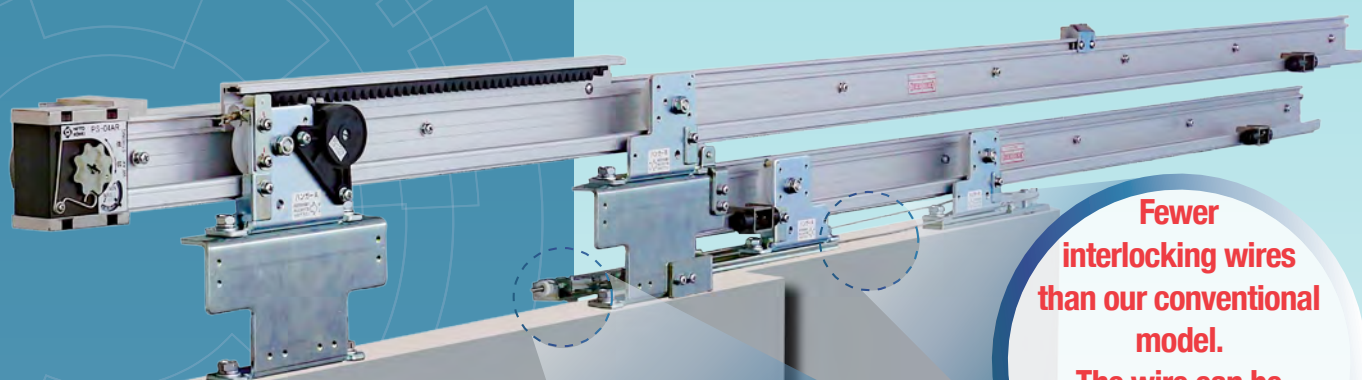


Option for Sliding Door Closer C Series Single-action Double-sliding system SC-2SA

Two sliding doors can be opened and closed in conjunction by combining with our standard sliding door closers



Fewer interlocking wires than our conventional model.
The wire can be installed before hanging the door.

Equipped with a wire tension adjustment mechanism.



Installation time is reduced by **approximately**

20%

compared to our conventional SC-2S model

A wide effective opening can be obtained even when there is little space for a door pocket



Used in medical and welfare facilities.



YouTube

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Option for Sliding Door Closer C Series Single-action Double-sliding system SC-2SA

Installability is improved

- Fewer interlocking wires compared to our conventional model (reduced from 2 to 1)
- The wire can be installed before hanging the door
- Equipped with a wire tension adjustment mechanism

Supports applicable door weight up to 160 kg (total for two doors)

Key Points!

Wide applicable effective opening

Saves installation space

Wide applicable door weight

||

Suitable for various locations!

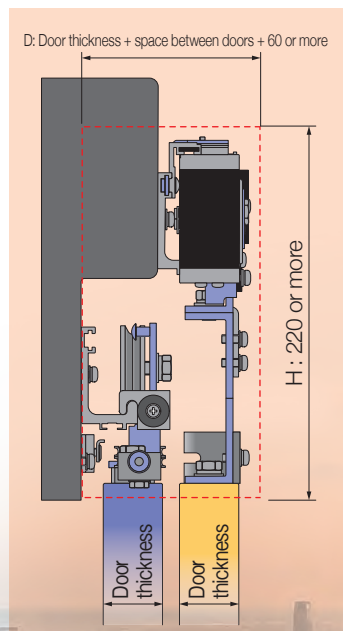
Specifications (Base model: NSC-C48)

Max. width of effective opening	(mm)	800 - 1500 (2000 ^{*1})
Applicable door weight [Total of two doors]	(kg)	80 (160 ^{*2})
Applicable door thickness	(mm)	30 - 45
Minimum in-frame dimensions	(mm)	H
		220
		D
		100 ^{*3}

*1: Can be up to 2000 mm with a made-to-order product.

*2: Can support up to 160 kg by using 2 sets of the Door Closer standard set model.

*3: When door thickness is 30 mm and space between doors is 10 mm.



Option

Single-action Double-sliding system SC-2SA type

Door weight

Total for two doors: Max. 80 kg / Max. 160 kg

Features

- The two sliding doors can be opened and closed in conjunction by combining with our standard set model.
- A wide effective opening can be obtained even when there is little space for a door pocket.
- The product can be used for both left and right hand sliding doors.

Specifications

Base model		Single-action Double-sliding system Model	Applicable door weight (total for two doors)	Max. width of effective opening
Series name	Model			
C series	DSC-CW03	SC-2SA-G16-W	Max. 30 kg	800-1500 (2000*) mm
	DSC-CW08	SC-2SA-G16-WP	Max. 80 kg	
	NSC-CW23	SC-2SA-G16-W	Max. 30 kg	
	NSC-CW48	SC-2SA-G16-WP	Max. 80 kg	
	DSC-C03	SC-2SA-GXX-ST*1	Max. 30 kg	
	DSC-C08		Max. 80 kg	
	NSC-C48		Max. 80 kg	
	NSC-C48	SC-2SA-GXX*1	Max. 160 kg	

*1 : SC-2SA-GXX models : "XX" represents the diameter of guide roller.

(Ex. SC-2SA-G25-ST is for Ø25 guide roller.) Select from Ø16, Ø25, Ø30 and Ø35.

*2 : Can be up to 2000 mm with a made-to-order product.

- Please contact us for pocket door type.
- The following parts are required to complete the single-action double-sliding door system.

◆When door weight is 80 kg or less

Parts required for system	Q'ty	Remarks
① Standard set (Base model)	1 set	
② Single-action double-sliding system set	1 set	Interlocking bracket, hanger (for interlocking door), door stop (for interlocking door), plate for wooden door (WP only)
③ Rail (for interlocking door)	1 set	
④ Guide rail (for interlocking door)	1 set	Only required for CW type base models.

