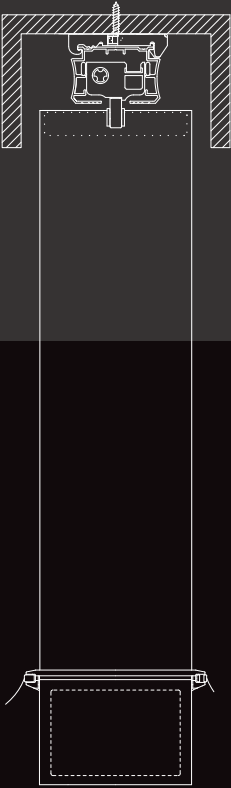
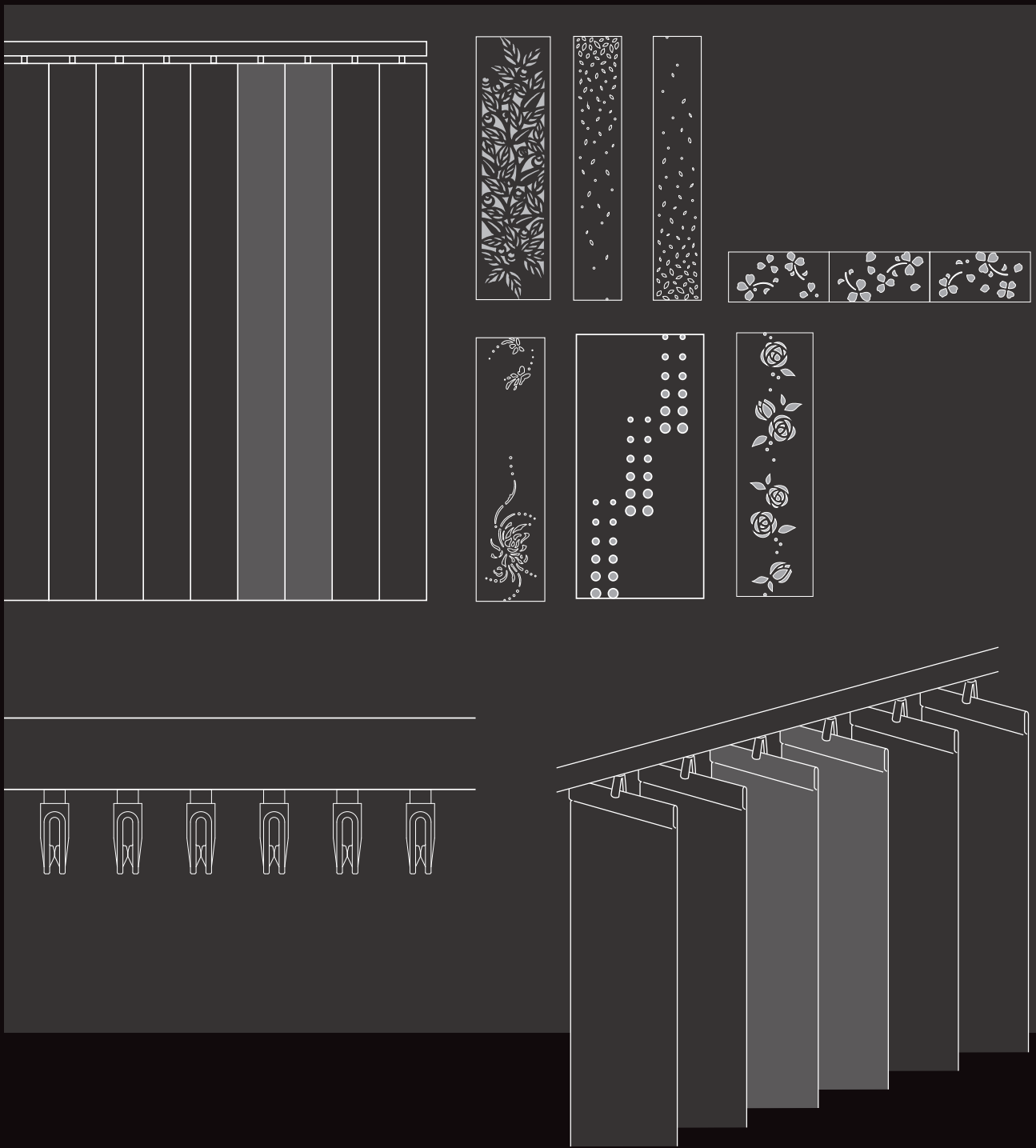
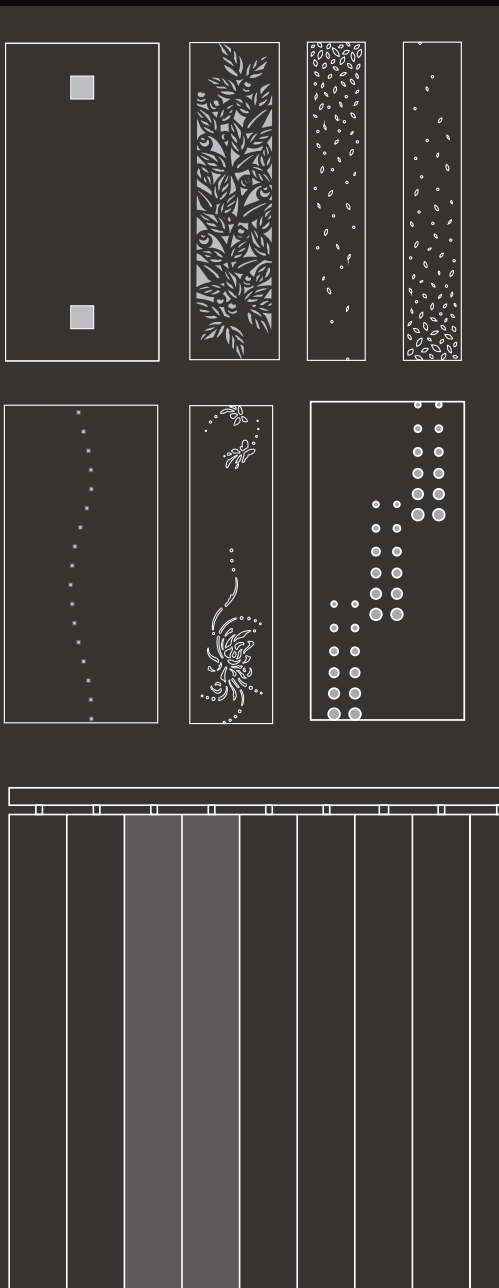


Vertical Blinds Product Manual







Vertical Blinds Product Manual



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Product Line-up

Product Name	DUAL	DUAL SHAPE										
Features	 <p>Standard type of Vertical Blinds. Widely available for ordinary windows and large sliding doors.</p>	 <p>A type, adding special cutting to both end of the Louvers. Widely available for ordinary windows and large sliding doors.</p>										
Louver Width	<p>100 mm / 80 mm</p> <p>*Corresponding Louver width differs by Louver.</p>	_____										
Allowable Size	<table border="1"> <tr> <td>Product Width</td> <td>300–4,000 mm (5,000 mm)</td> </tr> <tr> <td>Product Height</td> <td>500–6,000 mm</td> </tr> <tr> <td>Maximum Area</td> <td>12 m²</td> </tr> </table> <p>*Allowable size differs by Louver. *Headrail-to-floor height of wand type (option) is up to 3,000 mm. *() is the case of the jointed track.</p>	Product Width	300–4,000 mm (5,000 mm)	Product Height	500–6,000 mm	Maximum Area	12 m ²	<table border="1"> <tr> <td>Product Width</td> <td>300–4,000 mm (5,000 mm)</td> </tr> <tr> <td>Product Height</td> <td>500–3,000 mm</td> </tr> </table> <p>*Allowable size differs by design type. *Headrail-to-floor height of wand type (option) is up to 3,000 mm. *() is the case of the jointed track.</p>	Product Width	300–4,000 mm (5,000 mm)	Product Height	500–3,000 mm
Product Width	300–4,000 mm (5,000 mm)											
Product Height	500–6,000 mm											
Maximum Area	12 m ²											
Product Width	300–4,000 mm (5,000 mm)											
Product Height	500–3,000 mm											
DUAL with a Jointed Track	○	○										
Product Width: 2,010–5,000 mm												

Common to All Products

Parts Color

Standard



Part color: White
 *Sample image is cord & wand type.

Option

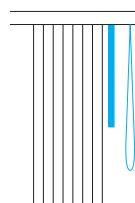


Part color: Brown
 *Sample image is cord & wand type.

Operation Method

Standard

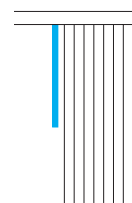
Cord & wand type



Opening and closing of the Louver is done in the Cord, and angle adjustment is done by the Operation Wand. Depending on the headrail-to-floor height, opening and closing of the Louver can be done by the Operation Wand.

Option

Wand type



Opening and closing of the Louver and the angle adjustment can be done only in the Operation Wand.
***The Jointed track is not available.**

DUAL with A Jointed Track

Product Width (W):
2,010–5,000 mm

*Allowable cord & wand type, split draw only.



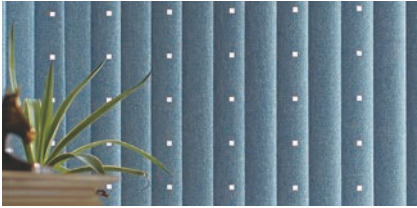
Jointed track part



Not a noticeable design from the front

It is a type that the Track has been divided into two pieces and you can connect them at construction sites. Easily to carry and construct, at a place where a long Track is impossible to carry by the elevator such as high-rise floors of apartments and buildings.

DUAL SEEZ



A type, adding laser cutting to the Louvers. Widely available for ordinary windows and large sliding doors.

100 mm / 80 mm

*Corresponding Louver width differs by design type.

Product Width	300–4,000 mm (5,000 mm)
Product Height	500–3,000 mm

*Allowable size differs by design type.

*Headrail-to-floor height of wand type (option) is up to 3,000 mm.

*() is the case of the jointed track.



DUAL OVERLAP



The wider type of the Louver's overlapping width. Widely available for ordinary windows and large sliding doors.

100 mm

Product Width	300–4,000 mm (5,000 mm)
Product Height	500–6,000 mm
Maximum Area	12 m ²

*Allowable size differs by Louver.

*Headrail-to-floor height of wand type (option) is up to 3,000 mm.

*() is the case of the jointed track.



Bottom Weight

Standard **Buckled type**



Bottom Weight Cover

Available to lengthen (maximum 3 cm) or shorten the Louver.

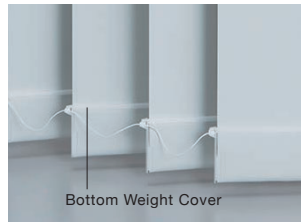
Option **French seam type**

No additional charge



*Do not correspond to DUAL SHAPE.

TF-6150–6159 **Buckled type**



Bottom Weight Cover

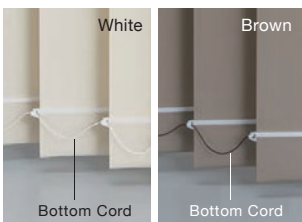
TF-6150–6159 **Heat welding type**

No additional charge



Bottom Cord

Standard **With Bottom Cord**



Bottom Cord

Bottom Cord

To reduce the flapping of Louver by wind.

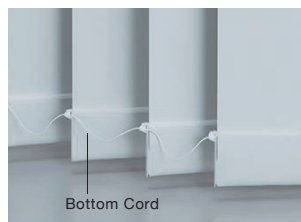
Option **Without Bottom Cord**

No additional charge



Because it does not use the Bottom Cord, it has a simpler appearance.

