or below	1	5 or below	1
	2	6	2
5	3	7	3
		5 or below	
		6	4

(Reference values)

[Body]

RdHS	CAD	Item Code	Item Name	Finish	Door width	Door height	Door thickness	Load Capacity N/2 pcs	Load Capacity kgf/2 pcs	Opening Angle
●	●	170-050-961	HGS3D-S160SH	Satin	Max. 900	Max. 2400	Min. 36	784	80	180°

*The selection tool can be used outside catalogue conditions as well.
Sold as a set (4 pcs).

[Square Screw Cover] Optional Parts

RdHS	CAD	Item Code	Item Name	Material	Finish
●	●	170-050-962	HGS3D-S160SH-SQCOVER	Stainless Steel (SUS304)	Satin

Please contact your local agent or nearest Sugatsune subsidiary for detail and availability.

3-WAY ADJUSTABLE CONCEALED HINGE HES3D-E160



HES
Hinge + Esprit



- Shallow drilling depth enables easy drilling of the door and frame.
- Three-way adjustment feature enables fine adjustment up, down, left, right, forward and back.
- The hinge can be divided between the door and frame and the door can be temporarily fastened to the frame, making it easy to hang the door.
- The structure is designed to prevent the door from sagging.
- Screw covers can be purchased separately in the event that the original covers are broken or lost. Contact us for details.

[Remarks]

- Read all remarks on handling thoroughly before use.
- When using with a door damper and/or closer, select the LAPCON LDD-S Door Damper, LAPCON LDD-V Door Damper and/or LAPCON LDC-N2 Closer.
- Select a door weight within a range satisfying the conditions of both the hinge and the door damper and/or closer.
- Some closers may cause the door to move awkwardly or not close fully. Test the product before purchase.
- When using a closer with a stopper, be sure to use a door stopper too (floor mounting type, wall mounting type, etc.). Install the door stopper in a position further forward than the stopper of the closer, and between the centre and end of the door.

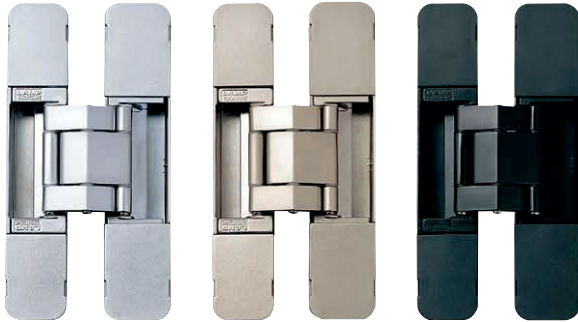
[Parts Included]

- Size 5 x 25 cross-recessed flat head tapping screws (stainless steel) (8 screws per hinge)
- Nominal size 4 hex bar spanner

No.	Part Name	Material	Finish/Colour		
			DC	DN	BL
①	Body	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Baked Enamel
②	Base Frame				
③	Arm	Aluminium Alloy			Finish/Black
④	Shaft	Stainless Steel	Plain	Plain	Plain
⑤	Screw Covers	ABS	Silver	Champagne Gold	Black

RdHS	CAD	Item Code	Item Name	Colour	Door Specs			Load Capacity				Opening Angle
					Width (mm)	Height (mm)	Thickness (mm)	N / 2 pcs	kgf / 2 pcs	N / 3 pcs	kgf / 3 pcs	
●	●	170-046-000	HES3D-E160DC	Silver	Max. 900	Max. 2400	Min. 36	539	55	686	70	180°
●	●	170-046-001	HES3D-E160DN	Champagne Gold								
●	●	170-046-002	HES3D-E160BL	Black								

3-WAY ADJUSTABLE CONCEALED HINGE HES3D-120



- Thin profile (21mm) allows for shallow mortise.
- Jig (sold separately) makes installation easy.
- Vertical, horizontal and depth adjustment possible post-installation (3way).
- Passed a 300,000 open/close cycle test in private testing.
- Can be split into two parts (one for the frame and one for the flap) making installation easy
- Temporary holding feature: can temporarily be hung and hold position without being affixed with screws. This makes installation much easier.
- Custom colors available on request. Please contact us for details.