Order example :

- ① NSC-CW48-31----- 1 set ③ Rail L = 2200----- 1 set
 ② SC-2SA-G16-WP----- 1 set ④ Guide rail L = 1300----- 1 set

◆When the door weight is 80 kg to 160 kg

Parts required for system	Q'ty	Remarks
① Standard set (Base model)	1 set	For main door
② Standard set (Base model)	1 set	For interlocking door
③ Interlocking bracket	1 set	
④ Door stopper	1 set	For door front end of interlocking door

Order example :

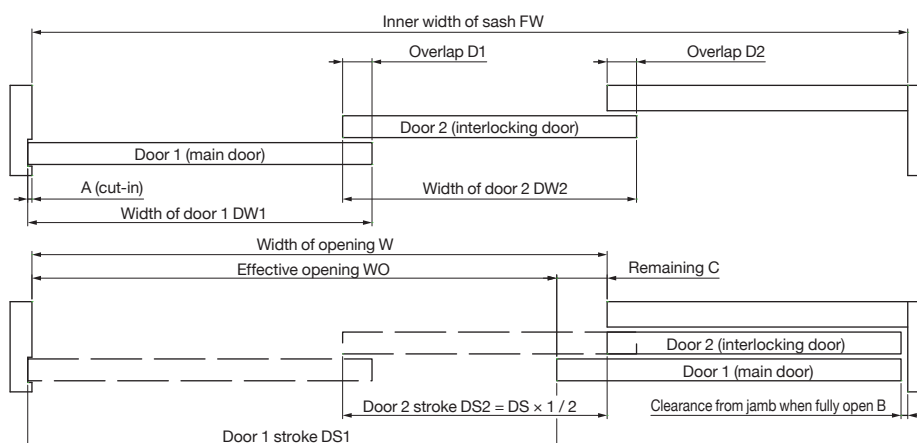
- ① NSC-C48-31(For main door)----- 1 set ③ SC-2SA-G30----- 1 set
 ② NSC-C48-22(For interlocking door) -- 1 set ④ Door stopper ----- 1 set



Calculation formula for main dimensions

Item	Code	Formula	
		Effective opening (reference)	Inner width of sash (reference)
Effective opening 800 to 1500 (2000*)	WO	Please specify	$\frac{FW - (A / 2) - B - C - D1}{1.5}$
Inner width of sash (3250 or less)	FW	$(1.5 \times WO) + \frac{A}{2} + B + C + D1$	Please specify
Door front end cut-in dimension	A	Please specify	Please specify
Clearance from jamb when fully open (10 mm or more)	B	Please specify	Please specify
Remaining	C	Please specify	Please specify
Overlap of door 1 (main door) and door 2 (interlocking door) (55 mm or more)	D1	Please specify	Please specify
Overlap of door 2 (interlocking door) and pocket (55 mm or more)	D2	$D2 = D1$	$D2 = D1$
Width of door 1 (main door) (550 mm or more*1)	DW1	$\frac{WO + A}{2} + C + D1$	$\frac{WO + A}{2} + C + D1$
Width of door 2 (interlocking door) (500 mm or more*2)	DW2	$DW1 - C$	$DW1 - C$
Width of opening	W	$WO + C$	$WD + C$
Rail length for door 1 (main door)	L1	$FW - 150$	$FW - 150$
Rail length for door 2 (interlocking door)	L2	$FW - DW1 + D1 + A - 140$	$FW - DW1 + D1 + A - 140$

* : Can be up to 2000 mm with a made-to-order product.



*1 : When the width of door 1 (DW1) is 550 or less, change the mounting position of the hanger on the door back end from 120 to 80.

*2 : When the width of door 2 (DW2) is 500 or less, change the mounting position of the hanger on the door back end from 120 to 80.

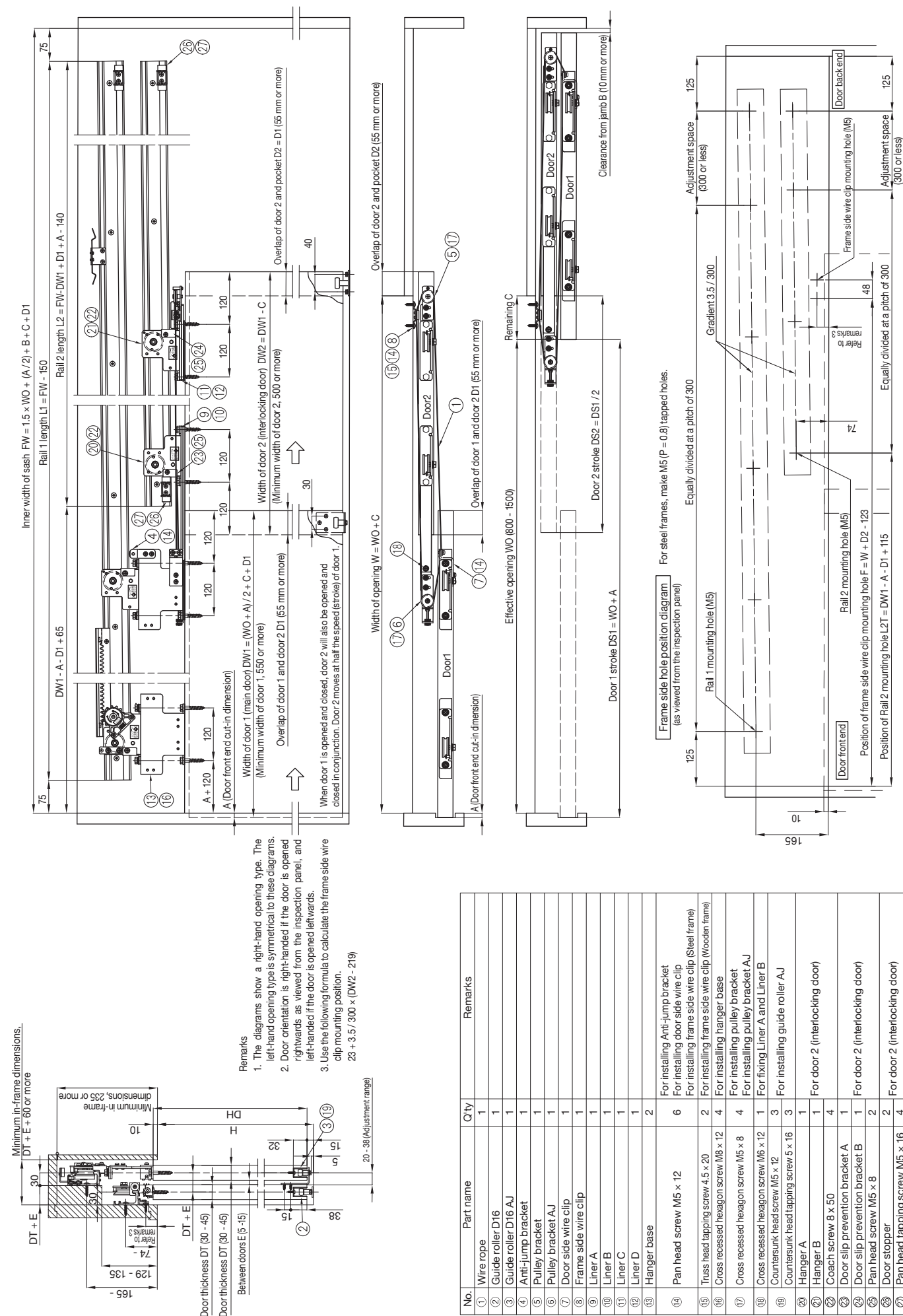
*When using this Single-action Double-sliding system, the stroke of door 2 (DS2) is always half of the stroke of door 1 (DS1).

