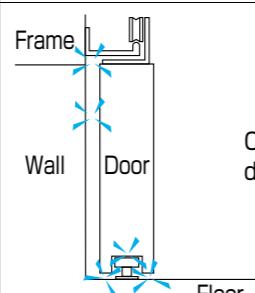


## PRECAUTIONS

### CAUTION

1. Do not put your hand between the door and frame. Your hand may be caught in the door at time of opening/closing, resulting in injury.
2. Do not apply a strong force in a door closing direction. The door will slam close and this may cause an unexpected accident. Door closing operation is performed by the Closer body.
3. Make sure to install latches for rollers when constructing. The door may run off and fall over.
4. Do not modify or disassemble the Sliding Door Closer. Damage to a component or an accident may occur.

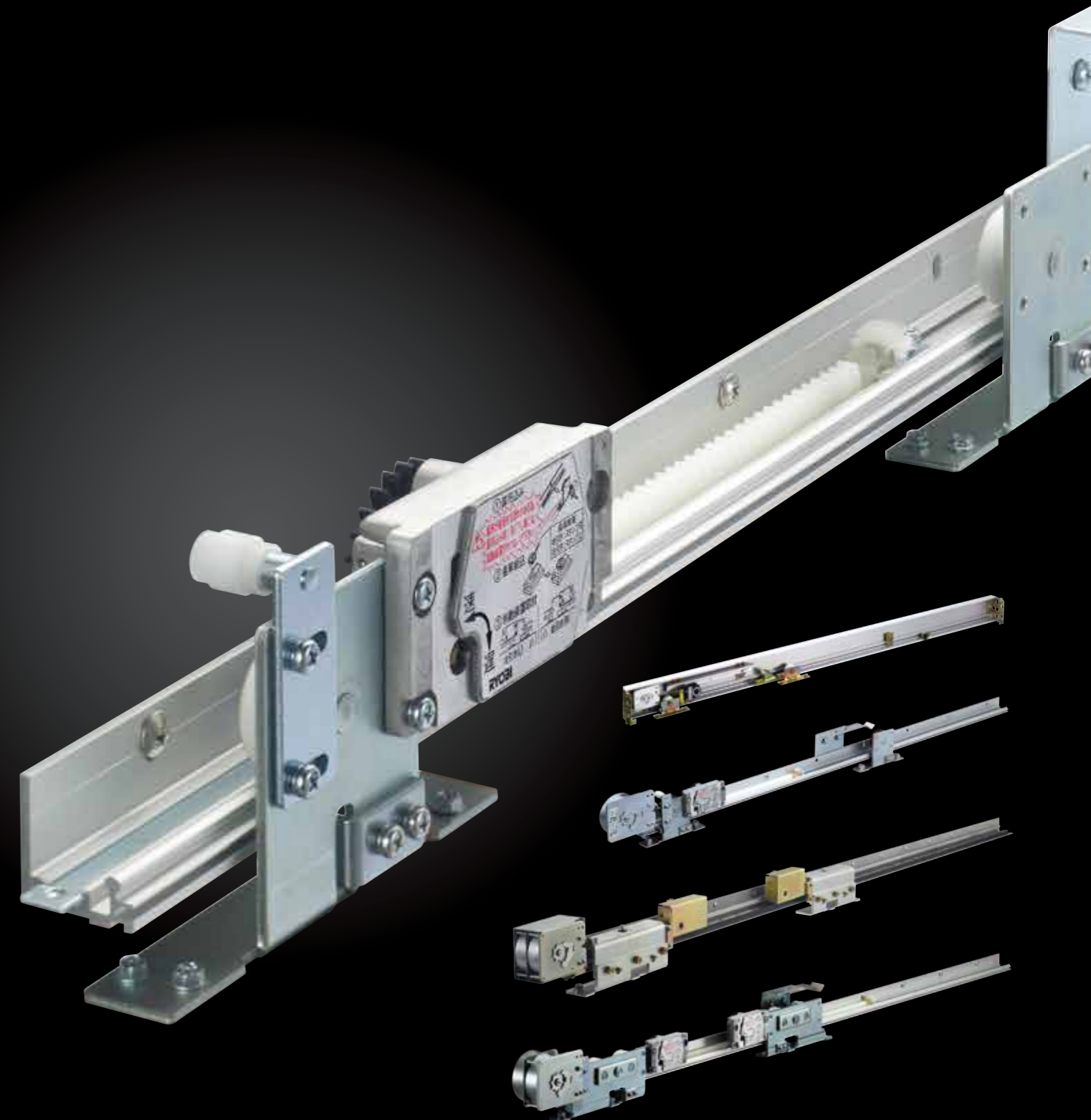
## MAINTENANCE · INSPECTION

Trouble		Cause	Approach
The door does not move.	1	Rollers are running off.	Set up the door correctly and install latches securely.
	2	Rollers do not line up on the center line.	Install rollers in such a way that they are positioned in line with each other.
	3	The door contacts the frame, wall, or floor. The guide roller contacts the door.	 <p>Check the contact portion and actual dimensions, and install the door again.</p>
The door does not close completely (it gets stuck while closing).	4	The rail slope angle differs.	(Slope type) Install the rail at the correct slope angle (slope of 3.5/300mm). (With drive device) Install the rail horizontally.
	5	There is dirt, contamination, or a scratch on the surface of the rail or pulley.	Clean the rail or pulley. Replace the part depending on the severity of the scratch.