TF-6150–6159 **With Bottom Cord**



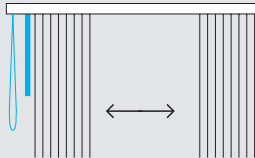
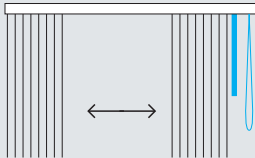
Bottom Cord

TF-6150–6159 **Without Bottom Cord**

No additional charge



Operation System

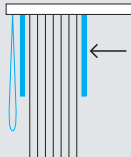
Operation Method	Specifications
<p>Cord & Wand Type (Standard)</p>  <p>Use the drive cord to open/close the Louver, and adjust the angle with the operation wand. The drive cord is useful for opening/closing wide windows.</p> <p>POINT DUAL allows you to "open a little" using Wand.</p> <p>The Cord & Wand Type can be opened/closed with just the wand without using a Cord. Easy to open/close so you can get in and out.</p> <p><i>*When the product height and installation height are 3,010 mm or more, the operation wand position is fixed, so opening/closing operations are not possible with the wand. Only the Louver angle adjustment can be operated with the Wand.</i></p> 	<p>One-way Draw</p> <p>1 Left side control, drawn to left</p>  <p>2 Right side control, drawn to right</p>  <p>3 Left side control, drawn to right</p>  <p>4 Right side control, drawn to left</p>  <p>At 3 and 4, with the opening/closing operation by the drive cord, the Operation Wand also moves with the Louver.</p> <p>Split Draw</p> <p>1 Left side control</p>  <p>2 Right side control</p>  <p><i>*At Split Draw, not possible to draw all Louvers on one side.</i></p> <p>Split Draw Jointed Track (Option)</p> <p>1 Left side control</p>  <p>2 Right side control</p>  <p><i>*At Split Draw Jointed Track, not possible to draw all Louvers on one side.</i></p>
<p>Wand Type</p> <p>No additional charge</p>  <p>Opening/closing and angle adjustment of the louver can be performed only with the operation wand. The operation method is simple. Because there is no drive code, the operation unit is compact and beautiful.</p> <p><i>*Not allowable if the product height and headrail-to-floor height are 3,010 mm or more. *Not allowable Jointed Track.</i></p>	<p>One-way Draw</p> <p>1 One side wand: left side control</p>  <p>2 One side wand: right side control</p>  <p><i>*Not possible to two one-way draw set side by side for center opening.</i></p>

Options

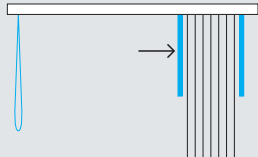
One-way Draw Operation Wand addition + 3,500 yen (excluding tax)

Additional charge

Drawn to left



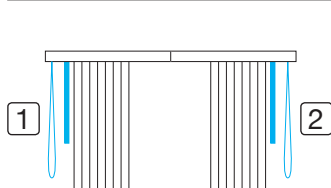
Drawn to right



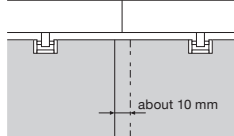
Drawn to opposition from both right and left sides by Operation Wand is possible.

**Not allowance if the product height and headrail-to-floor height are 3,010 mm or more.*

Two One-way Draw Set Side by Side for Center Opening (louver overlap type)



Overlapping dimensions when overlapping louvers



Two One-way Draw set side by side for center opening (louver overlap type) can be specified for the combination of two units,

①: One-way Draw/Left side control, drawn to left, and

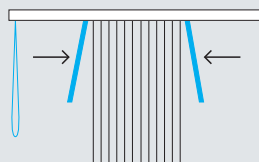
②: One-way Draw/Right side control, drawn to right.

**The product width of the multiple type is up to 4,000 mm.*

**Operation Wand cannot be added for the multiple type.*

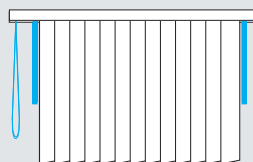
Split Draw Operation Wand addition + 3,500 yen (excluding tax)

Additional charge



Center drawn from left and right sides is possible by the Operation Wand.

**Not possible to draw all Louvers on one side.*



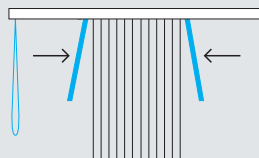
Angle adjustment is applied to all louvers.

**Left and right half separate angle adjustment is not possible.*

**Not allowance if the product height and headrail-to-floor height are 3,010 mm or more.*

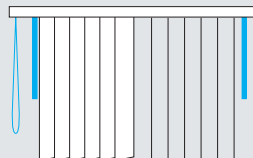
Split Draw 2-on-1 Head Rail + 3,500 yen (excluding tax)

Additional charge



Center drawn from left and right sides is possible by the Operation Wand.

**Not possible to draw all Louvers on one side.*



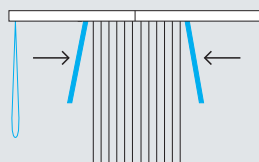
Angle adjustment is applied to the left and right louvers separately.

**Angle adjustment of all louvers is not possible.*

**Not allowance if the product height and headrail-to-floor height are 3,010 mm or more.*

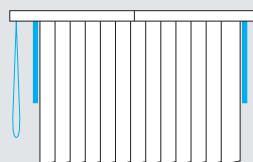
Split Draw Jointed Track Operation Wand addition + 3,500 yen (excluding tax)

Additional charge



Center drawn from left and right sides is possible by the Operation Wand.

**Not possible to draw all Louvers on one side.*



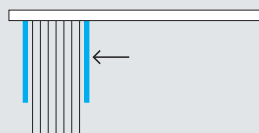
Angle adjustment is applied to all louvers.

**Left and right half separate angle adjustment is not possible.*

**Not allowance if the product height and headrail-to-floor height are 3,010 mm or more.*

Operation Wand addition + 3,500 yen (excluding tax)

Additional charge



**Not allowance if the product height and headrail-to-floor height are 3,010 mm or more.*

Options—Color Combination / Stripe Pattern

"Color Combination" that can be freely combined with louvers, and "Stripe Pattern" made with two colors of louvers. Take pleasure the distinctive stripe accents that the vertical blinds can make.



DUAL 100, Color Combination/
TF-6036, 6040



DUAL 100, Color Combination/ TF-6036, 6037, 6039, 6040

● Available Products

DUAL 100, DUAL 80, DUAL OVERLAP 100

● Available Series

All Louvers except TF-6163–6169

● Standard Parts Color

Standard color is white. Specify the optional color brown if you want to change.

*The bottom cord color is based on the leftmost louver color that is the base point (a). Specify if you require a change.

● Bottom Weight

Bottom Weight is the standard specification of each series.

● Conditions

- You should choose Louvers from the same series. (Not allowable a combination of different series)
- All Louver width is the same. (Not allowable a combination of different Louver width)
- The number of selectable colors is no limit for Color Combination.
- The number of selectable colors is two for Stripe Pattern.

● Price

Standard price of each product × 1.1 (tax excluded)

*Standard price multiplied by 1.1.

*Round off for less than 100 yen.



DUAL 100, Stripe Pattern 1:1 / TF-6089, 6096

For Color Combinations, available to create an image using the "DUAL Color Combination Simulator System" on our homepage.

► DUAL Color Combination Simulator System
<https://www.toso.jp/color-sim/dual/>



Color Combination

This is the type of combining two or more color Louvers in the same series. You are free to combine the pattern.

Combination Example

Gradation
Patterning of a similar color gradation

Color a

Accent
Adding accent color in a part

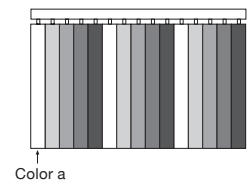
Color a

Free pattern
Arranging plural colors at random

Color a

How to Order

- Specify the total number of Louvers. (Ex.) 15 sheets
*As for the total number of Louvers, refer to the number of Louvers table in page 16.
Please note that the total number of Louvers will vary depending on the product type and size.
- Specify the Louver product number and quantity, of the base point (a) Louver and combining Louver.
(Ex.) TF-6001 (a) x3 sheets TF-6002x3 sheets TF-6003x3 sheets TF-6004x3 sheets TF-6005x3 sheets



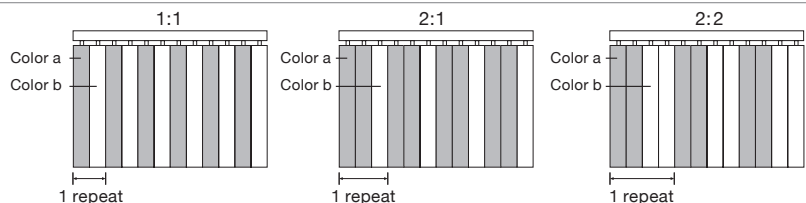
Stripe Pattern

This is the type that combines two colors of Louvers in the same series. Choose a combination pattern from three patterns below.

	Pattern 1:1	Pattern 2:1	Pattern 2:2
The number of Louvers is odd	<p>Color-a Color-b</p> <p>1 repeat</p> <p>[Color-a x1 Louver] + [Color-b x1 Louver]</p>	<p>Color-a Color-b</p> <p>1 repeat</p> <p>[Color-a x2 Louvers] + [Color-b x1 Louver]</p>	<p>Color-a Color-b</p> <p>1 repeat</p> <p>[Color-a x2 Louvers] + [Color-b x2 Louvers]</p>
The number of Louvers is even	<p>Color-a Color-b</p> <p>1 repeat</p> <p>[Color-a x1 Louver] + [Color-b x1 Louver]</p>	<p>Color-a Color-b</p> <p>1 repeat</p> <p>[Color-a x2 Louvers] + [Color-b x1 Louver]</p>	<p>Color-a Color-b</p> <p>1 repeat</p> <p>[Color-a x2 Louvers] + [Color-b x2 Louvers]</p>
Caution	<p>*Among two colors of Louvers, specify which color is "Color a". *All products start from the left side and "Color a".</p>	<p>*Among two colors of Louvers, specify which color is "Color a". *In both case the number of Louvers are odd or even, start from the left side and repeat every three Louvers. *All products start from the left side and "Color a".</p>	<p>*Among two colors of Louvers, specify which color is "Color a". (Only in the case of the total number is a multiple of 4, the number of each two colors are equal.) *In both case the number of Louvers are odd or even, start from the left side and repeat every three Louvers. *All products start from the left side and "Color a".</p>

How to Order

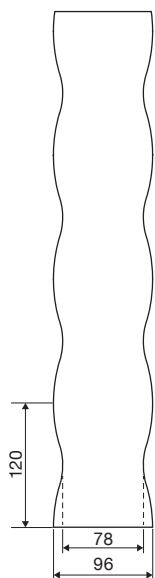
- Specify your pattern. (Ex.) 1:1
- Specify the Louver product number of the base point (a). (Ex.) 1a=TF-6001
- Specify the Louver product number (b) combining with the base point (a). (Ex.) b=TF-6002



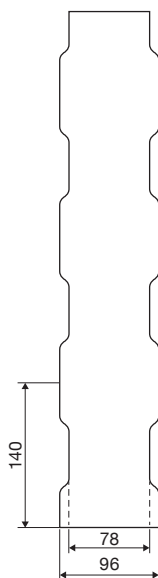
DUAL SHAPE—Design Type

DUAL SHAPE, designed both sides of the Louver.

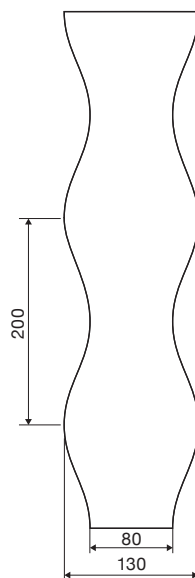
style A



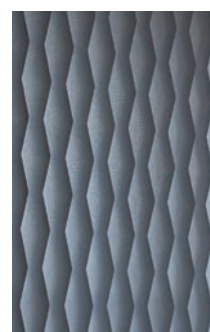
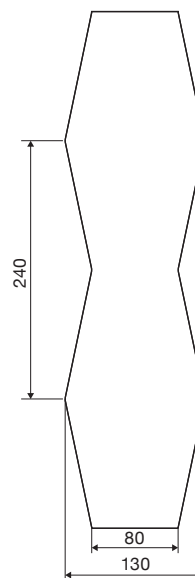
style B



style C


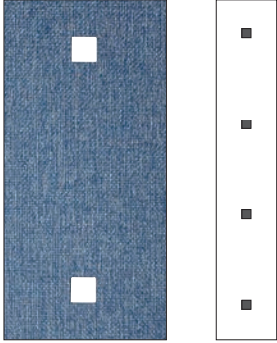
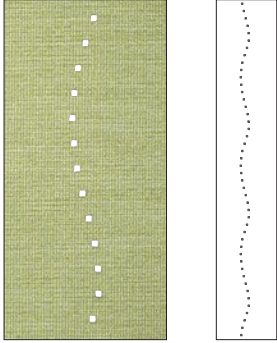
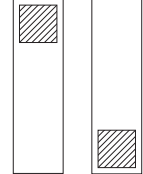
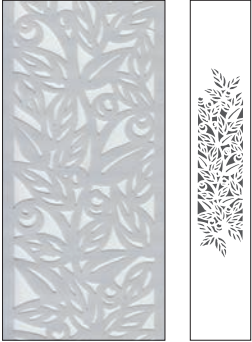

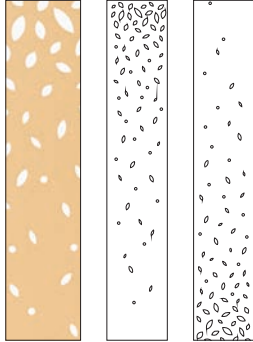
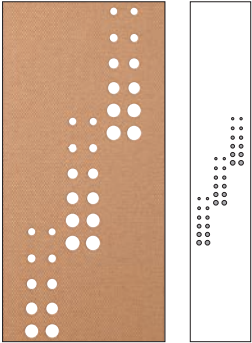
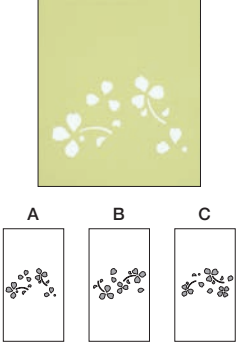



style D

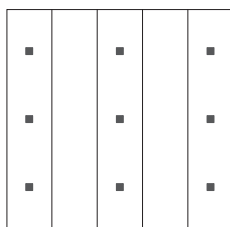


DUAL SEEZ—Design Type

DUAL SEEZ, cut out the design image by laser cutting.