Make sure to set

Base model : Incline type DSC-CW03

Single-action Double-sliding system Installation diagrams

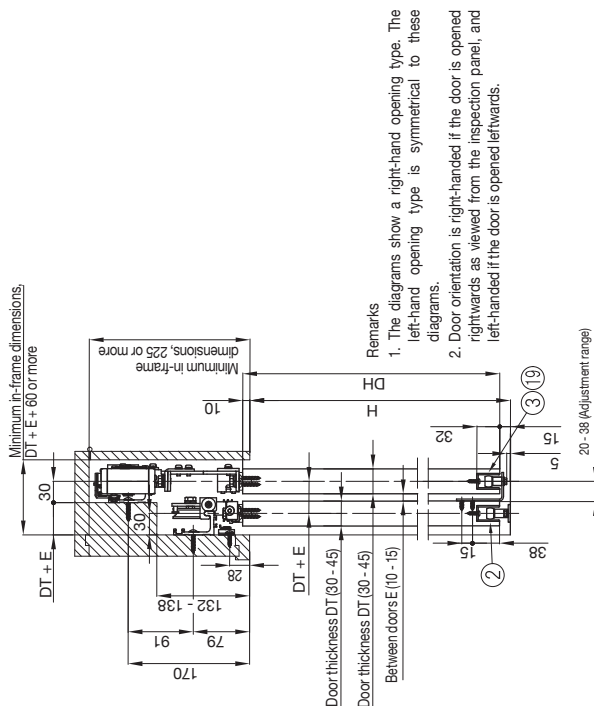
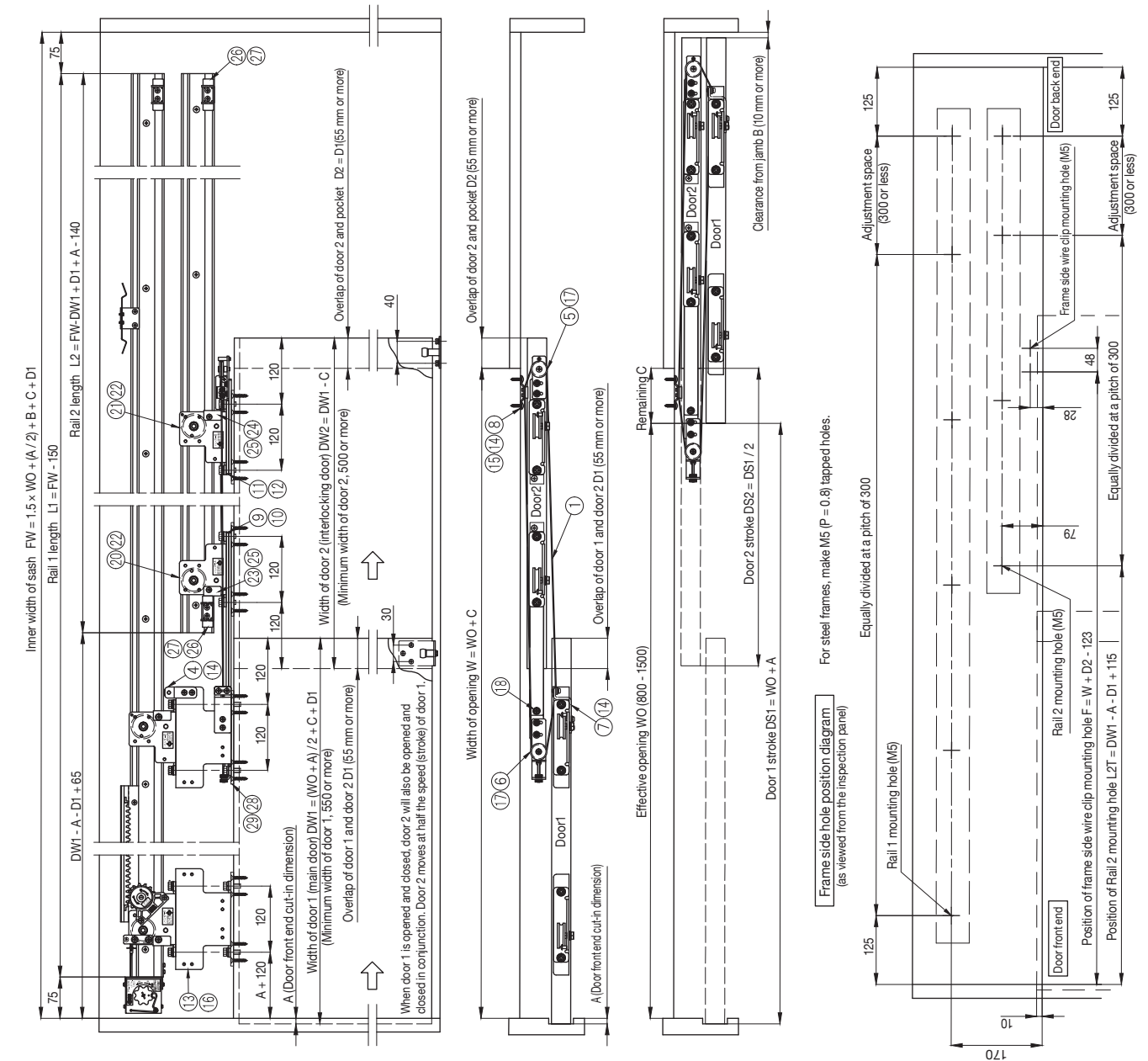
*The CAD data can be downloaded from the Nitto Kohki website.