	6	The brake force is too strong.	Adjust it to the optimal brake force (see page 5).
Speed adjustment is not effective while closing.	7	Improper speed adjustment	See page 6.
	8	The direction of the braking gear is reverse.	Remove the braking device and install the gear again in the appropriate direction (see page 5).
The door rattles.	9	There is dirt, contamination, or a scratch on the surface of the rail or pulley.	Clean the rail or pulley. Replace the part depending on the severity of the scratch.
	10	Fixing screws are loose.	Tighten the screws.

DISTRIBUTED BY

# RYOBI®

## SLIDING DOOR CLOSER SL SERIES



**RYOBI® RYOBI LIMITED**

5-2-8 Toshima, Kita-ku Tokyo 114-8518, Japan  
Tel. 81-3-3927-5536 Fax. 81-3-3927-5527

# MODEL CHART

## SLIDERMAN

DOOR TYPE	SPECIFICATION	OPENING	MODEL			APPLICABLE DOOR		PAGE
			W/O HOLD-OPEN	W/H HOLD-OPEN	W/H MULTI HOLD-OPEN	WIDTH X HEIGHT (mm)	WEIGHT (Kg)	
FOR WOOD DOOR	SLOPE	SINGLE	—	<b>SLS-1K30</b>	—	600 - 1450 × 2400	10 - 30	22-25 44-45
			—	<b>SLS-1K50</b>	—		10 - 50	26-29 46-47
			—	<b>SLS-2K30</b>	—		Less than 30	30-33 48-49
	W/H DRIVE DEVICE	SINGLE	—	<b>SLS-2K50</b>	—	600 - 1300 × 2400	Less than 50	34-37 50-51
			—	<b>SLS-2KD60</b>	—		Less than 60 (Total door weight)	38-39 52-53
			—	<b>SLS-2KW60</b>	—		550 - 905 × 2400	Less than 60 (Total door weight)
TELESCOPIA	—	<b>SLS-2KW60</b>	—	550 - 905 × 2400	Less than 60 (Total door weight)	40-43 54-57		