[Remarks]

- Recommend to use with bellow door closer/ damper as bellow.
 - LAPCON DOOR DAMPER LDD-S (P.41-42)
 - LAPCON DOOR DAMPER LDD-V (P.37)
- When used in combination with door restrictors, please use HES3D-120-A100 instead. (P.21)

[Parts Included]

- Countersunk head tapping screw 5x20
- Hex. wrench (a nominal diameter 3)
- Cutout template

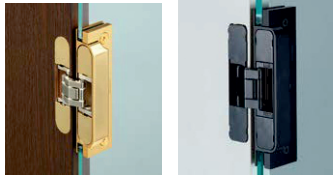
[Sold Separately]

- Installation template HES3D-120-TMP (No.240A Catalogue P.474)
- Metal door bracket 120BKT (P.29)

No.	Part Name	Material	Finish/Colour		
			DC	DN	BL
①	Body	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black
②	Base Frame	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black
③	Arm	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black
④	Shaft	Stainless Steel	—	—	—
⑤	Cover (2 pairs)	ABS	Satin Chrome	Satin Nickel	Black

RdHS	CAD	Item Code	Item Name	Colour	Door Width	Door Height	Door Thickness	Door Weight		Opening Angle	Weight	Box	Carton
●	●	170-045-819	HES3D-120DC	Silver	Max. 900	Max. 2400	Min. 29	Max. 30 kg/2 pcs	Max. 40 kg/3 pcs	180°	401 g	2 pcs	24 pcs
●	●	170-045-820	HES3D-120DN	Champagne Gold	Max. 900	Max. 2400	Min. 29	Max. 30 kg/2 pcs	Max. 40 kg/3 pcs	180°	401 g	2 pcs	24 pcs
—	●	170-045-821	HES3D-120BL	Black	Max. 900	Max. 2400	Min. 29	Max. 30 kg/2 pcs	Max. 40 kg/3 pcs	180°	401 g	2 pcs	24 pcs

LAMP GLASS DOOR BRACKET HES3D-G90BKT, HES3D-G120BKT

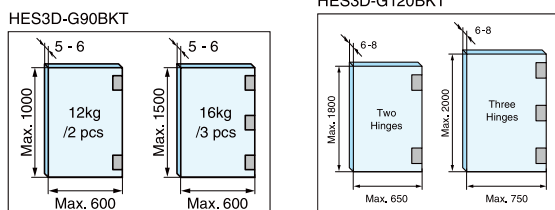


- Allows HES3D-90 hinge and the HES3D-120 hinge to be installed on glass doors.

[Parts Included]

- Hexagon socket countersunk screw M5 x 12
- Countersunk head screw M4 x 12
- Hex key (size: 3)

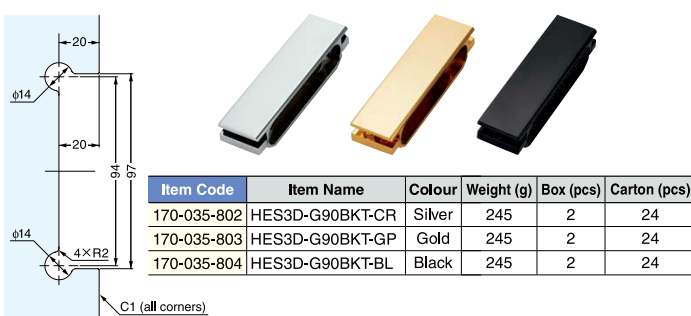
[Door Dimensions and Number of Hinges]



No.	Part Name	Material	Finish		
			CR	GP	BL
①	Body	Zinc Alloy (ZDC)	Chrome	24K Gold plating	Black Enamel Finish
②	Back Plate				
③	Gasket	Chloroprene Rubber (CR)	—	—	—
④	Screw Cover	ABS	Chrome	24K Gold plating	Black Enamel Finish
⑤	Hexagon Socket Countersunk Head Screw M5 x 12	Steel			

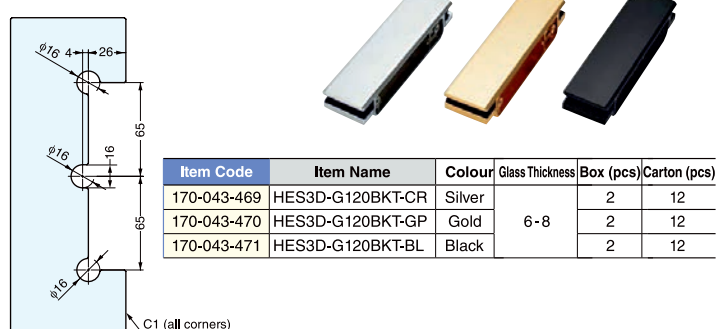
[HES3D-G90BKT]

[Cut Out Dimensions]



[HES3D-G120BKT]

[Cut Out Dimensions]



3-WAY ADJUSTABLE CONCEALED HINGE HES3D-E190



- Thin profile allows for shallow mortise and makes installation easier
- Jig (sold separately) makes installation easy.
- Has a fire safety rating of ANSI/UL 10C, CAN/ULC-S104
- Vertical, horizontal and depth adjustment possible post-installation (3way)
- Can be split into two parts (one for the frame and one for the flap) making installation easy
- Temporary holding feature: can temporarily be hung and hold position without being affixed with screws. This makes installation much easier.
- Custom colors available on request. Please contact us for details.
- Passed a 300,000 open/close cycle test in private testing.