Base model : Horizontal type NSC-CW48

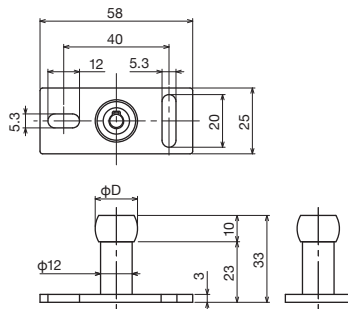
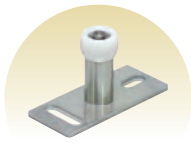
Single-action Double-sliding system Installation diagrams

*The CAD data can be downloaded from the Nitto Kohki website.



No.	Part name	Q'ty	Remarks
①	Wire rope	1	
②	Guide roller D16	1	
③	Guide roller D16 AJ	1	
④	Anti-jump bracket	1	
⑤	Pulley bracket	1	
⑥	Pulley bracket AJ	1	
⑦	Door side wire clip	1	
⑧	Frame side wire clip	1	
⑨	Liner A	1	
⑩	Liner B	1	
⑪	Liner C	1	
⑫	Liner D	1	
⑬	Hanger base	2	
⑭	Pan head screw M5 x 12	6	For installing Anti-jump bracket For installing door side wire clip For installing frame side wire clip (Steel frame)
⑮	Truss head tapping screw 4.5 x 20	2	For installing frame side wire clip (Wooden frame)
⑯	Cross recessed hexagon screw M8 x 12	4	For installing hanger base
⑰	Cross recessed hexagon screw M5 x 8	4	For installing pulley bracket
⑱	Cross recessed hexagon screw M6 x 12	1	For installing pulley bracket AJ
⑲	Countersunk head screw M5 x 12	3	For fixing Liner A and Liner B
⑳	Countersunk head tapping screw 5 x 16	3	For installing guide roller AJ
㉑	Hanger A	1	
㉒	Hanger B	1	
㉓	Coach screw 8 x 50	4	
㉔	Door slip prevention bracket A	1	
㉕	Door slip prevention bracket B	1	
㉖	Pan head screw M5 x 8	2	
㉗	Door stopper	2	
㉘	Pan head tapping screw M5 x 16	4	
㉙	Plate for wooden door	2	
㉚	Countersunk head tapping screw 5 x 30	8	

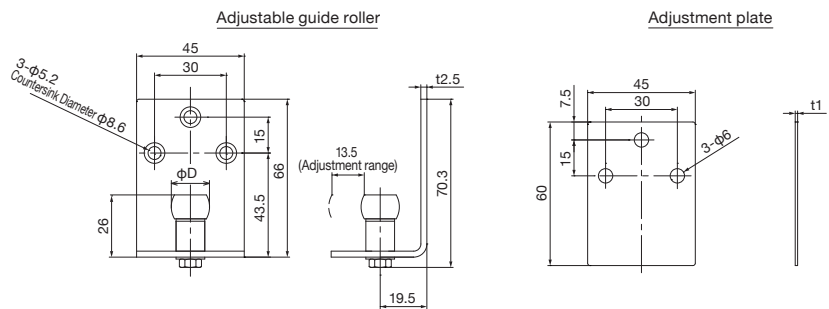
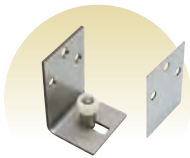
Guide roller



*Four types available ($\phi D = 16, 25, 30$, and 35)

Fitting : Stainless steel
Pulley : Polyacetal

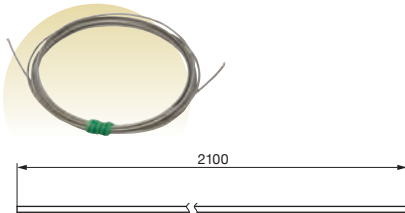
Adjustable guide roller



*Four types available ($\phi D = 16, 25, 30$, and 35)

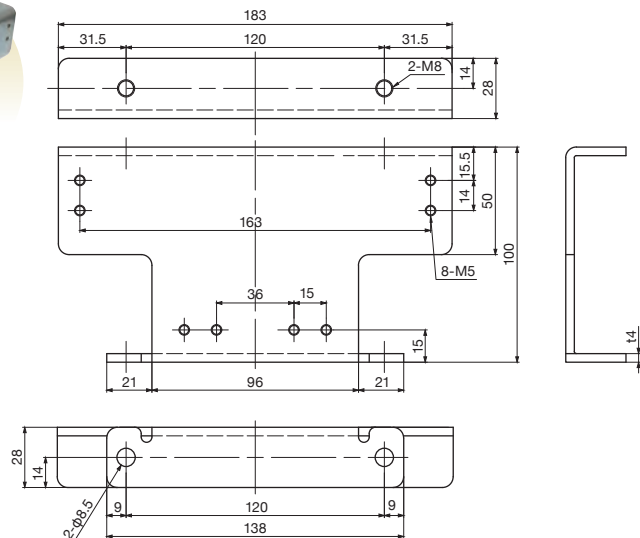
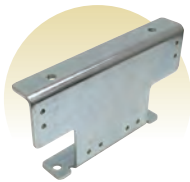
Fitting : Stainless steel
Pulley : Polyacetal