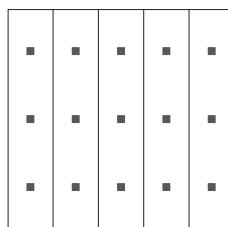
Type of Design	Design Line-up		
<p>Full Surface</p> <p>The vertical line of the louver is more dynamic.</p> 	<p>TYPE 03</p> 		<p>TYPE 07</p>  <p>Same design as Roller Blind, MYTEC SEEZ TYPE 01</p>
<p>Partial pattern</p> <p>Partial patterns accentuate the decoration of window.</p> <p>Selectable for the top and bottom of the pattern position.</p>  <p>Placed at the top Placed at the bottom</p>	<p>TYPE 09</p> 	<p>TYPE 13</p> 	<p>TYPE 18</p> <p>Placed at the top Placed at the bottom</p>  <p>Same design as Roller Blind, MYTEC SEEZ TYPE 10</p>
	<p>TYPE 19</p> 	<p>TYPE 20</p>  <p>A B C</p>	<p>TYPE 21</p> 

Alternate louvers



Laser cut louvers are alternately arranged.
*Not available for TYPE 19, 20

All louvers are laser cut

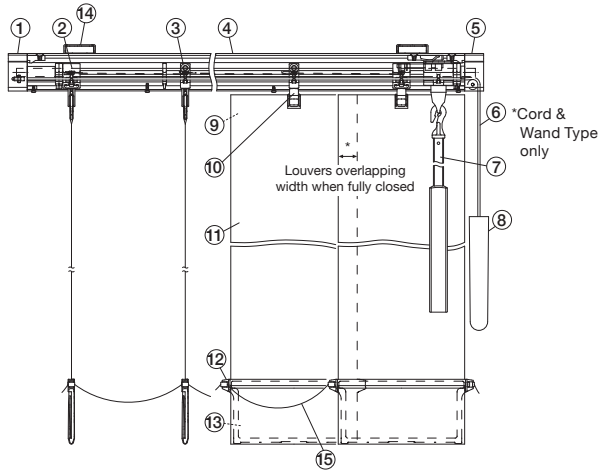


All louvers are laser cut.
*Not available for TYPE 21

Specifications and Structure

Product Overview

Front View: DUAL

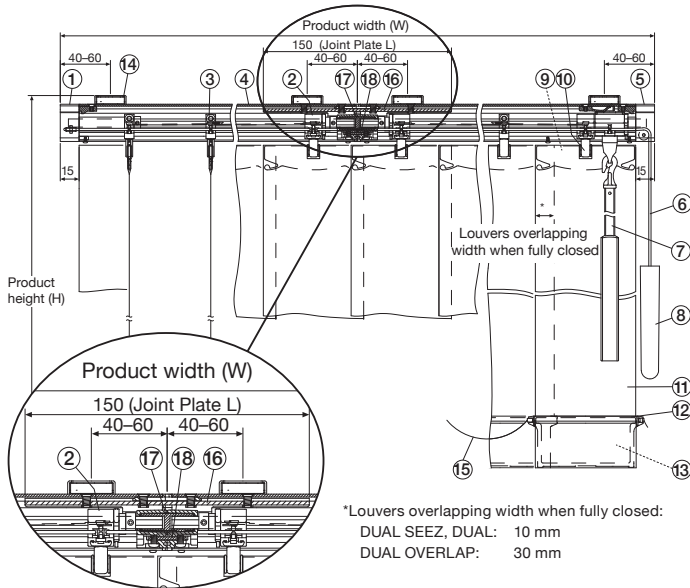


*Louvers overlapping width when fully closed:
 DUAL SEEZ, DUAL: 10 mm
 DUAL OVERLAP: 30 mm

Components and Materials

Components	Materials
① Idle End Cap	plastic molded
② Top Carrier	plastic molded
③ Carrier	plastic molded
④ Track	aluminum extrusion
⑤ Control End Cap	plastic molded
⑥ Drive Cord	synthetic fiber
⑦ Operation Wand	aluminum extrusion, plastic molded
⑧ Tension Weight	plastic molded, stainless steel press forming
⑨ Hanger	plastic molded
⑩ Louver Hanger	plastic molded
⑪ Louver	Materials differ depending on types.
⑫ Bottom Weight Cover	plastic molded
⑬ Bottom Weight	stainless steel press forming
⑭ Bracket	stainless steel press forming, plastic molded
⑮ Bottom Cord	plastic molded, synthetic fiber
⑯ Joint Plate L	stainless steel press forming
⑰ Shaft Joint	plastic molded
⑱ Joint Plate S	stainless steel press forming

Front View: DUAL Jointed Track

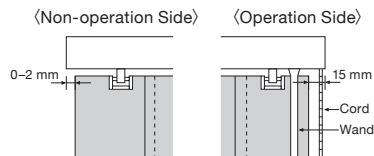


*Louvers overlapping width when fully closed:
 DUAL SEEZ, DUAL: 10 mm
 DUAL OVERLAP: 30 mm

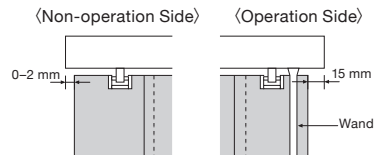
Gap Dimensions at Both Ends: DUAL

*When fully closed, the Louver on the operation side is slightly angled.
 *Refer to the left drawing for DUAL Jointed Track.

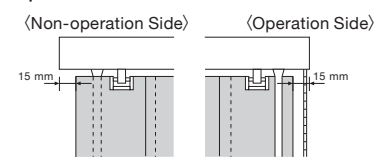
Cord & Wand Type



Wand Type



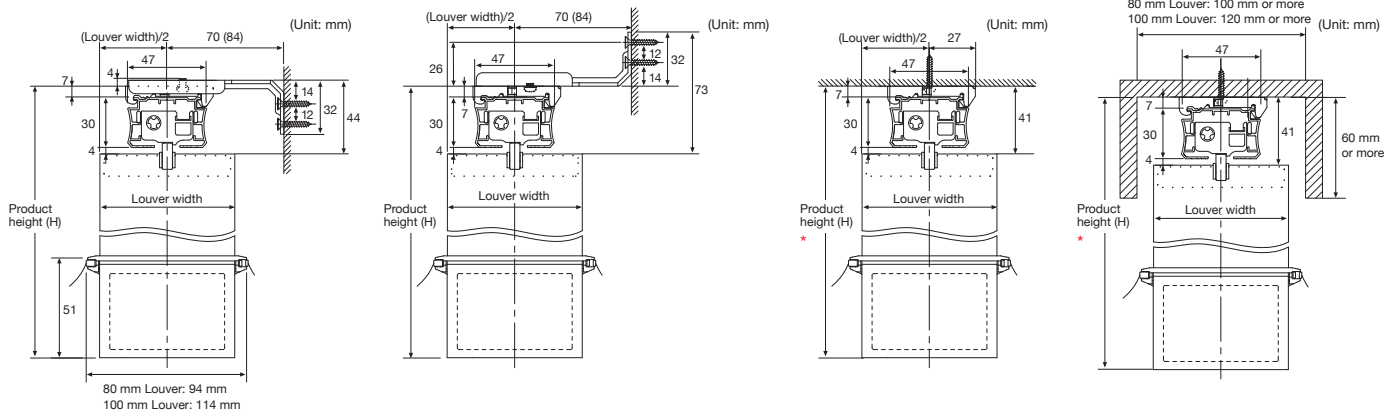
Option For the Wand on both sides



Side View

*In the case of direct ceiling installation, product height will be shorter 7 mm of the Bracket thickness.

*Product Height: from top of the Bracket to bottom of the Louver (not including the thickness of L-shaped aids for wall installation).



Wall installation (using L-shaped aids for wall installation)

Ceiling installation

If installing inside of the curtain box.

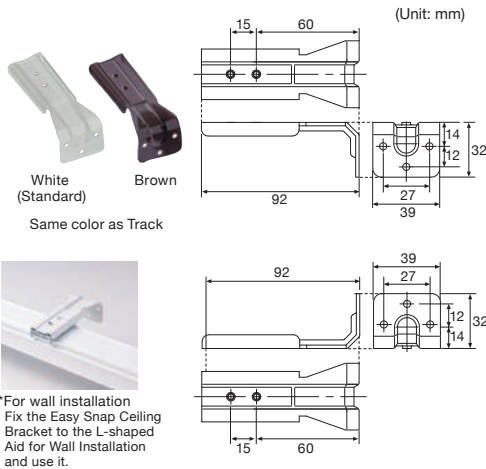
*Projection length of the L-shaped aids for wall installation is adjustable in two stages.

(Using Easy Snap Ceiling Bracket)

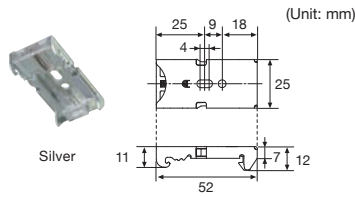
Accessory Components

*Specify ceiling or wall installation, when ordering. Brackets suitable for installation are included.

L-shaped Aids for Wall Installation

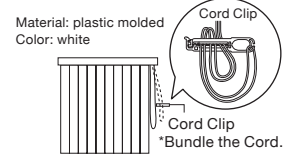


Easy Snap Ceiling Bracket



Cord Clip

This is a device for bundling the Cord. This device will reduce the risk of an accident by bundling it to keep out of children's reach.



Number of Brackets

DUAL

Product width (mm)	Number of Brackets
300-1,200	2
1,210-2,400	3
2,410-4,000	4

DUAL / Jointed Track

Product width (mm)	Number of Brackets
2,010-3,000	4
3,010-5,000	6

Allowable Size

	DUAL	DUAL / Jointed Track
Product width (W)	300-4,000 mm	2,010-5,000 mm
Product height (H)	500-6,000 mm	500-6,000 mm
Maximum area	12 m ² (In flat window conversion)	

*There are exceptions depending on the fabric series.

*Orderable for product width/height in 10 mm unit.

Product Weight

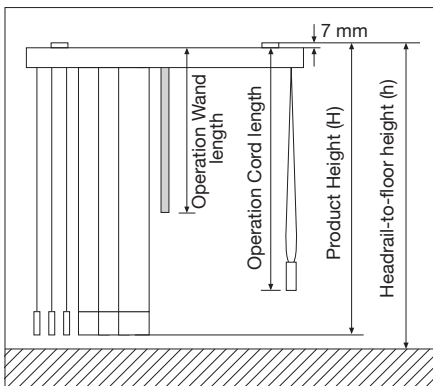
DUAL (In case TF-6001-6020)

Product width 2,000 mm × Product height 2,000 mm: 3.9 kg

DUAL Jointed Track (In case TF-6001-6020)

Product width 2,010 mm × Product height 2,000 mm: 4.02 kg

Operation Wand and Operation Cord Length



Headrail-to-floor height: from top of Bracket to floor

Product height: from top of Bracket to bottom of Louver

(not including the thickness of the L-shaped aids for wall installation).

Operation Wand length: from top of Track to bottom of wand

Operation Cord length: from top of Track to bottom of Tension Weight

Operation Cord Length

Product Height (H) or Headrail-to-floor Height (h)	Operation Cord Length
500-1,000 mm	Product Height (H) or Headrail-to-floor height (h)
1,010-1,600 mm	(H)-200 mm or (h)-200 mm
1,610-2,000 mm	(H)-400 mm or (h)-400 mm
2,010-6,000 mm	(H)-600 mm or (h)-600 mm

Operation Wand Length

Product Height (H) or Headrail-to-floor Height(h)	Operation Wand Length	Product Height (H) or Headrail-to-floor Height(h)	Operation Wand Length
500-1,600 mm	300 mm	3,810-4,000 mm	2,600 mm
1,610-2,000 mm	600 mm	4,010-4,200 mm	2,900 mm
2,010-2,300 mm	900 mm	4,210-4,600 mm	3,200 mm
2,310-2,600 mm	1,200 mm	4,610-4,900 mm	3,500 mm
2,610-2,900 mm	1,500 mm	4,910-5,200 mm	3,800 mm
2,910-3,200 mm	1,800 mm	5,210-5,500 mm	4,100 mm
3,210-3,500 mm	2,100 mm	5,510-5,800 mm	4,400 mm
3,510-3,800 mm	2,400 mm	5,810-6,000 mm	4,700 mm

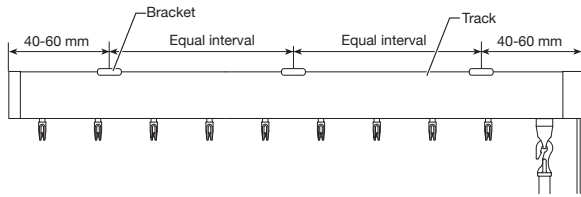
*If the headrail-to-floor height or product height is 4,010 mm or more, Operation Wand is joint type (one location).