## STANDARD SPECIFICATION

DOOR TYPE	SPECIFICATION	OPENING	MODEL			APPLICABLE DOOR		PAGE
			W/O HOLD-OPEN	W/H HOLD-OPEN	W/H MULTI HOLD-OPEN	WIDTH X HEIGHT (mm)	WEIGHT (Kg)	
FOR STEEL DOOR	SLOPE	SINGLE	<b>SL-1</b>	<b>SLS-1</b>	<b>SLM-1</b>	600 - 1450 × 2400	10 - 80	58-59
			<b>SL-2</b>	<b>SLS-2</b>	<b>SLM-2</b>		Less than 80	60-61
		BI-PARTING	<b>SL-2D</b>	<b>SLS-2D</b>	<b>SLM-2D</b>	600 - 1300 × 2400	Less than 60 (Total door weight)	72-73
		TELESCOPIA	<b>SL-2W</b>	<b>SLS-2W</b>	<b>SLM-2W</b>	550 - 905 × 2400	Less than 60 (Total door weight)	74-77
	W/H DRIVE DEVICE	SINGLE	<b>SL-2H100</b>	<b>SLS-2H100</b>	—	900 - 1500 × 2400	Less than 100	62-63
			<b>SL-2H150</b>	<b>SLS-2H150</b>	—	900 - 2150 × 2400	Less than 150	62-63
			<b>SL-2H200</b>	<b>SLS-2H200</b>	—	1300 - 2150 × 2400	Less than 200	64-65
		TELESCOPIA	<b>SL-2HW150</b>	<b>SLS-2HW150</b>	—	800 - 1255 × 2400	Less than 150 (Total door weight)	78-81
		SINGLE	<b>SL-2HG120</b>	<b>SLS-2HG120</b>	—	900 - 1450 × 2400	Less than 120	66-67
			<b>SL-2HG160</b>	<b>SLS-2HG160</b>	—	900 - 1700 × 2400	Less than 160	68-69
			<b>SL-2HG200</b>	<b>SLS-2HG200</b>	—	1200 - 2000 × 2400	Less than 200	
			<b>SL-2HG250</b>	<b>SLS-2HG250</b>	—	1200 - 2550 × 2400	Less than 250	
FOR ALUMINUM DOOR	W/H DRIVE DEVICE	SINGLE	<b>SL-2A</b>	<b>SLS-2A</b>	<b>SLM-2A</b>	700 - 1450 × 2400	Less than 50	
BI-PARTING		<b>SL-2AD</b>	<b>SLS-2AD</b>	<b>SLM-2AD</b>	600 - 1300 × 2400	Less than 80 (Total door weight)	86-87	
SINGLE		<b>SL-2B</b>	<b>SLS-2B</b>	<b>SLM-2B</b>	700 - 1450 × 2400	Less than 50	84-85	
BI-PARTING		<b>SL-2BD</b>	<b>SLS-2BD</b>	<b>SLM-2BD</b>	600 - 1300 × 2400	Less than 80 (Total door weight)	88-89	
	<b>SL-2BDX</b>	<b>SLS-2BDX</b>	<b>SLM-2BDX</b>	700 - 1300 × 2400 (per a door leaf)	Less than 50 (per a door leaf)	90-91		
FOR MOISTY PLACE	W/H DRIVE DEVICE	SINGLE	<b>SL-2AQ</b>	<b>SLS-2AQ</b>	—	600 - 1450 × 2400	Less than 80	92-93
BI-PARTING		<b>SL-2DAQ</b>	<b>SLS-2DAQ</b>	—	600 - 1300 × 2400	Less than 80 (Total door weight)	94-95	
SINGLE		<b>SL-2BAQ</b>	<b>SLS-2BAQ</b>	—	700 - 1450 × 2400	Less than 80	96-97	
BI-PARTING		<b>SL-2BDAQ</b>	<b>SLS-2BDAQ</b>	—	600 - 1300 × 2400	Less than 80 (Total door weight)	98-99	