[Parts Included]

- Countersunk head screw 5x30 (4 pcs/hinge)
- Allen key size 4

[Sold Separately]

- Installation template HES3D-E190-TMP (No.240A Catalogue P.474)
- Metal door bracket E190BKT (P.29)

No.	Part Name	Material	Finish/Colour			
			DC	DN	BL	NI
①	Body	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black Enamel	Nickel
②	Base Frame	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black Enamel	Nickel
③	Arm	Aluminum Alloy	Satin Chrome	Satin Nickel	Black Enamel	Nickel
④	Shaft	Stainless Steel	Plain	Plain	Plain	Plain
⑤	Cover	ABS	Silver	Champagne Gold	Black	Nickel

Video Link



RoHS	CAD	Item Code	Item Name	Colour	Door Specs					Opening Angle	Weight	Box	Carton
					Width	Height	Thickness	Weight					
●	●	170-045-815	HES3D-E190DC	Silver	Max. 900	Max. 2400	Min. 38 mm	Max. 100 kg/2 pcs	Max. 125 kg/3 pcs	180°	1,100 g	2 pcs	12 pcs
●	●	170-045-816	HES3D-E190DN	Champagne Gold	Max. 900	Max. 2400	Min. 38 mm	Max. 100 kg/2 pcs	Max. 125 kg/3 pcs	180°	1,100 g	2 pcs	12 pcs
●	●	170-045-817	HES3D-E190BL	Black	Max. 900	Max. 2400	Min. 38 mm	Max. 100 kg/2 pcs	Max. 125 kg/3 pcs	180°	1,100 g	2 pcs	12 pcs
–	–	170-033-568	HES3D-E190NI	Nickel	Max. 900	Max. 2400	Min. 38 mm	Max. 100 kg/2 pcs	Max. 125 kg/3 pcs	180°	1,100 g	2 pcs	12 pcs

3-WAY ADJUSTABLE CONCEALED HINGE HES3D-W190 Wide Throw



- Has a long arm for a wider throw. This allows for use on clad and thick doors.
- The small bore depth allows for easy mortising of doors and frames.
- Vertical, horizontal and depth adjustments are available.
- Easy and quick installation features:
 - Can separate into two parts during installation.
 - Can be provisionally hung on doors before fixing screws.
- Custom colours are available.
- Replacement screw covers are also available. Please contact us.

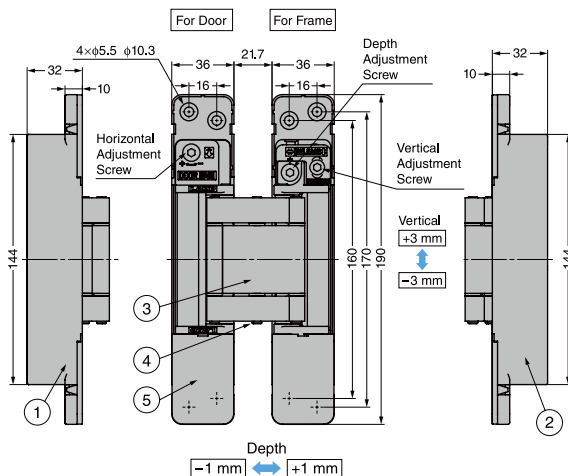
[Parts Included]

- Cross-recessed countersunk tapping screw 5 × 30 (8 pcs / hinge) stainless steel
- Hex key 4
- Cutout template

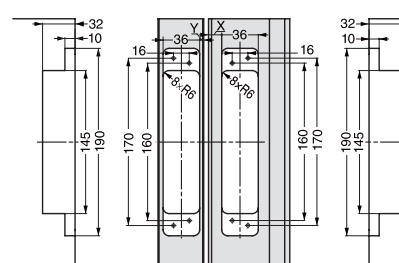
[Optional Parts]

- Installation jig HES3D-W190-TMP
- Stainless steel screw cover (made to order)

Video Link

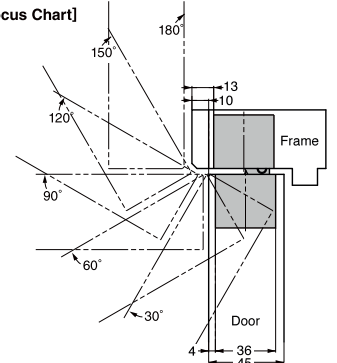


[Cut Out Dimension]



Please drill prepared holes for the tapping screws if the optional jig (HES3D-W190-TMP) is not used.