Caution If you do not specify the headrail-to-floor height (h), the length of Operation Wand and Cord is determined by product height (H).

Installation Method

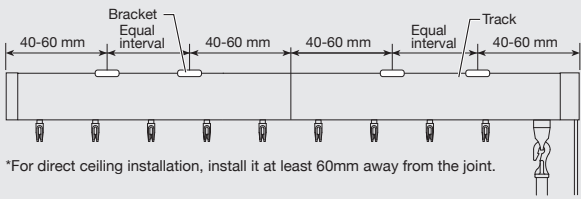
1 Bracket installation (Not necessary for direct ceiling attachment)

1. Install the Bracket in a position 40-60 mm inward from each end of the Track with avoiding the resin parts. If you use Brackets three or more, attach them to be equal intervals.



For DUAL Jointed Track

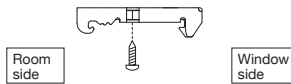
1. Install the Bracket in a position 40-60 mm inward from each end of the Track with avoiding the resin parts. If you use Brackets six, attach them to be equal intervals between the end of the Track and the Joint.



2. Fit the Bracket with accompanying screws ($\phi 3.5 \times 20$).

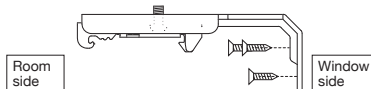
Ceiling installation

Required one screw for one Bracket.



Wall installation

Required three screws for one Bracket.

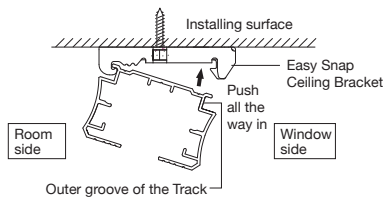


2 Installing the Track

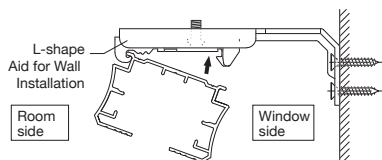
In the case of attaching on the Bracket

- 1) Hang the Track on the temporal hook of each Bracket.
- 2) Push in the main unit until it clicks into place.

Ceiling installation



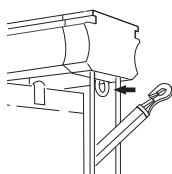
Wall installation



3 Operation Wand installation

Hang the Operation Wand on the ring of the Track.

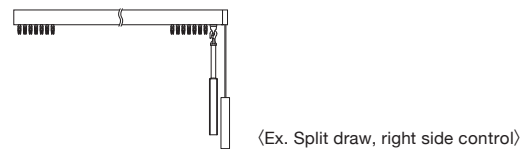
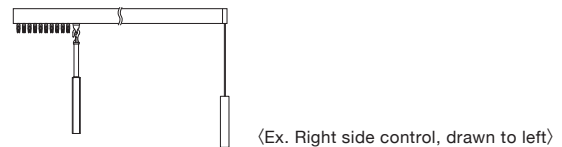
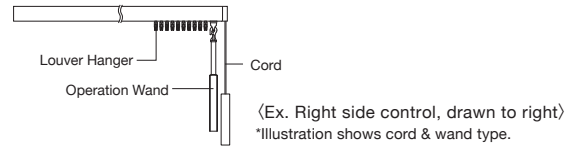
*For installation height 4,010 mm or more, Operation Wand is joint type. After installation the Wand without the grip to the Track, hook the Wand with the grip and join it.



4 Installing the Louver

1. Gather Louver Hangers on one side. In the case of split draw, gather on both sides.

*In the case of left operation, illustration is reversed and the positional relationship is opposite.
*DUAL Jointed Track is split draw only.

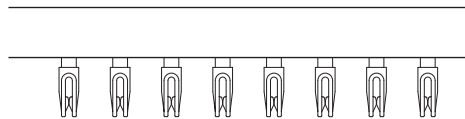


2. Rotate the Operation Wand, and adjust in a state of Louver Hangers at right angles with the Track.

*If you attach Louvers without doing Louver Hangers in the right angle of Track, Louvers might not rotate property.

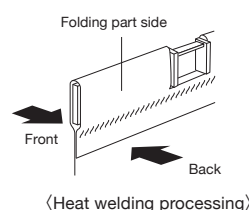
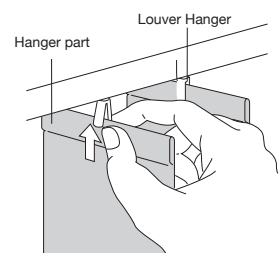
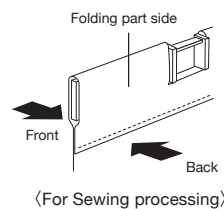
*If the Louver Hanger is not right angle, align it at right angle.

*Do not manually adjust the angle of the Louver Hanger. It may cause a failure.



3. Align the front and back side of the Louver in the same direction, and insert the hanger part from below to Louver Hanger.

*If the front and back of the louver are not aligned, remove the louver once and reinstall it.
*Do not manually adjust the angle of the Louver Hanger. It may cause a failure.

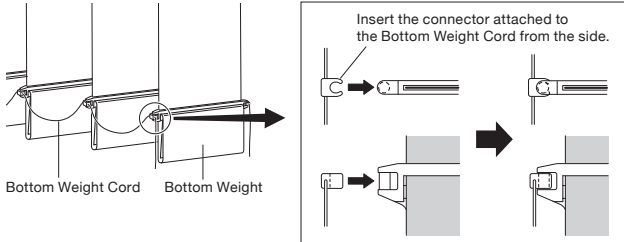


5 Bottom Weight Cord installation

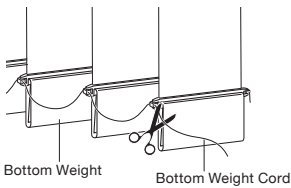
1. Rotate the Operation Wand, and adjust in a state of Louver at right angles with the Track. Insert the connector of the Bottom Weight Cord from the side into the holes on both sides of each Bottom Weight.

*Be sure to start with the Bottom Weight and Bottom Weight Cord at the end.

*Be careful not to twist the Bottom Weight Cord.

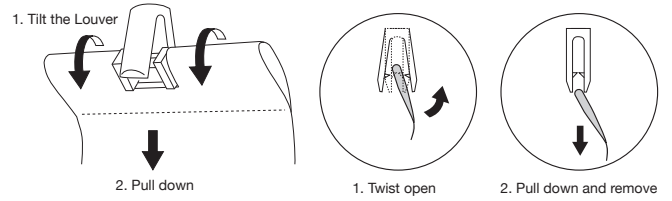


2. When the Bottom Weight Cords have been inserted into both ends of all the Bottom Weights, cut off the excess cords at both ends.



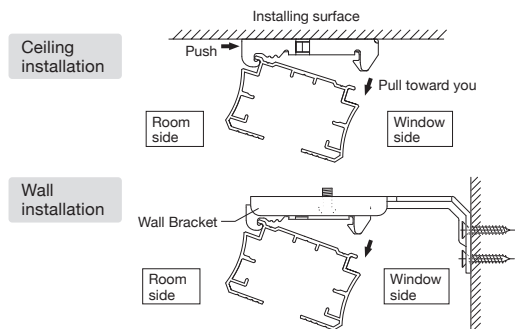
6 Removing the Louver

1. Hold the hanger and tilt it slightly. Note that the hook may be deformed if tilted too much.
2. Remove the Louver by pulling down.



7 Removing the Track (For attaching on the Bracket)

1. While pressing the release button of the Bracket, pull it toward you.
2. Remove the main unit from the temporal hook.



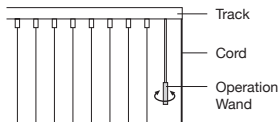
Operation Method

■ Cord & Wand Type

● Angle adjustment of the Louver (rotation)

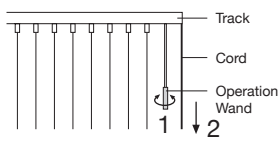
Adjust the Operation Wand with rotating.

*If the angle of the Louver is irregular, they will return to the normal position, once you have all the Louver to the fully closed state and rotate the Operation Wand again.



● Opening and closing of the Louver (Cord operation)

1. Rotate the Operation Wand, and adjust Louvers at right angles with the Track.
2. Pull the Cord downward, and release the hand at the position where you want to stop.

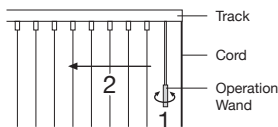


*Pull the Cord slowly. If you pull the Cord with a strong force, Louvers move vigorously, unevenness occurs in Louvers, Louvers will not be closed tidy. In addition, when the Operation Wand is sliding, it swings and sometimes hurts the window glass and wall, so pay attention to your operation.

● Opening and closing of the Louver (Wand operation)

*If the headrail-to-floor height is 3,010 mm or more, it is impossible to open and close the Louver by wand operation.

1. Rotate the Operation Wand, and adjust Louvers at right angles with the Track.
2. Slide the Operation Wand, and release the hand at the position where you want to stop.



*Slide the Operation Wand slowly. If you slide the Operation Wand with a strong force, Louvers move vigorously, unevenness occurs in Louvers, Louvers will not be closed tidy.

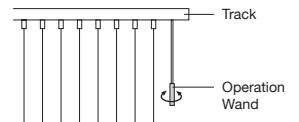
*Do not operate the wand in a state of which Louvers are folded up.

■ Wand Type *Do not correspond to the jointed track.

● Angle adjustment of the Louver (rotation)

Adjust the Operation Wand with rotating.

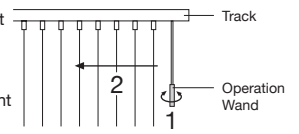
*If the angle of the Louver is irregular, they will return to the normal position, once you have all the Louver to the fully closed state and rotate the Operation Wand again.



● Opening and closing of the Louver (Wand operation)

*If the headrail-to-floor height is 3,010 mm or more, it is impossible to open and close the Louver by Wand operation.

1. Rotate the Operation Wand, and adjust Louvers at right angles with the Track.
2. Slide the Operation Wand, and release the hand at the position where you want to stop.



*Slide the Operation Wand slowly. If you slide the Operation Wand with a strong force, Louvers move vigorously, unevenness occurs in Louvers, Louvers will not be closed tidy.

*Do not operate the wand in a state of which Louvers are folded up.

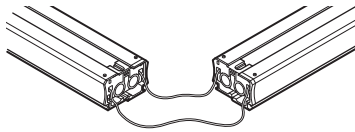


Caution

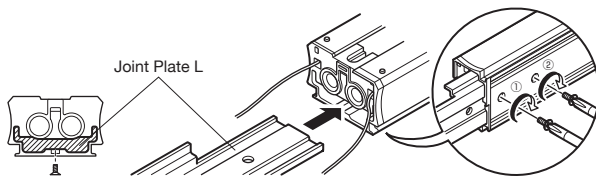
Because it causes the trouble, be sure to open and close Louvers in a state that Louvers are at right angle with the Track.

The Joint Track Installation Method

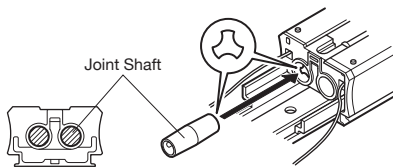
- 1** Face the joint portion of the Track each other, so as not to tangled the Cord.



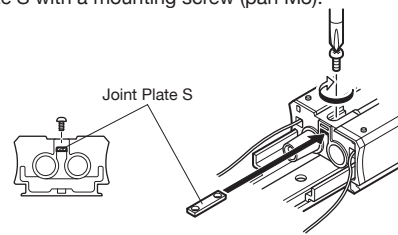
- 2** Insert the Joint Plate L on one side of the Track, and fix with the Joint Plate L mounting screws (special countersunk M4).
*Be sure to fix with two screws.



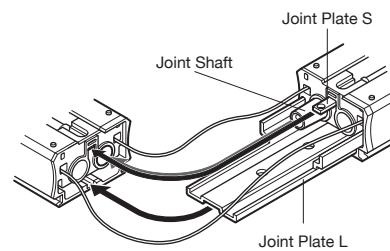
- 3** Insert the Joint Shaft into the hole in which the shaft is connected, and fit to the tip of shaft.



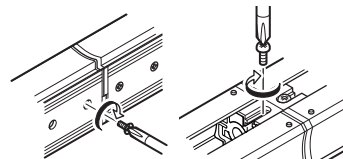
- 4** Plug the Joint Plate S into the hole in the figure, and fix the Joint Plate S with a mounting screw (pan M3).



- 5** Insert the Joint Plate L/S, and Joint Shaft to each holes of the opposite side of the Track, so as not to pinch the Cord.