## FUNCTION

DOOR TYPE	SL-1 SERIES	SL-2 SERIES	STOP FUNCTION			OPENING FORMS		
	SLOPE TYPE	WITH DRIVE DEVICE	W/O HOLD-OPEN	W/H HOLD-OPEN	W/H MULTI HOLD-OPEN	SINGLE	BI-PARTING	TELESCOPIA
FOR WOOD DOOR	<b>SLS-1K30</b>			○	△ OPTION	○		
	<b>SLS-1K50</b>			○	△ OPTION	○		
FOR STEEL DOOR		<b>SLS-2K30</b>		○	△ OPTION	○	○	○
		<b>SLS-2K50</b>		○	△ OPTION	○	○	○
	<b>SL-1</b>		○	○	○	○		
		<b>SL-2</b>	○	○	○	○	○	○
		<b>SL-2H100</b>	○	○		○		
		<b>SL-2H150</b>	○	○		○		
		<b>SL-2H200</b>	○	○		○		
		<b>SL-2HG120</b>	○	○		○		
		<b>SL-2HG160</b>	○	○		○		
		<b>SL-2HG200</b>	○	○		○		
	<b>SL-2HG250</b>	○	○		○			
FOR ALUMINUM DOOR		<b>SL-2A</b>	○	○		○		
		<b>SL-2B</b>	○	○		○		
FOR MOISTY PLACE		<b>SL-2AQ</b>	○	○		○		
		<b>SL-2BAQ</b>	○	○		○		

## SPECIFICATION

DOOR TYPE	SL-1 SERIES	SL-2 SERIES	CONTROL SYSTEM		SPEED ADJUSTABLE RANGE	AVAILABLE STROKE	DURABILITY	CLOSING POWER / OPENING POWER (N)
	SLOPE TYPE	WITH DRIVE DEVICE	HYDRAULICS	VISCOSITY DAMPER				
FOR WOOD DOOR	<b>SLS-1K30</b>		○		250mm TO CLOSING POSITION	1300mm	1,000,000 CYCLES	2.5 / 6.0
	<b>SLS-1K50</b>		○					3.0 / 8.0
		<b>SLS-2K30</b>	○					500,000 CYCLES
FOR STEEL DOOR		<b>SLS-2K50</b>	○		ALL TRACK RANGE	1350mm	200,000 CYCLES	2.5 / 10.5
	<b>SL-1</b>		○					1,000,000 CYCLES
		<b>SL-2</b>	○			4.0 / 9.0		
		<b>SL-2H100</b>	○			5.0 / 18.0		
		<b>SL-2H150</b>	○			5.0 / 20.0		
		<b>SL-2H200</b>	○			5.0 / 22.0		
		<b>SL-2HG120</b>	○			1300mm	1,000,000 CYCLES	6.0 / 23.0
		<b>SL-2HG160</b>	○			1550mm		6.0 / 28.0
		<b>SL-2HG200</b>	○			1850mm		6.0 / 32.0
		<b>SL-2HG250</b>	○			2400mm		6.0 / 37.0
FOR ALUMINUM DOOR		<b>SL-2A</b>	○		250mm TO CLOSING POSITION	1300mm	1,000,000 CYCLES	4.0 / 9.0
		<b>SL-2B</b>	○					5.0 / 12.0
FOR MOISTY PLACE		<b>SL-2AQ</b>		○				
		<b>SL-2BAQ</b>		○				

Environment and use conditions

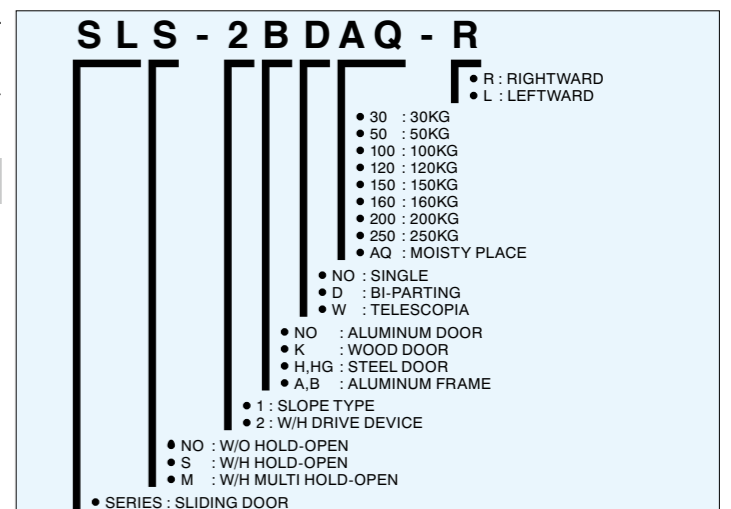
Ambient temperature: 0° C to 40° C

Use place: Indoors (Other than bath and shower room door compatible specifications: places not subject to water, etc. Bath and shower room door compatible specifications: excluding sauna room, hot spring, etc.)