Wire rope (1 pc)



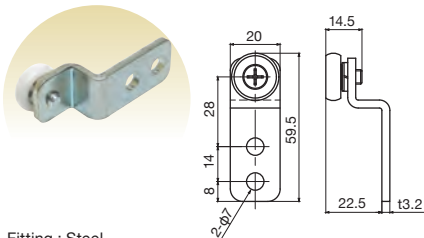
Wire : stainless steel

Hanger base



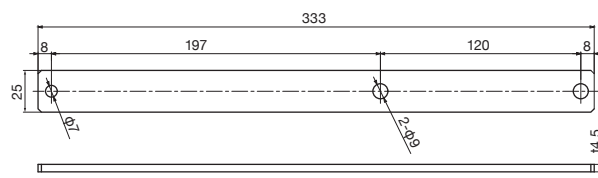
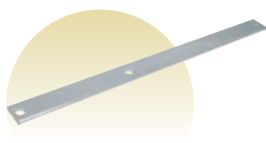
Fitting : Steel

Anti-jump bracket



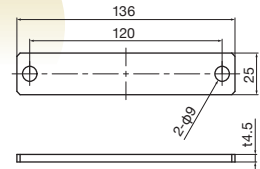
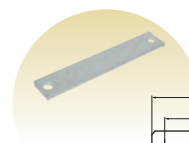
Fitting : Steel
Pulley : Polyacetal

Liner A



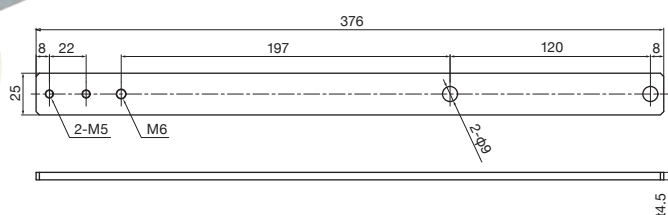
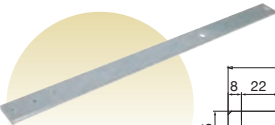
Fitting : Steel

Liner C



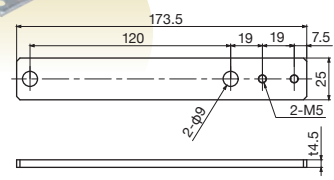
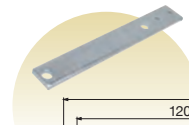
Fitting : Steel

Liner B



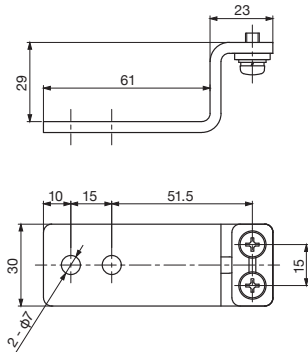
Fitting : Steel

Liner D



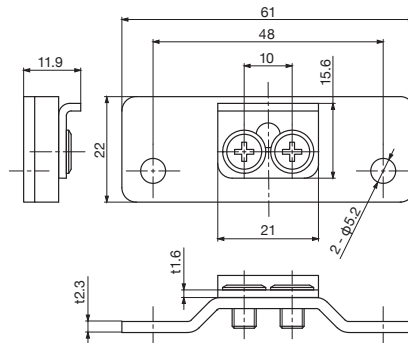
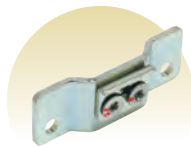
Fitting : Steel

Door side wire clip



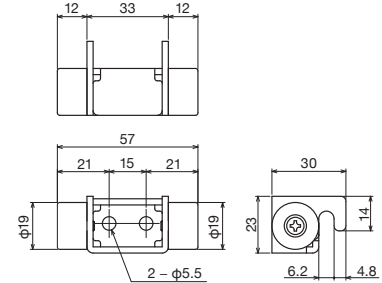
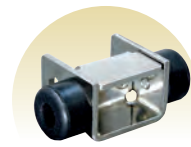
Fitting : Steel

Frame side wire clip



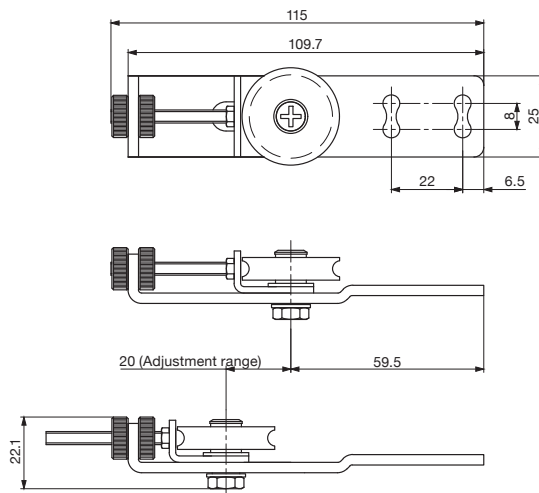
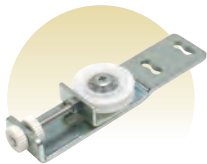
Fitting : Steel