- 6** Make sure that there is no gap in the joint portion, fix the Joint Plate L with two of mounting screws (special countersunk M4) and Joint Plate S with a mounting screw (pan M3).



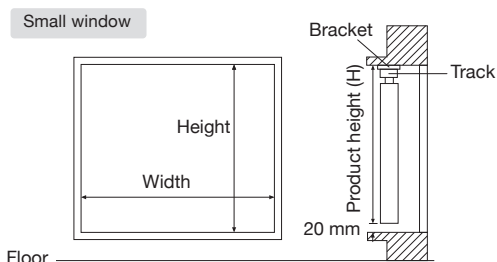
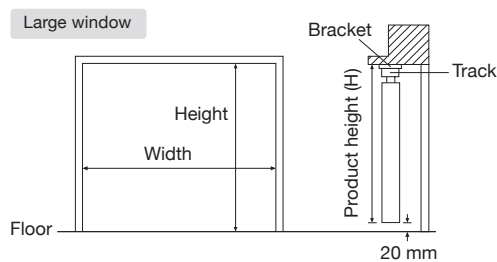
How to Take Measurements

■ When installing inside window frame (Ceiling installation)

- Product width is subtracted 10 mm from actual inside width of window frame.
- Product height is subtracted 20 mm from actual inside height of window height.
- If you are installing the product on the inner side of the curtain box, product width is subtracted about 10 mm of the inside width of the box. Product height is subtract about 20 mm of the inside height of the box from the top to the floor.

*In the case of direct ceiling installation, product height will be shorter 7 mm of the Bracket thickness.

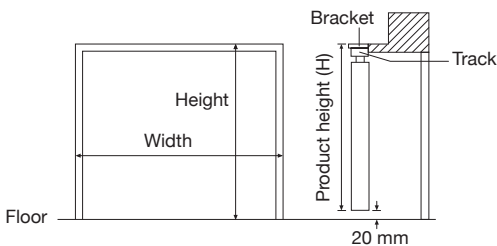
*In the case like a right figure, refer to page 11 about the length of Operation Wand, and Cord.



■ When installing outside (front side) window frame (Wall installation)

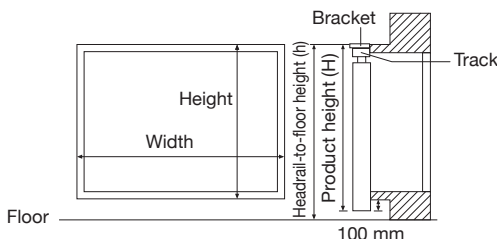
● Large window

- Product width should be the same as the outside width of the window frame. If you want to install larger than window frame, product width should be more longer 100 mm on both sides than the outside width of window frame.
- Product height should be subtracted about 20 mm from the headrail-to-floor height.



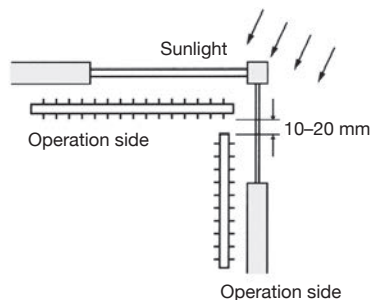
● Small window

- Product width should be the same as the outside width of the window frame. If you want to install larger than window frame, product width should be more longer 100 mm on both sides than the outside width of window frame.
- Product height should be longer about 100 mm than the dimension from headrail to bottom of the window frame.
- Be aware that, if not specified, the Operation Wand and Cord lengths may be short.



■ When installing on the corner

Product width of the side where the sunlight enters, should be longer.



Number of Louvers Table

DUAL 100

(Unit: mm)

One-way Draw (Including Wand Type, excluding Two One-way Draw Set Side by Side for Center Opening Type)		One-way Draw (Two One-way Draw Set Side by Side for Center Opening Type)		Split Draw (excluding Jointed Track)		Split Draw (Jointed Track)	
Product Width (mm)	Number of Louver	Product Width (mm)	Number of Louver	Product Width (mm)	Number of Louver	Product Width (mm)	
300- 380	4	300- 370	4	300- 380	4		
390- 470	5	380- 460	5		5		
480- 560	6	470- 550	6	390- 560	6		
570- 650	7	560- 640	7		7		
660- 740	8	650- 730	8	570- 740	8		
750- 830	9	740- 820	9		9		
840- 920	10	830- 910	10	750- 920	10		
930- 1,010	11	920- 1,000	11		11		
1,020- 1,100	12	1,010- 1,090	12	930- 1,100	12		
1,110- 1,190	13	1,100- 1,180	13		13		
1,200- 1,280	14	1,190- 1,270	14	1,110- 1,280	14		
1,290- 1,370	15	1,280- 1,360	15		15		
1,380- 1,460	16	1,370- 1,450	16	1,290- 1,460	16		
1,470- 1,550	17	1,460- 1,540	17		17		
1,560- 1,640	18	1,550- 1,630	18	1,470- 1,640	18		
1,650- 1,730	19	1,640- 1,720	19		19		
1,740- 1,820	20	1,730- 1,810	20	1,650- 1,820	20		
1,830- 1,910	21	1,820- 1,900	21		21		
1,920- 2,000	22	1,910- 1,990	22	1,830- 2,000	22	2,010-	
2,010- 2,090	23	2,000- 2,080	23		23		
2,100- 2,180	24	2,090- 2,170	24	2,010- 2,180	24	2,020- 2,190	
2,190- 2,270	25	2,180- 2,260	25		25		
2,280- 2,360	26	2,270- 2,350	26	2,190- 2,360	26	2,200- 2,370	
2,370- 2,440	27	2,360- 2,440	27		27		
2,450- 2,530	28	2,450- 2,530	28	2,370- 2,530	28	2,380- 2,550	
2,540- 2,620	29	2,540- 2,620	29		29		
2,630- 2,710	30	2,630- 2,710	30	2,540- 2,710	30	2,560- 2,730	
2,720- 2,800	31	2,720- 2,800	31		31		
2,810- 2,890	32	2,810- 2,890	32	2,720- 2,890	32	2,740- 2,910	
2,900- 2,980	33	2,900- 2,980	33		33		
2,990- 3,070	34	2,990- 3,070	34	2,900- 3,070	34	2,920- 3,090	
3,080- 3,160	35	3,080- 3,160	35		35		
3,170- 3,250	36	3,170- 3,250	36	3,080- 3,250	36	3,100- 3,270	
3,260- 3,340	37	3,260- 3,340	37		37		
3,350- 3,430	38	3,350- 3,430	38	3,260- 3,430	38	3,280- 3,450	
3,440- 3,520	39	3,440- 3,520	39		39		
3,530- 3,610	40	3,530- 3,610	40	3,440- 3,610	40	3,460- 3,630	
3,620- 3,700	41	3,620- 3,700	41		41		
3,710- 3,790	42	3,710- 3,790	42	3,620- 3,790	42	3,640- 3,810	
3,800- 3,880	43	3,800- 3,880	43		43		
3,890- 3,970	44	3,890- 3,970	44	3,800- 3,970	44	3,820- 3,990	
3,980- 4,000	45	3,980- 4,000	45		45		
			46	3,980- 4,000	46	4,000- 4,170	
					47		
					48	4,180- 4,350	
					49		
					50	4,360- 4,530	
					51		
					52	4,540- 4,710	
					53		
					54	4,720- 4,880	
					55		
					56	4,890- 5,000	

*For product width of 4,010 mm or more, Jointed Track.

DUAL 80

(Unit: mm)

One-way Draw (Including Wand Type, excluding Two One-way Draw Set Side by Side for Center Opening Type)		One-way Draw (Two One-way Draw Set Side by Side for Center Opening Type)		Split Draw (excluding Jointed Track)		Split Draw (Jointed Track)	
Product Width (mm)	Number of Louver	Product Width (mm)	Number of Louver	Product Width (mm)	Number of Louver	Product Width (mm)	
300-	4		4	300-	4		
310- 370	5	300- 360	5		5		
380- 440	6	370- 430	6	310- 440	6		
450- 510	7	440- 500	7		7		
520- 580	8	510- 570	8	450- 580	8		
590- 650	9	580- 640	9		9		
660- 720	10	650- 710	10	590- 720	10		
730- 790	11	720- 780	11		11		
800- 860	12	790- 850	12	730- 860	12		
870- 930	13	860- 920	13		13		
940- 1,000	14	930- 990	14	870- 1,000	14		
1,010- 1,070	15	1,000- 1,060	15		15		
1,080- 1,140	16	1,070- 1,130	16	1,010- 1,140	16		
1,150- 1,210	17	1,140- 1,200	17		17		
1,220- 1,280	18	1,210- 1,270	18	1,150- 1,280	18		
1,290- 1,350	19	1,280- 1,340	19		19		
1,360- 1,420	20	1,350- 1,410	20	1,290- 1,420	20		
1,430- 1,490	21	1,420- 1,480	21		21		
1,500- 1,560	22	1,490- 1,550	22	1,430- 1,560	22		
1,570- 1,630	23	1,560- 1,620	23		23		
1,640- 1,700	24	1,630- 1,690	24	1,570- 1,700	24		
1,710- 1,770	25	1,700- 1,760	25		25		
1,780- 1,840	26	1,770- 1,830	26	1,710- 1,840	26		
1,850- 1,900	27	1,840- 1,900	27		27		
1,910- 1,970	28	1,910- 1,970	28	1,850- 1,970	28		
1,980- 2,040	29	1,980- 2,040	29		29		
2,050- 2,110	30	2,050- 2,110	30	1,980- 2,110	30	2,010- 2,130	
2,120- 2,180	31	2,120- 2,180	31		31		
2,190- 2,250	32	2,190- 2,250	32	2,120- 2,250	32	2,140- 2,270	
2,260- 2,320	33	2,260- 2,320	33		33		
2,330- 2,390	34	2,330- 2,390	34	2,260- 2,390	34	2,280- 2,410	
2,400- 2,460	35	2,400- 2,460	35		35		
2,470- 2,530	36	2,470- 2,530	36	2,400- 2,530	36	2,420- 2,550	
2,540- 2,600	37	2,540- 2,600	37		37		
2,610- 2,670	38	2,610- 2,670	38	2,540- 2,670	38	2,560- 2,690	
2,680- 2,740	39	2,680- 2,740	39		39		
2,750- 2,810	40	2,750- 2,810	40	2,680- 2,810	40	2,700- 2,830	
2,820- 2,880	41	2,820- 2,880	41		41		
2,890- 2,950	42	2,890- 2,950	42	2,820- 2,950	42	2,840- 2,970	
2,960- 3,020	43	2,960- 3,020	43		43		
3,030- 3,090	44	3,030- 3,090	44	2,960- 3,090	44	2,980- 3,110	
3,100- 3,160	45	3,100- 3,160	45		45		
3,170- 3,230	46	3,170- 3,230	46	3,100- 3,230	46	3,120- 3,250	
3,240- 3,300	47	3,240- 3,300	47		47		
3,310- 3,370	48	3,310- 3,370	48	3,240- 3,370	48	3,260- 3,390	
3,380- 3,440	49	3,380- 3,440	49		49		
3,450- 3,510	50	3,450- 3,510	50	3,380- 3,510	50	3,400- 3,530	
3,520- 3,580	51	3,520- 3,580	51		51		
3,590- 3,650	52	3,590- 3,640	52	3,520- 3,650	52	3,540- 3,670	
3,660- 3,720	53	3,650- 3,710	53		53		
3,730- 3,790	54	3,720- 3,780	54	3,660- 3,790	54	3,680- 3,800	
3,800- 3,860	55	3,790- 3,850	55		55		
3,870- 3,930	56	3,860- 3,920	56	3,800- 3,930	56	3,810- 3,940	
3,940- 4,000	57	3,930- 3,990	57		57		
	58	4,000	58	3,940- 4,000	58	3,950- 4,080	
					59		
					60	4,090- 4,220	
					61		
					62	4,230- 4,360	
					63		
					64	4,370- 4,500	
					65		
					66	4,510- 4,640	
					67		
					68	4,650- 4,780	
					69		
					70	4,790- 4,920	
					71		
					72	4,930- 5,000	

*For product width of 4,010 mm or more, Jointed Track.