## Numerous variations that respond to a wide range of scenes

RYOBI Sliding Door Closer products are compatible with wood sash, steel sash, heavy steel sash and aluminum front members suitable for hospitals, rehabilitation centers, offices and public facilities for optimum access by all including children, seniors, and physically disabled persons. In addition, hold-open functions can be selected according to use application and settings of bi-parting and telescopia are also available as opening and closing forms to ensure wide opening.

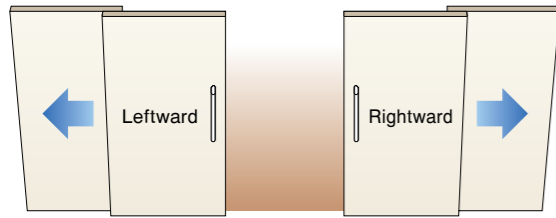
## MODEL NUMBER



# FEATURES

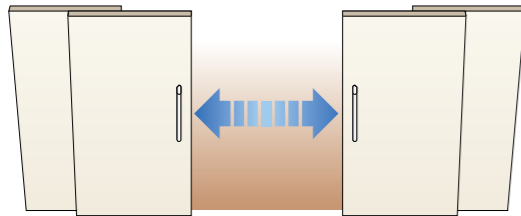
## Various opening and closing forms

### Single



### Bi-parting

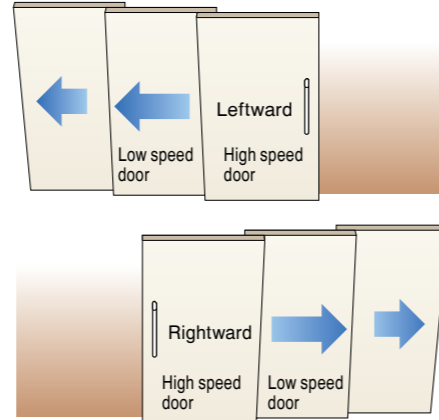
When large opening is required. Both doors open together left and right to ensure large opening.



Opening direction viewed from inspection hole side is standard.

### Telescopia

When large door pocket is not ensured. High speed door and low speed door open together to ensure effective opening. The high speed door moves two times the distance as the low speed door does.



## Used both for leftward and rightward (PAT)

Used both for leftward and rightward except for steel rail specifications for heavy steel door and for aluminum frame. \*If rail length is specified, there are left and right rails.

## Convenience of maintenance (storing-in-wall type)

Because the rack can be removed from above (PAT) even after the rail is installed on the frame, this is convenient for additional braking distance and maintenance.

In addition, the hold-open device can be replaced from the inspection hole (PAT), and this is excellent for maintainability.

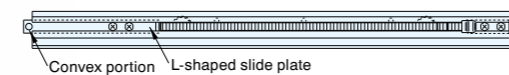


## Easy installation

Hold-open device and gear are assembled by a one-touch method. Installation is easily and securely performed and setting of a stable braking zone is realized by employing an L-shaped slide plate with positioning for rack units.



Insert until the convex portion hits against the rail, and fix the rack position.



## Durability

Passed durability test of one million times (500,000 times for SL-2K series and 200,000 times for SL-2H series), excellent durability has been confirmed.