Door stopper



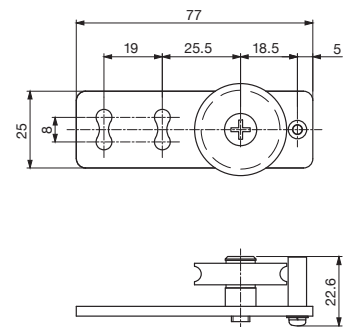
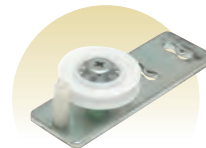
Bracket : Stainless steel
Door stopper rubber : Synthetic rubber

Adjustable pulley bracket



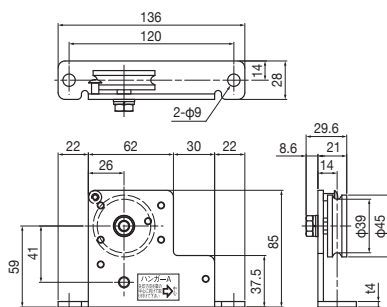
Fitting : Steel
Pulley : Polyacetal

Pulley bracket



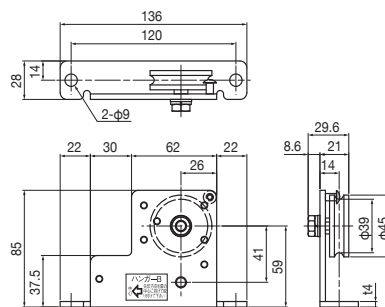
Fitting : Steel
Pulley : Polyacetal

Hanger A



Bracket : Steel
Door wheel : Polyacetal

Hanger B



Bracket : Steel
Door wheel : Polyacetal

Plate for wooden door

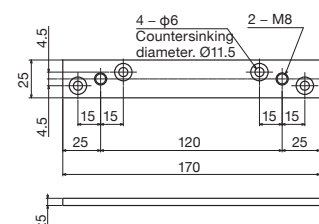


Plate for wooden door : Steel



6 Mounting the brackets to Door 2 (Interlocking door)

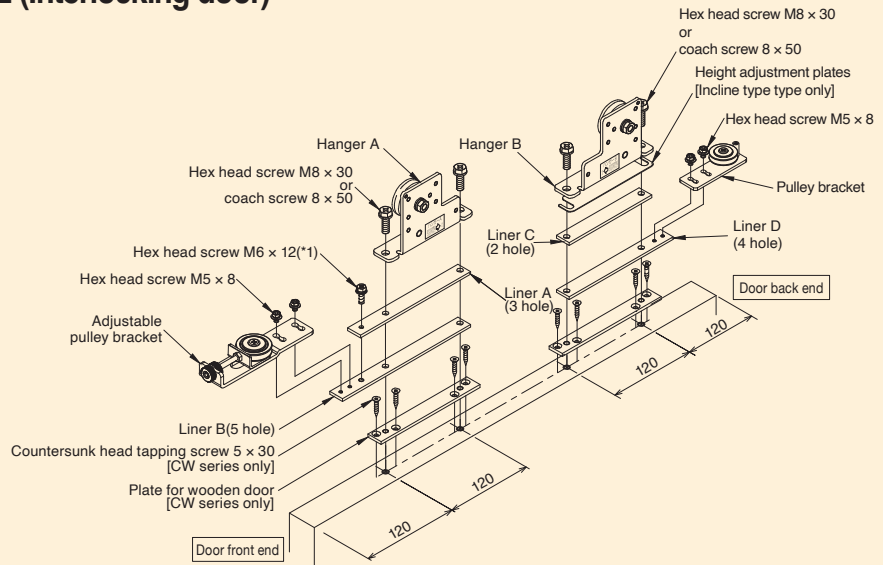
① Install the brackets as shown in the diagram below.

- For the incline type [DSC series], install them by inserting height adjustment plates under the door back end hanger base. The number of height adjustment plates differs depending on the door width. Install them referring to the table below.
- For [CW series] for wooden doors, install them by using the plates for wooden doors (refer to the diagram below).
- When using the plate for wooden doors, drill holes with a diameter of 9 mm and depth of 20 mm or more into the door where the screws will be screwed in.

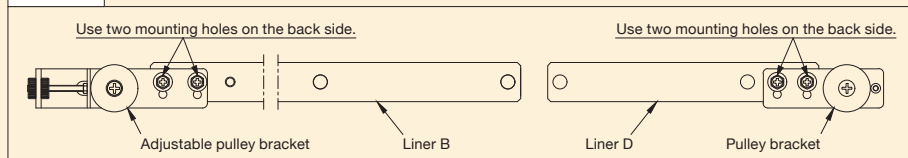
Number of height adjustment plates to use for incline type (Reference)

Door width (mm)	Quantity
500 to 600 or less	4
600 to 700 or less	5
700 to 800 or less	6
800 to 900 or less	7
900 to 1000 or less	8

*1 : Be sure to securely tighten the screws. Failure to do so may cause deformation of brackets.



Caution



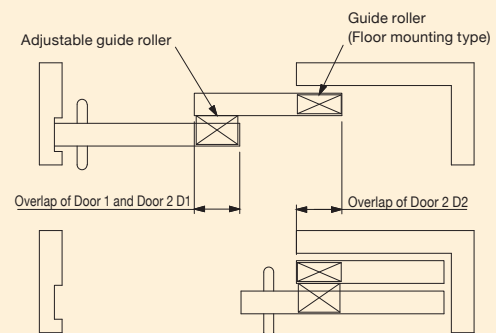
7 Installing the guide roller (floor mounting type) and adjustable guide roller

<<Installing guide roller (floor mounting type)>>

- ① Install it at the center of the overlapping section of Door 2. If the floor is concrete or mortar, use the supplied Fischer plugs to install. (Pilot hole $\phi 6$ mm)