DUAL OVERLAP 100 and DUAL SHAPE

(Unit: mm)

One-way Draw (Including Wand Type, excluding Two One-way Draw Set Side by Side for Center Opening Type)		One-way Draw (Two One-way Draw Set Side by Side for Center Opening Type)		Split Draw (excluding Jointed Track)		Split Draw (Jointed Track)	
Product Width (mm)	Number of Louver	Product Width (mm)	Number of Louver	Product Width (mm)	Number of Louver	Product Width (mm)	
300- 320	4	300-	4	300- 320	4		
330- 390	5	310- 370	5		5		
400- 460	6	380- 440	6	330- 460	6		
470- 530	7	450- 510	7		7		
540- 600	8	520- 580	8	470- 600	8		
610- 670	9	590- 650	9		9		
680- 740	10	660- 720	10	610- 740	10		
750- 810	11	730- 790	11		11		
820- 880	12	800- 860	12	750- 880	12		
890- 950	13	870- 930	13		13		
960- 1,020	14	940- 1,000	14	890- 1,020	14		
1,030- 1,090	15	1,010- 1,070	15		15		
1,100- 1,160	16	1,080- 1,140	16	1,030- 1,160	16		
1,170- 1,230	17	1,150- 1,210	17		17		
1,240- 1,300	18	1,220- 1,280	18	1,170- 1,300	18		
1,310- 1,370	19	1,290- 1,350	19		19		
1,380- 1,440	20	1,360- 1,420	20	1,310- 1,440	20		
1,450- 1,510	21	1,430- 1,490	21		21		
1,520- 1,580	22	1,500- 1,560	22	1,450- 1,580	22		
1,590- 1,650	23	1,570- 1,630	23		23		
1,660- 1,720	24	1,640- 1,700	24	1,590- 1,720	24		
1,730- 1,790	25	1,710- 1,770	25		25		
1,800- 1,860	26	1,780- 1,840	26	1,730- 1,860	26		
1,870- 1,920	27	1,850- 1,910	27		27		
1,930- 1,990	28	1,920- 1,980	28	1,870- 1,990	28	2,010-	
2,000- 2,060	29	1,990- 2,050	29		29		
2,070- 2,130	30	2,060- 2,120	30	2,000- 2,130	30	2,020- 2,150	
2,140- 2,200	31	2,130- 2,190	31		31		
2,210- 2,270	32	2,200- 2,260	32	2,140- 2,270	32	2,160- 2,290	
2,280- 2,340	33	2,270- 2,330	33		33		
2,350- 2,410	34	2,340- 2,400	34	2,280- 2,410	34	2,300- 2,430	
2,420- 2,480	35	2,410- 2,470	35		35		
2,490- 2,550	36	2,480- 2,540	36	2,420- 2,550	36	2,440- 2,570	
2,560- 2,620	37	2,550- 2,610	37		37		
2,630- 2,690	38	2,620- 2,680	38	2,560- 2,690	38	2,580- 2,710	
2,700- 2,760	39	2,690- 2,750	39		39		
2,770- 2,830	40	2,760- 2,820	40	2,700- 2,830	40	2,720- 2,850	
2,840- 2,900	41	2,830- 2,890	41		41		
2,910- 2,970	42	2,900- 2,960	42	2,840- 2,970	42	2,860- 2,990	
2,980- 3,040	43	2,970- 3,030	43		43		
3,050- 3,110	44	3,040- 3,100	44	2,980- 3,110	44	3,000- 3,130	
3,120- 3,180	45	3,110- 3,170	45		45		
3,190- 3,250	46	3,180- 3,240	46	3,120- 3,250	46	3,140- 3,270	
3,260- 3,320	47	3,250- 3,310	47		47		
3,330- 3,390	48	3,320- 3,380	48	3,260- 3,390	48	3,280- 3,410	
3,400- 3,460	49	3,390- 3,450	49		49		
3,470- 3,530	50	3,460- 3,520	50	3,400- 3,530	50	3,420- 3,550	
3,540- 3,600	51	3,530- 3,590	51		51		
3,610- 3,670	52	3,600- 3,650	52	3,540- 3,670	52	3,560- 3,690	
3,680- 3,740	53	3,660- 3,720	53		53		
3,750- 3,810	54	3,730- 3,790	54	3,680- 3,810	54	3,700- 3,820	
3,820- 3,880	55	3,800- 3,860	55		55		
3,890- 3,950	56	3,870- 3,930	56	3,820- 3,950	56	3,830- 3,960	
3,960- 4,000	57	3,940- 4,000	57		57		
			58	3,960- 4,000	58	3,970- 4,100	
					59		
					60	4,110- 4,240	
					61		
					62	4,250- 4,380	
					63		
					64	4,390- 4,520	
					65		
					66	4,530- 4,660	
					67		
					68	4,670- 4,800	
					69		
					70	4,810- 4,940	
					71		
					72	4,950- 5,000	

*For product width of 4,010 mm or more, Jointed Track.

DUAL 100 / Wand on Both Sides

(Unit: mm)

One-way Draw (Including Wand Type)		Split Draw (Split Draw 2-on-1 Head Rail)
Product Width (mm)	Number of Louver	Product Width (mm)
300-	3	
310- 390	4	300- 390
400- 480	5	
490- 570	6	400- 570
580- 660	7	
670- 750	8	580- 750
760- 840	9	
850- 930	10	760- 930
940- 1,020	11	
1,030- 1,110	12	940- 1,110
1,120- 1,200	13	
1,210- 1,290	14	1,120- 1,290
1,300- 1,380	15	
1,390- 1,470	16	1,300- 1,470
1,480- 1,560	17	
1,570- 1,650	18	1,480- 1,650
1,660- 1,740	19	
1,750- 1,830	20	1,660- 1,830
1,840- 1,920	21	
1,930- 2,010	22	1,840- 2,010
2,020- 2,100	23	
2,110- 2,190	24	2,020- 2,190
2,200- 2,280	25	
2,290- 2,370	26	2,200- 2,370
2,380- 2,460	27	
2,470- 2,550	28	2,380- 2,550
2,560- 2,640	29	
2,650- 2,730	30	2,560- 2,730
2,740- 2,820	31	
2,830- 2,910	32	2,740- 2,910
2,920- 3,000	33	
3,010- 3,090	34	2,920- 3,090
3,100- 3,180	35	
3,190- 3,270	36	3,100- 3,270
3,280- 3,360	37	
3,370- 3,450	38	3,280- 3,450
3,460- 3,540	39	
3,550- 3,630	40	3,460- 3,630
3,640- 3,720	41	
3,730- 3,810	42	3,640- 3,810
3,820- 3,900	43	
3,910- 3,990	44	3,820- 3,990
4,000	45	
	46	4,000- 4,170
	47	
	48	4,180- 4,350
	49	
	50	4,360- 4,530
	51	
	52	4,540- 4,710
	53	
	54	4,720- 4,880
	55	
	56	4,890- 5,000

DUAL 80 / Wand on Both Sides

(Unit: mm)

One-way Draw (Including Wand Type)		Split Draw (Split Draw 2-on-1 Head Rail)
Product Width (mm)	Number of Louver	Product Width (mm)
300- 310	4	300- 310
320- 380	5	
390- 450	6	320- 450
460- 520	7	
530- 590	8	460- 590
600- 660	9	
670- 730	10	600- 730
740- 800	11	
810- 870	12	740- 870
880- 940	13	
950- 1,010	14	880- 1,010
1,020- 1,080	15	
1,090- 1,150	16	1,020- 1,150
1,160- 1,220	17	
1,230- 1,290	18	1,160- 1,290
1,300- 1,360	19	
1,370- 1,430	20	1,300- 1,430
1,440- 1,500	21	
1,510- 1,570	22	1,440- 1,570
1,580- 1,640	23	
1,650- 1,710	24	1,580- 1,710
1,720- 1,780	25	
1,790- 1,850	26	1,720- 1,850
1,860- 1,920	27	
1,930- 1,990	28	1,860- 1,990
2,000- 2,060	29	
2,070- 2,130	30	2,000- 2,130
2,140- 2,200	31	
2,210- 2,270	32	2,140- 2,270
2,280- 2,340	33	
2,350- 2,410	34	2,280- 2,410
2,420- 2,480	35	
2,490- 2,550	36	2,420- 2,550
2,560- 2,620	37	
2,630- 2,690	38	2,560- 2,690
2,700- 2,760	39	
2,770- 2,830	40	2,700- 2,830
2,840- 2,900	41	
2,910- 2,970	42	2,840- 2,970
2,980- 3,040	43	
3,050- 3,110	44	2,980- 3,110
3,120- 3,180	45	
3,190- 3,250	46	3,120- 3,250
3,260- 3,320	47	
3,330- 3,390	48	3,260- 3,390
3,400- 3,460	49	
3,470- 3,530	50	3,400- 3,530
3,540- 3,600	51	
3,610- 3,660	52	3,540- 3,670
3,670- 3,730	53	
3,740- 3,800	54	3,680- 3,800
3,810- 3,870	55	
3,880- 3,940	56	3,810- 3,940
3,950- 4,000	57	

DUAL Overlap 100 / Wand on Both Sides

(Unit: mm)

One-way Draw (Including Wand Type)		Split Draw (Split Draw 2-on-1 Head Rail)
Product Width (mm)	Number of Louver	Product Width (mm)
300- 330	4	300- 330
340- 400	5	
410- 470	6	340- 470
480- 540	7	
550- 610	8	480- 610
620- 680	9	
690- 750	10	620- 750
760- 820	11	
830- 890	12	760- 890
900- 960	13	
970- 1,030	14	900- 1,030
1,040- 1,100	15	
1,110- 1,170	16	1,040- 1,170
1,180- 1,240	17	
1,250- 1,310	18	1,180- 1,310
1,320- 1,380	19	
1,390- 1,450	20	1,320- 1,450
1,460- 1,520	21	
1,530- 1,590	22	1,460- 1,590
1,600- 1,660	23	
1,670- 1,730	24	1,600- 1,730
1,740- 1,800	25	
1,810- 1,870	26	1,740- 1,870
1,880- 1,940	27	
1,950- 2,010	28	1,880- 2,010
2,020- 2,080	29	
2,090- 2,150	30	2,020- 2,150
2,160- 2,220	31	
2,230- 2,290	32	2,160- 2,290
2,300- 2,360	33	
2,370- 2,430	34	2,300- 2,430
2,440- 2,500	35	
2,510- 2,570	36	2,440- 2,570
2,580- 2,640	37	
2,650- 2,710	38	2,580- 2,710
2,720- 2,780	39	
2,790- 2,850	40	2,720- 2,850
2,860- 2,920	41	
2,930- 2,990	42	2,860- 2,990
3,000- 3,060	43	
3,070- 3,130	44	3,000- 3,130
3,140- 3,200	45	
3,210- 3,270	46	3,140- 3,270
3,280- 3,340	47	
3,350- 3,410	48	3,280- 3,410
3,420- 3,480	49	
3,490- 3,550	50	3,420- 3,550
3,560- 3,620	51	
3,630- 3,680	52	3,560- 3,690
3,690- 3,750	53	
3,760- 3,820	54	3,700- 3,820
3,830- 3,890	55	
3,900- 3,960	56	3,830- 3,960
3,970- 4,000	57	

*For product width of 4,010 mm or more, Jointed Track.

58	3,950- 4,080
59	
60	4,090- 4,220
61	
62	4,230- 4,360
63	
64	4,370- 4,500
65	
66	4,510- 4,640
67	
68	4,650- 4,780
69	
70	4,790- 4,920
71	
72	4,930- 5,000

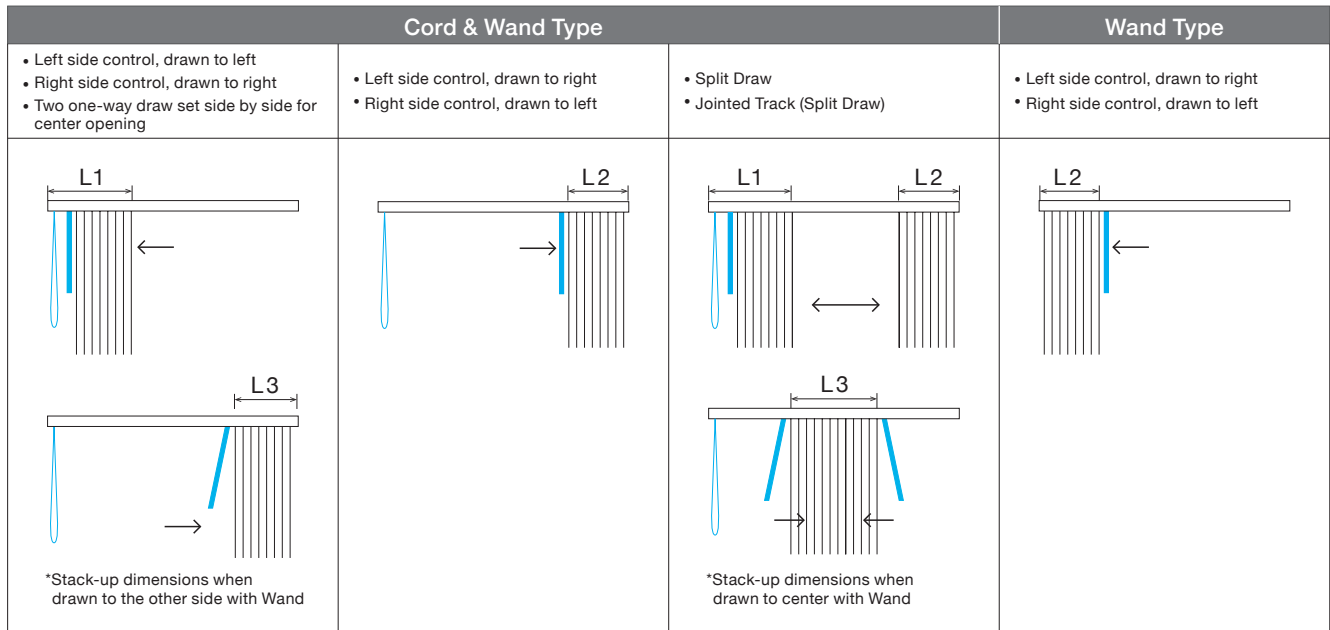
58	3,970- 4,100
59	
60	4,110- 4,240
61	
62	4,250- 4,380
63	
64	4,390- 4,520
65	
66	4,530- 4,660
67	
68	4,670- 4,800
69	
70	4,810- 4,940
71	
72	4,950- 5,000

Stack-up Dimensions

Stack-up Dimensions Calculation Method

(Unit: mm)

L1: Stack-up dimensions for operation side L2: Stack-up dimensions for non-operation side



Available Jointed Track Type only for split draw, unavailable for one-way draw.