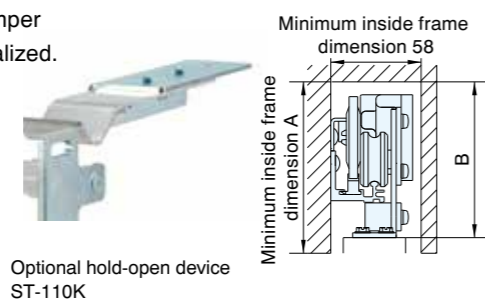
## Quietness

Braking is quiet and smooth by a gear idle mechanism (PAT) for hydraulic damper unit and mohair employed for the rack portion. There is almost no uncomfortable abnormal sound at time of opening and closing.



## “SLIDERMAN” for wood sash

- Hydraulic control is employed – Hydraulic oil damper is employed for all types and stable closing is realized.
- Standard rail supports door width up to 1450mm for single sliding.
- Optional hold-open device ST-110K is compatible with a top frame of small aspect dimensions.



Optional hold-open device ST-110K

Model No.	Door size DW (mm)	Minimum inside frame dimension A (mm)	Inside dimension from door upper surface B (mm)
SLS-1K30	600 - 1200	120	110
	1201 - 1450	125	115
SLS-1K50	600 - 1200	130	120
	1201 - 1450	135	125
SLS-2K30	600 - 1450	110	100
SLS-2K50	600 - 1450	120	110

# FEATURES

## SL-2H type compatible with heavy steel sash

### Double roller employing a seesaw structure supporting heavy door

Large bore double roller also withstands heavy door. Durability is increased by employing a seesaw structure in which load is evenly applied on each roller.



### Powerful double drum type drive device

Drive device with torque adjustment function is of a powerful double drum type. This securely closes even heavy doors, and eliminates incomplete closing.



### Double control suppressing sudden closing (PAT.P)

Closing speed is stably controlled at two stages by double use of damper unit with speed adjustment mechanism and use of some rack units.

## Steel rail specifications for heavy steel sash SL-2HG type

## High durability is realized by rugged steel parts and smooth moving direct acting bearing.



Withstands the load of a heavy door and smoothly opens and closes a heavy door by employment of direct acting bearing used for industrial machines and steel rails. In addition, the direct acting bearing in which packing is arranged in four directions is also resistant to dust, and the sliding closer also offers excellent dust-proof performance. The rugged steel parts realize high durability performance.

## Powerful driving device

The drive device with a torque adjustment function securely closes heavy doors and eliminates incomplete closing. SL-2H250 compatible with 250kg is equipped with a more powerful double drum type.



## All zone control suppressing sudden closing

Damper unit with speed adjustment mechanism uses high strength steel gears. Speeds over all zones are controlled to a stable closing speed.



## Bath and shower room door compatible specifications optimum for bath and shower room door AQ type

### Damper unit excellent in temperature resistance performance

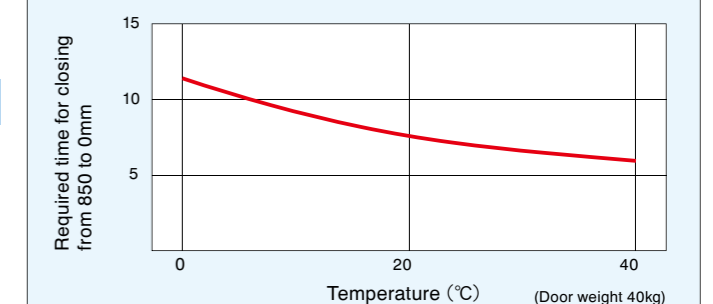
AQ type realizes stable closing speed relative to temperature change by employment of viscosity damper filled with silicon oil.

## Corrosion resistance

Corrosion resistance is enhanced by stainless steel, resin or special surface treatment. (There was no problem with operation after a salt spray test of 500 hours.)

Excellent as a bath and shower room door. (Do not use in places such as a sauna room, hot spring, etc.)