[Locus Chart]



The example drawing shows the case that there is a step of 10 mm between the door and the frame.

No.	Part Name	Material	Finish/Colour			
			DC	DN	BL	PN
①	Body	Zinc Alloy (ZDC)	Satin	Nickel	Enamel Black	Polished Nickel
②	Base Frame					
③	Arm	Aluminium Alloy	Plain	Plain	Plain	Plain
④	Shaft	Stainless Steel				
⑤	Screw Cover	ABS				

3-WAY ADJUSTABLE CONCEALED HINGE HES3D-70



HES
Hinge + Esprit

Passed 50,000 open/
close private cycle test



- Small HES series can be applied with Min. door thickness of 19 mm.
- Small bore depth, easy to cut out the door and frame.
- 3-way adjustment function allows vertical, horizontal, and depth adjustment after hinge installed.
- Hinge can be split into the door side and the frame side.

[Remarks]

- Can not be used with LAPCON DOOR DAMPER LDD or LAPCON DOOR CLOSER LDC-N2.
- Can not be used with lid stays or door damper.
- Use below opening angle 180°.

[Parts Included]

- Countersunk head tapping screw 4 × 20 (4 pcs/hinge) SUS
- Hex key 2

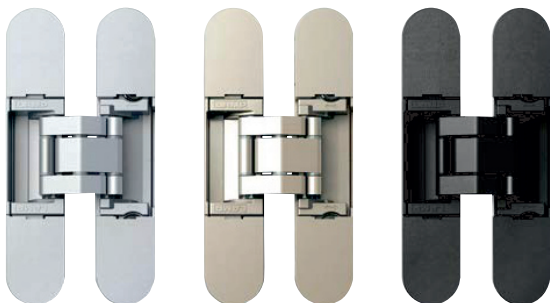
No.	Part Name	Material	Finish		
			DC	DN	BL
①	Body	Zinc Alloy (ZDC)	Satin Chrome	Dull Nickel	Black Paint
②	Cover (2 pairs)	ABS	Silver Paint	Champagne Gold Paint	Black

RoHS	CAD	Item Code	Item Name	Colour	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Door Weight kg/2 pcs	Door Weight kg/3 pcs	Opening Angle	Weight (g)	Box (pcs)	Carton (pcs)
●	●	170-035-441	HES3D-70DC	Silver	Max. 600	Max. 1200	Min. 19	Max. 9	Max. 12	180°	95	2	48
●	●	170-035-442	HES3D-70DN	Champagne Gold								2	48
●	●	170-035-443	HES3D-70BL	Black								2	48

3-WAY ADJUSTABLE CONCEALED HINGE HES3D-90



HES
Hinge + Esprit



- Thin profile allows for shallow mortise and makes installation easier
- Jig (sold separately) makes installation easy
- Vertical, horizontal and depth adjustment possible post-installation (3way)
- Can be split into two parts (one for the frame and one for the flap) making installation easy
- Custom colors available on request. Please contact us for details.
- Minimum door thickness: 23mm
- Max door width: 600mm
- Max door height: 1500mm (Can be used on taller doors if weight is within specifications)
- Can be used with DC-200 damper catch but can not be used with lid stays or other door damper.

[Parts Included]

- Countersunk head screw 4x20 (4 pcs./hinge)
- Hexagonal spanner x2

No.	Part Name	Material	Finish		
			DC	DN	BL
①	Body	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black Enamel
②	Base Frame	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black Enamel
③	Arm	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black Enamel
④	Shaft	Stainless Steel	—	—	—
⑤	Cover	ABS	Silver	Champagne Gold	Black

RoHS	CAD	Item Code	Item Name	Colour	Door Width	Door Height	Door Thickness	Door Weight		Opening Angle	Weight	Box	Carton
—	●	170-029-221	HES3D-90DC	Silver	Max. 600	Max. 1500	Min. 23	Max. 12 kg/2 pcs	Max. 16 kg/3 pcs	180°	198 g	2 pcs	48 pcs
●	●	170-029-222	HES3D-90DN	Champagne Gold	Max. 600	Max. 1500	Min. 23	Max. 12 kg/2 pcs	Max. 16 kg/3 pcs	180°	198 g	2 pcs	48 pcs
●	●	170-033-588	HES3D-90BL	Black	Max. 600	Max. 1500	Min. 23	Max. 12 kg/2 pcs	Max. 16 kg/3 pcs	180°	198 g	2 pcs	48 pcs



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