Product Name	Operation Type	Louver Width	Operation Side (L1)	Non-operation Side (L2)	Other Dimensions (L3)		
DUAL	Cord & Wand Type	One-way Draw	100	$(7.5 \times W/90) + 70$	$(7.5 \times W/90) + 55$	L1+40	
			80	$(7.5 \times W/70) + 60$	$(7.5 \times W/70) + 45$	L1+30	
		Split Draw	100	$(7.5 \times W/180) + 70$	$(7.5 \times W/180) + 55$	L1+30	
			80	$(7.5 \times W/140) + 60$	$(7.5 \times W/140) + 45$	L1+20	
		Two One-way Draw Set Side by Side for Center Opening (Louvers overlap)	100	$(7.5 \times W/90) + 70$	–	L1+40	
			80	$(7.5 \times W/70) + 60$	–	L1+30	
	Jointed Track (Split Draw)	100	$(7.5 \times W/180) + 70$		L1+100		
		80	$(7.5 \times W/140) + 60$		L1+90		
	Wand Type	100	–	$(7.5 \times W/90) + 55$	–		
		80	–	$(7.5 \times W/70) + 45$	–		
DUAL Wand on Both Sides	Cord & Wand Type	One-way Draw	100	$(7.5 \times W/90) + 70$		L1+40	
			80	$(7.5 \times W/70) + 60$		L1+30	
		Split Draw	100	$(7.5 \times W/180) + 70$		L2×2+60 *1	
			80	$(7.5 \times W/140) + 60$		L2×2+40 *2	
		Jointed Track (Split Draw)	100	$(7.5 \times W/180) + 70$		L2×2+200 *1	
			80	$(7.5 \times W/140) + 60$		L2×2+180 *2	
	Wand Type	100	–	$(7.5 \times W/90) + 70$	–		
		80	–	$(7.5 \times W/70) + 60$	–		
	DUAL OVERLAP	Cord & Wand Type	One-way Draw ★	100	$(7.5 \times W/70) + 70$	$(7.5 \times W/70) + 55$	L1+40
			Split Draw ★	100	$(7.5 \times W/140) + 70$	$(7.5 \times W/140) + 55$	L1+10
Two One-way Draw Set Side by Side for Center Opening (Louvers overlap)			100	$(7.5 \times W/70) + 70$	–	L1+20	
Jointed Track (Split Draw) ★			100	$(7.5 \times W/140) + 70$		L1+80	
Wand Type ★		100	–	$(7.5 \times W/70) + 55$	–		
DUAL OVERLAP Wand on Both Sides	Cord & Wand Type	One-way Draw	100	$(7.5 \times W/70) + 70$		L1+40	
		Split Draw	100	$(7.5 \times W/140) + 70$		L2×2+20 *2	
		Jointed Track (Split Draw)	100	$(7.5 \times W/140) + 70$		L2×2+160 *2	
	Wand Type	100	–	$(7.5 \times W/70) + 70$	–		

*1 90 mm gap opens in the center.

*2 70 mm gap opens in the center.

*3 For DUAL SHAPE is the same as ★.

Product Width Dimensions Calculation Method for Blind Stack-up Outside of the Window Frame

(Unit: mm)

L1: Stack-up dimensions for operation side L2: Stack-up dimensions for non-operation side

Cord & Wand Type		Wand Type	
<ul style="list-style-type: none"> • Left side control, drawn to left • Right side control, drawn to right • Two one-way draw set side by side for center opening 	<ul style="list-style-type: none"> • Left side control, drawn to right • Right side control, drawn to left 	<ul style="list-style-type: none"> • Split Draw • Jointed Track (Split Draw) 	<ul style="list-style-type: none"> • Left side control, drawn to right • Right side control, drawn to left

Available Jointed Track only for split draw, unavailable for one-way draw.

Product Name	Operation Type		Louver Width	Operation Side Drawn	Non-operation Side Drawn	
DUAL	Cord & Wand Type	One-way Draw	100	$W=1.09 \times W1 + 185$	$W=1.09 \times W1 + 170$	
			80	$W=1.12 \times W1 + 180$	$W=1.12 \times W1 + 165$	
		Split Draw	100	$W=1.09 \times W1 + 245$		
			80	$W=1.12 \times W1 + 230$		
		Two One-way Draw Set Side by Side for Center Opening (Louvers overlap)	100	$W=1.09 \times W1 + 185$	–	
			80	$W=1.12 \times W1 + 180$	–	
	Jointed Track (Split Draw)	100	$W=1.09 \times W1 + 260$			
		80	$W=1.12 \times W1 + 245$			
	Wand Type			100	–	$W=1.09 \times W1 + 170$
				80	–	$W=1.12 \times W1 + 165$
DUAL Wand on Both Sides	Cord & Wand Type	One-way Draw	100	$W=1.09 \times W1 + 185$		
			80	$W=1.12 \times W1 + 180$		
		Split Draw	100	$W=1.09 \times W1 + 260$		
			80	$W=1.12 \times W1 + 245$		
		Jointed Track (Split Draw)	100	$W=1.09 \times W1 + 260$		
			80	$W=1.12 \times W1 + 245$		
	Wand Type			100	–	$W=1.09 \times W1 + 185$
				80	–	$W=1.12 \times W1 + 180$
	DUAL OVERLAP	Cord & Wand Type	One-way Draw ★	100	$W=1.12 \times W1 + 190$	$W=1.12 \times W1 + 175$
			Split Draw ★	100	$W=1.12 \times W1 + 250$	
Two One-way Draw Set Side by Side for Center Opening (Louvers overlap)			100	$W=1.12 \times W1 + 190$	–	
Jointed Track (Split Draw) ★			100	$W=1.12 \times W1 + 270$		
Wand Type ★				100	–	$W=1.12 \times W1 + 175$
DUAL OVERLAP Wand on Both Sides	Cord & Wand Type	One-way Draw	100	$W=1.12 \times W1 + 190$		
		Split Draw	100	$W=1.12 \times W1 + 270$		
		Jointed Track (Split Draw)	100	$W=1.12 \times W1 + 270$		
	Wand Type			100	–	$W=1.12 \times W1 + 190$

* For DUAL SHAPE is the same as ★.

Stack-up Dimensions Guide

(Unit: mm)

Product Name	Operation Type		Louver Width	Fitting Position	Product Width								
					1,200	1,600	2,000	2,400	2,800	3,200	3,600	4,000	
DUAL	Cord & Wand Type	One-way Draw	100	L1	170	205	240	270	305	340	370	405	
			80	L2	155	190	225	255	290	325	355	390	
		Split Draw	100	L1	190	230	275	320	360	405	445	490	
			80	L2	175	220	260	305	345	390	435	475	
		Two One-way Draw Set Side by Side for Center Opening (Louvers overlap)	100	L1	120	140	155	170	190	205	220	240	
			80	L2	105	125	140	155	175	190	205	225	
	Jointed Track (Split Draw)	100	L1	125	150	170	190	210	235	255	275		
		80	L2	110	135	155	175	195	220	240	260		
	Wand Type	100	L1	170	205	240	270	305	340	370	405		
		80	L2	210	245	280	310	345	380	410	445		
	DUAL Wand on Both Sides	Cord & Wand Type	One-way Draw	100	L1/L2	190	230	275	320	360	405	445	490
				80	L1/L2	120	140	155	170	190	205	220	240
Split Draw			100	L1/L2	125	150	170	190	210	235	255	275	
			80	L1/L2	–	–	155	170	190	205	220	240	
Jointed Track (Split Draw)			100	L1/L2	–	–	170	190	210	235	255	275	
			80	L1/L2	–	–	170	190	210	235	255	275	
Wand Type		100	L2	170	205	240	270	305	340	370	405		
		80	L2	190	230	275	320	360	405	445	490		
DUAL OVERLAP		Cord & Wand Type	One-way Draw ★	100	L1	200	245	285	330	370	415	460	500
				100	L2	185	230	270	315	355	400	445	485
			Split Draw ★	100	L1	135	160	180	200	220	245	265	285
				100	L2	120	145	165	185	205	230	250	270
	Two One-way Draw Set Side by Side for Center Opening (Louvers overlap)		100	L1	200	245	285	330	370	415	460	500	
			100	L2	220	265	305	350	390	435	480	520	
DUAL OVERLAP Wand on Both Sides	Cord & Wand Type	One-way Draw	100	L1/L2	–	–	180	200	220	245	265	285	
			100	L2	185	230	270	315	355	400	445	485	
		Split Draw	100	L1/L2	200	245	285	330	370	415	460	500	
			100	L1/L2	135	160	180	200	220	245	265	285	
		Jointed Track (Split Draw)	100	L1/L2	–	–	180	200	220	245	265	285	
			100	L2	200	245	285	330	370	415	460	500	

*For DUAL SHAPE is the same as ★.

Product Width Dimensions Guide for Blind Stack-up Outside of the Window Frame

(Unit: mm)

Product Name	Operation Type		Louver Width	Fitting Position	Window Frame Width								
					1,200	1,600	2,000	2,400	2,800	3,200	3,600	4,000	
DUAL	Cord & Wand Type	One-way Draw	100	L1	1,490	1,930	2,370	2,800	3,240	3,670	4,110	4,550	
			80	L2	1,480	1,910	2,350	2,790	3,220	3,660	4,090	4,530	
		Split Draw	100	L1	1,520	1,970	2,420	2,870	3,320	3,760	4,210	4,660	
			80	L2	1,510	1,960	2,410	2,850	3,300	3,750	4,200	4,650	
		Two One-way Draw Set Side by Side for Center Opening (Louvers overlap)	100	L1	1,550	1,990	2,430	2,860	3,300	3,730	4,170	4,610	
			80	L1	1,570	2,020	2,470	2,920	3,370	3,810	4,260	4,710	
	Jointed Track (Split Draw)	100	L1	1,490	1,930	2,370	2,800	3,240	3,670	4,110	4,550		
		80	L1	1,520	1,970	2,420	2,870	3,320	3,760	4,210	4,660		
	Wand Type	100	L1	1,570	2,000	2,440	2,880	3,310	3,750	4,180	4,620		
		80	L1	1,590	2,040	2,490	2,930	3,380	3,830	4,280	4,730		
	DUAL Wand on Both Sides	Cord & Wand Type	One-way Draw	100	L1/L2	1,490	1,930	2,370	2,800	3,240	3,670	4,110	4,550
				80	L1/L2	1,510	1,960	2,410	2,850	3,300	3,750	4,200	4,650
Split Draw			100	L1/L2	1,570	2,000	2,440	2,880	3,310	3,750	4,180	4,620	
			80	L1/L2	1,590	2,040	2,490	2,930	3,380	3,830	4,280	4,730	
Jointed Track (Split Draw)			100	L1/L2	1,570	2,000	2,440	2,880	3,310	3,750	4,180	4,620	
			80	L1/L2	1,590	2,040	2,490	2,930	3,380	3,830	4,280	4,730	
Wand Type		100	L1/L2	1,490	1,930	2,370	2,800	3,240	3,670	4,110	4,550		
		80	L1/L2	1,520	1,970	2,420	2,870	3,320	3,760	4,210	4,660		
DUAL OVERLAP		Cord & Wand Type	One-way Draw ★	100	L1	1,530	1,980	2,430	2,880	3,330	3,770	4,220	4,670
				100	L2	1,520	1,970	2,420	2,860	3,310	3,760	4,210	4,660
			Split Draw ★	100	L1	1,590	2,040	2,490	2,940	3,390	3,830	4,280	4,730
				100	L1	1,530	1,980	2,430	2,880	3,330	3,770	4,220	4,670
	Two One-way Draw Set Side by Side for Center Opening (Louvers overlap)		100	L1	1,610	2,060	2,510	2,960	3,410	3,850	4,300	4,750	
			100	L1	1,520	1,970	2,420	2,860	3,310	3,760	4,210	4,660	
DUAL OVERLAP Wand on Both Sides	Cord & Wand Type	One-way Draw	100	L1/L2	1,530	1,980	2,430	2,880	3,330	3,770	4,220	4,670	
			100	L1/L2	1,610	2,060	2,510	2,960	3,410	3,850	4,300	4,750	
		Split Draw	100	L1/L2	1,610	2,060	2,510	2,960	3,410	3,850	4,300	4,750	
			100	L1/L2	1,610	2,060	2,510	2,960	3,410	3,850	4,300	4,750	
		Jointed Track (Split Draw)	100	L1/L2	1,610	2,060	2,510	2,960	3,410	3,850	4,300	4,750	
			100	L1/L2	1,610	2,060	2,510	2,960	3,410	3,850	4,300	4,750	
Wand Type	100	L1/L2	1,530	1,980	2,430	2,880	3,330	3,770	4,220	4,670			
	100	L1/L2	1,530	1,980	2,430	2,880	3,330	3,770	4,220	4,670			

*For DUAL SHAPE is the same as ★.