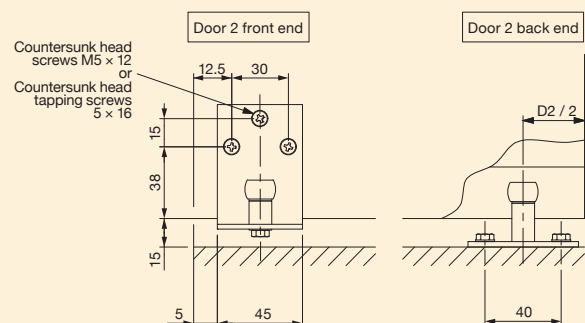
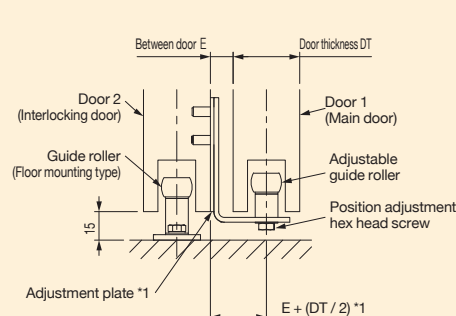
<<Installing adjustable guide roller>>

- ① Loosen the hex head screws of the adjustable guide roller and adjust the roller position to the dimensions shown in the diagram in accordance with the door thickness.
- *1 : If " $E + (DT / 2)$ " is more than 33 mm, use adjustable plate.
- ② Install the adjustable guide roller to Door 2 at the position shown in the diagram with the supplied countersunk head screws M5 x 12. (For the wooden doors, use the supplied countersunk head tapping screws 5 x 16.)



*1 : Number of adjustment plates for adjustable guide roller (reference)

$E + (DT / 2)$ mm	Quantity
33 or less	0
33 to 34 or less	1
34 to 35 or less	2
35 to 36 or less	3
36 to 37 or less	4
37 to 38 or less	5



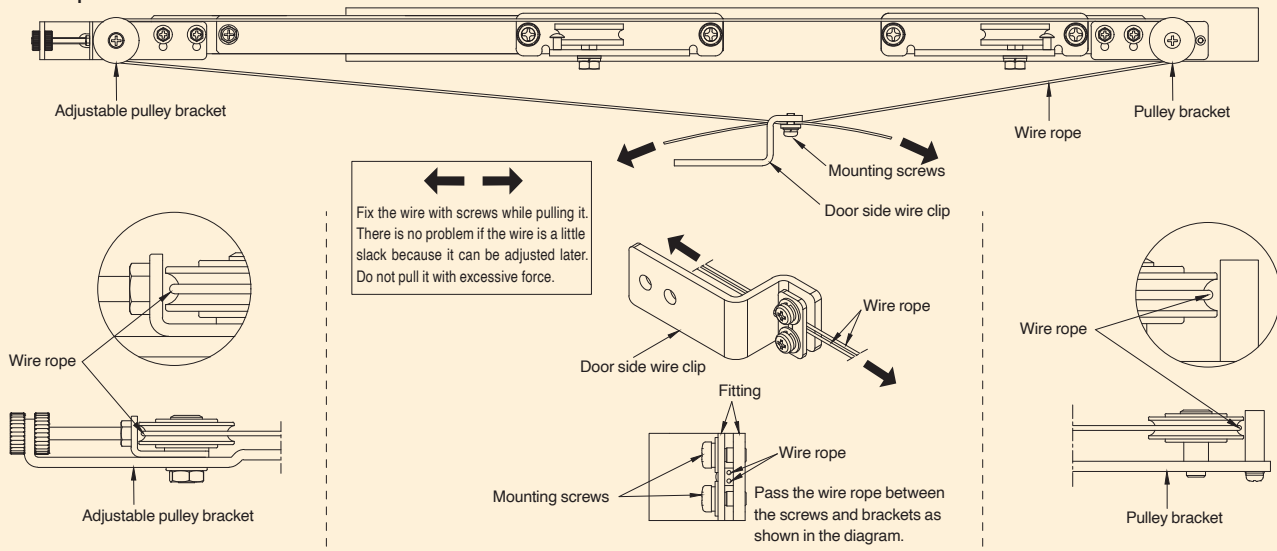


8 Installing the wire rope

- Referring to the diagram below, pass the wire rope around the pulley bracket and adjustable pulley bracket of Door 2 and through the door side wire clip. Tighten the screws of the door side wire clip to fix the wire rope.

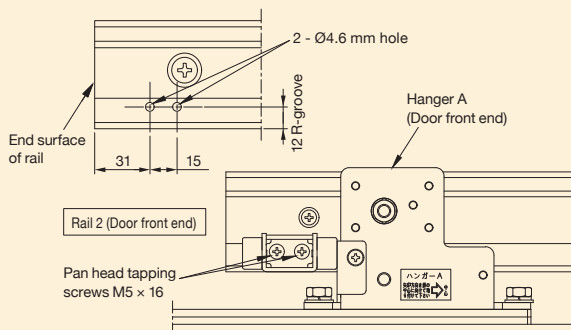
Caution

- Be careful about the orientation for installing the door side wire clip.
- There is no problem if the wire rope is a little slack because it can be adjusted later. Do not pull it with excessive force.



9 Installing the door stopper (Door 2 front end)

- According to the dimensions in the diagram below, drill two $\varnothing 4.6$ mm holes in the door front end on the Rail 2 for installing the door stopper.
- Install it with the supplied screws (pan head tapping screws M5 $\times$ 16).