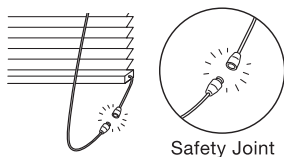
For Safe Use of Blind

Japan Window Blind Association

Japan Window Blind Association prepares the following safety devices to give safe use of blinds and shades at home with young children.

● Safety Joint

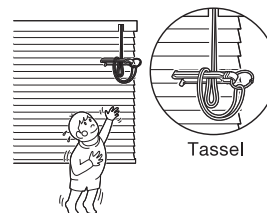
This part comes apart when the weight of a child is applied to the Cord.



Safety Joint

● Safety Tassel

A device for bundling the Cord or the Chain. By bundling it to keep out of children's reach, it will reduce the risk of an accident.



Tassel

⚠ Caution

- ⊘ A child can take an unexpected action. Do not bring your common sense into his or her behavior. Do not let him or her play with the Cord or the Chain.

⚠ Warning

- ⊘ If the Cord is not bundled with the clip, the Cord or the Chain may wind around or get caught on the child's body, which may lead to a hazardous accident.

⚠ Warning

- ⊘ The Cord or the Chain can wind around your child and he or she may entangle it. It may lead to a hazardous accident.

日本ブラインド工業会
Japan Window Blind Association



⚠ Warning

- ⊘ If you have a young child, never put a sofa or bed near the Cord or Chain of a blind or shade. Your child may climb up the sofa or bed and will reach the Cord or Chain, which can cause a serious accident.



日本ブラインド工業会
Japan Window Blind Association

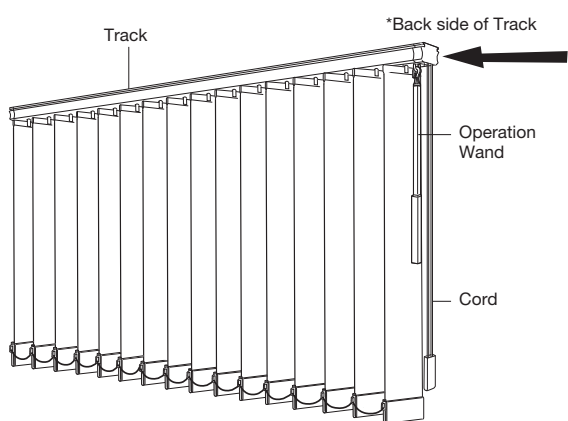
⚠ Warning

- ⊘ If the bottom cord does not come off, the child will be caught. It may lead to an hazardous accident.

■ A Safety Joint or tassel will reduce the risk but not eliminate it 100%. Be aware of the possible risk of Cord or Chain and use it with care.

Maintenance Sticker

- For preventive maintenance, a maintenance sticker attached to the product you bought. Please refer to the sticker in case you need to contact us or repair the blind.



This shows you the date of production.

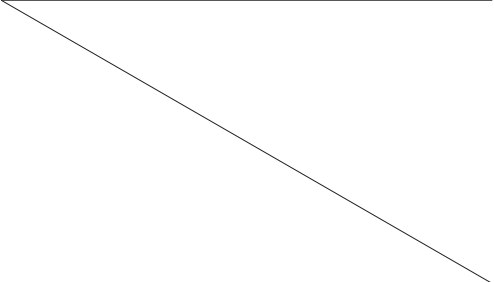

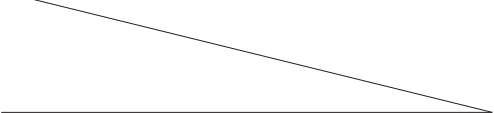
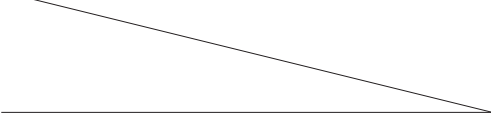
■ Date of Production: ** , ** , ****	TOSO	
■ Product Name: DUAL100 One-way draw, drawn to right		
TF-**** 2000 × 2000		
■ Serial Number: *****	Made in Japan	

This shows you the following information:

DUAL100	One-way draw, drawn to right	TF-****	2000 ×	2000
Product Name	Drawn Style	Color No.	Product Width	Product Height

- With the bar code reader of your mobile phone, you can read a 2-dimensional bar code on the sticker and access our site to get the product information.

*Attention: you may not be able to read the bar code if the sticker gets dirty or damaged.

	DUAL	DUAL SHAPE
1. Louver Width	<input type="checkbox"/> 100 mm <input type="checkbox"/> 80 mm	<input type="checkbox"/> 100 mm <input type="checkbox"/> 80 mm
2. Design Type		
3. Design Louver Arrangement		
4. Louver Number	TF- _____ *100 mm Width: Choose from all Louver numbers. *80 mm Width: Choose from the number below. TF-6041-6080, 6112-6126, 6150-6159, 6441-6480, 6512-6526	TF- _____ *Choose from the number below. TF-6001-6020, TF-6041-6080, 6441-6480, TF-6112-6126, 6512-6526
5. Product Size	Width (W) _____ mm Height (H) _____ mm <small>*Width (W) : 10 mm units *Height (H) : 10 mm units *Allowable size is depending on the louver series.</small>	Width (W) _____ mm Height (H) _____ mm
6. Operation System	<input type="checkbox"/> Cord & Wand Type <ul style="list-style-type: none"> <input type="checkbox"/> One-way Draw / Right side control, drawn to right <input type="checkbox"/> One-way Draw / Right side control, drawn to left <input type="checkbox"/> One-way Draw / Left side control, drawn to left <input type="checkbox"/> One-way Draw / Left side control, drawn to right <input type="checkbox"/> Split Draw / Right side control <input type="checkbox"/> Split Draw / Left side control <input type="checkbox"/> Wand Type <ul style="list-style-type: none"> <input type="checkbox"/> One-way Draw / Right side control, drawn to left <input type="checkbox"/> One-way Draw / Left side control, drawn to right 	<input type="checkbox"/> Cord & Wand Type <ul style="list-style-type: none"> <input type="checkbox"/> One-way Draw / Right side control, drawn to right <input type="checkbox"/> One-way Draw / Right side control, drawn to left <input type="checkbox"/> One-way Draw / Left side control, drawn to left <input type="checkbox"/> One-way Draw / Left side control, drawn to right <input type="checkbox"/> Split Draw / Right side control <input type="checkbox"/> Split Draw / Left side control <input type="checkbox"/> Wand Type <ul style="list-style-type: none"> <input type="checkbox"/> One-way Draw / Right side control, drawn to left <input type="checkbox"/> One-way Draw / Left side control, drawn to right
7. Bottom Weight	<input type="checkbox"/> Buckled Type <input type="checkbox"/> French Seam Type	<input type="checkbox"/> Buckled Type <input type="checkbox"/> French Seam Type
8. Bottom Cord	<input type="checkbox"/> With Bottom Cord <input type="checkbox"/> Without Bottom Cord	<input type="checkbox"/> With Bottom Cord <input type="checkbox"/> Without Bottom Cord
9. Wand Length	_____ mm	_____ mm
10. Installation Method	<input type="checkbox"/> Ceiling <input type="checkbox"/> Wall	<input type="checkbox"/> Ceiling <input type="checkbox"/> Wall
11. Parts Color	<input type="checkbox"/> White <input type="checkbox"/> Brown	<input type="checkbox"/> White <input type="checkbox"/> Brown
12. Quantity	_____ Unit(s)	_____ Unit(s)
13. Options	<input type="checkbox"/> Operation System / Cord & Wand Type <ul style="list-style-type: none"> <input type="checkbox"/> Two One-way Draw set side by side for center opening / Right side control, drawn to right <input type="checkbox"/> Two One-way Draw set side by side for center opening / Left side control, drawn to left 	<input type="checkbox"/> Operation System / Cord & Wand Type <ul style="list-style-type: none"> <input type="checkbox"/> Two One-way Draw set side by side for center opening / Right side control, drawn to right <input type="checkbox"/> Two One-way Draw set side by side for center opening / Left side control, drawn to left
14. Options	<input type="checkbox"/> Operation System <ul style="list-style-type: none"> <input type="checkbox"/> Split Draw / Jointed Track / Right side control <input type="checkbox"/> Split Draw / Jointed Track / Left side control <input type="checkbox"/> Split Draw / 2-on-1 Head Rail / Right side control <input type="checkbox"/> Split Draw / 2-on-1 Head Rail / Left side control <input type="checkbox"/> Additional Wand <input type="checkbox"/> Color Combination <small>*Choose Louver number within the same series.</small> <input type="checkbox"/> Stripe Pattern <small>*Choose Louver number within the same series.</small>	<input type="checkbox"/> Operation System <ul style="list-style-type: none"> <input type="checkbox"/> Split Draw / Jointed Track / Right side control <input type="checkbox"/> Split Draw / Jointed Track / Left side control <input type="checkbox"/> Split Draw / 2-on-1 Head Rail / Right side control <input type="checkbox"/> Split Draw / 2-on-1 Head Rail / Left side control <input type="checkbox"/> Additional Wand

DUAL SEEZ

1. Louver Width

- 100 mm
- 80 mm

2. Design Type

- TYPE 03
- TYPE 07
- TYPE 09 / Upper *Only 100 mm
- TYPE 09 / Bottom *Only 100 mm
- TYPE 13 / Upper *Only 100 mm
- TYPE 13 / Bottom *Only 100 mm
- TYPE 18 / Upper TYPE 20 / Upper
- TYPE 18 / Bottom TYPE 20 / Bottom
- TYPE 19 / Upper TYPE 21 / Upper
- TYPE 19 / Bottom TYPE 21 / Bottom

3. Design Louver Arrangement

- Every other one
*TYPE 19, 20 : CANNOT CHOOSE
- All designed
*TYPE 21 : CANNOT CHOOSE

4. Louver Number

TF- _____
 *100 mm Width : Choose from the number below.
 TF-6001-6088, 6097-6138, 6441-6480, 6512-6526
 *80 mm Width: Choose from the number below.
 TF-6041-6080, 6112-6126, 6441-6480, 6512-6526

5. Product Size

*Width (W) : 10 mm units
*Height (H) : 10 mm units

*Allowable size is depending on the louver series.

Width (W) _____ mm
 Height (H) _____ mm

6. Operation System

- Cord & Wand Type
 - One-way Draw / Right side control, drawn to right
 - One-way Draw / Right side control, drawn to left
 - One-way Draw / Left side control, drawn to left
 - One-way Draw / Left side control, drawn to right
 - Split Draw / Right side control
 - Split Draw / Left side control
- Wand Type
 - One-way Draw / Right side control, drawn to left
 - One-way Draw / Left side control, drawn to right

7. Bottom Weight

- Buckled Type
- French Seam Type

8. Bottom Cord

- With Bottom Cord
- Without Bottom Cord

9. Wand Length

_____ mm

10. Installation Method

- Ceiling
- Wall

11. Parts Color

- White
- Brown

12. Quantity

_____ Unit(s)

13. Options

No Additional Charge

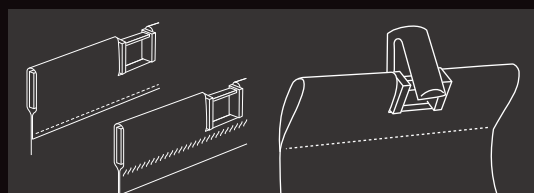
- Operation System / Cord & Wand Type
 - Two One-way Draw set side by side for center opening / Right side control, drawn to right
 - Two One-way Draw set side by side for center opening / Left side control, drawn to left

14. Options

Additional Charge

- Operation System
 - Split Draw / Jointed Track / Right side control
 - Split Draw / Jointed Track / Left side control
 - Split Draw / 2-on-1 Head Rail / Right side control
 - Split Draw / 2-on-1 Head Rail / Left side control
- Additional Wand

Vertical Blinds Product Manual



TOSO

JAPAN

Premium Curtain Rails & Blinds