10 Hanging the Door

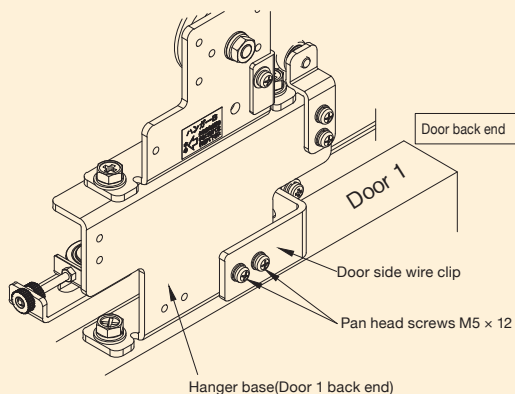
- Align the lower sections of the doors with the guide roller and hang the doors in the order of Door 2 then Door 1.
- After hanging the doors, install the door slip prevention brackets and anti-jump bracket.
- Check that each of the doors moves smoothly.
*Check the "Installation Precautions"

Caution

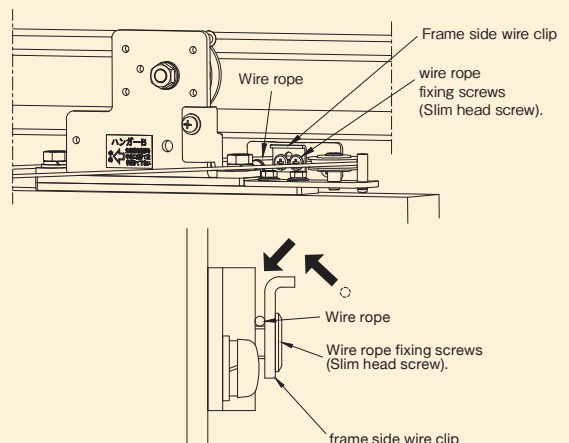
- Be sure to install the door slip prevention brackets (4 pcs) and the anti-jump bracket (1 pc) to prevent door disengagement.

11 Setting the wire rope

- Referring to the diagram below, install the door side wire clip with the supplied pan head screws M5 $\times$ 12.



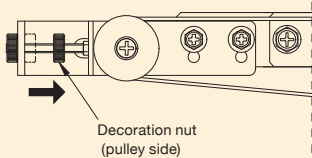
- Loosen the wire rope fixing screws (slim head screw).
- Referring to the diagram on the right, hook the wire rope on the frame side wire clip with the door fully closed.



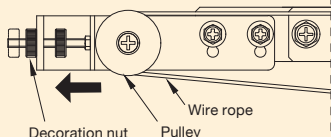


11 Setting the wire rope

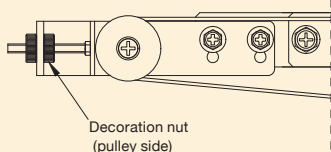
- ③-1: Loosen the decoration nut (pulley side) and move it toward the pulley.



- ③-2: Tighten the other decoration nut until the pulley moves in the direction of the arrow and there is no slack in the wire rope.



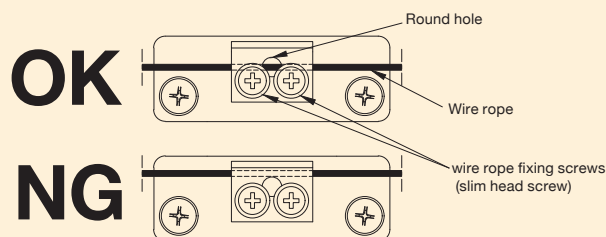
- ③-3: After adjusting the slack in the wire rope, tighten the decoration nut (pulley side) to securely fix the pulley in place.



Caution

- Stretch out the wire rope to the extent that it is loose but not slack. If it is pulled too taut, an unreasonable load will be applied and cause a failure.
- Be sure to set the wire rope with the door fully closed.

- ④ Finally, tighten the wire rope fixing screws (slim head screw) of the frame side wire clip.



Caution

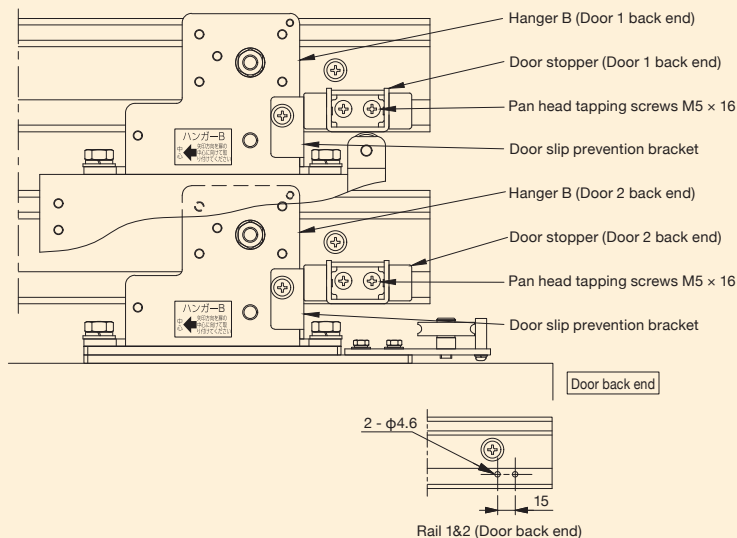
- When tightening the screws, check that the wire rope can be seen from the round hole of the fitting as shown in the diagram above.
- Be sure to set the wire rope with the door fully closed.

12 Installing the door stoppers (Door back end, 2 pcs)

- Keep Door 1 and Door 2 fully opened.
- Set the door stopper to touch the door slip prevention bracket for hanger B (Door 1 and Door 2 back end)
- Mark the screw installation positions on the rails.
- Drill two additional installation holes (ø4.6 mm) on the marked positions of ③.
- Install the door stoppers with the supplied pan head tapping screws 5 x 16.

Caution

- The door stoppers (x2) must touch each of their door slip prevention brackets when the door is fully opened.



13 Installing the braking device, pull spring, and stop device

- Referring to the installation manual of the door closer unit, install the braking device, pull spring (NSC series only), and stop device.
- Open and close the door and adjust the closing time by adjusting the braking device and pull spring.

This completes the installation.

Door Closer

NITTO KOHKI CO., LTD.

Web www.nitto-kohki.co.jp/e/

Head Office

2-9-4, Nakaikegami, Ota-ku, Tokyo 146-8555, Japan

Tel : +81-3-3755-1111 Fax : +81-3-3753-8791

E-mail : overseas@nitto-kohki.co.jp



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