### Change of closing speed with temperature change

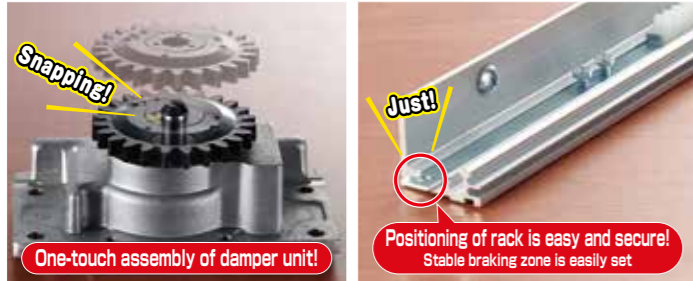


Opening and closing force data are actually measured values and not guaranteed values.

# ADJUSTMENT METHOD

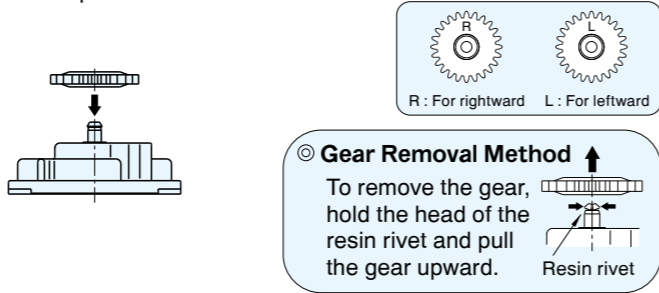
## Speed adjustment

Damper unit and gear are assembled by a one-touch method. Construction is easily and securely performed by employing an L-shaped slide plate with positioning for rack units.



## Installation of Gear

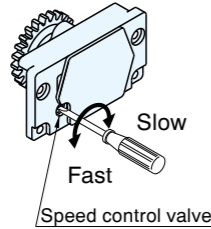
The damper unit and gear are not assembled before shipment. Press the gear into the shaft of the damper unit until it snaps on, so that the stamp symbol in the opening direction will be right side up.



## "SLIDERMAN", for steel sash, aluminum sash compatible specifications

Closing speed can be adjusted in the standard braking zone while closing of approximately 250mm. (The braking zone can be extended by adding a rack even if the rail is not removed (PAT).) Open and close the door a few times to check braking.

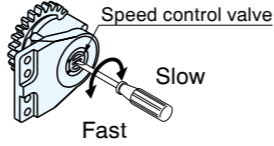
### ●SL-1, 1K, 2, 2K, 2A, 2B types



## Bath and shower room door compatible specifications AQ type

Closing speed can be adjusted in the standard braking zone while closing of approximately 250mm. (The braking zone can be extended by adding a rack even if the rail is not removed (PAT).) Open and close the door a few times to check braking.

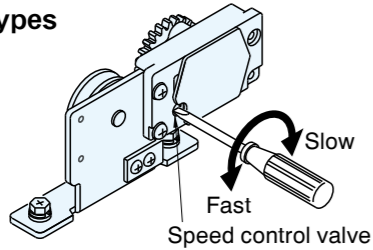
### ●SL-2AQ types



## For heavy steel door SL-2H type

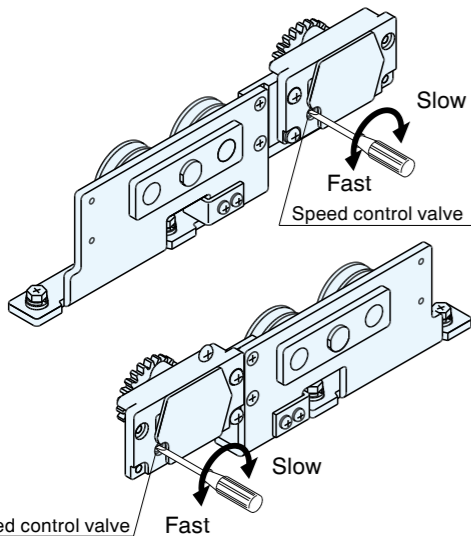
Closing speed can be adjusted in the range of 500 - 750mm to closing position. Adjust the speed control valve for the damper unit with a flat-blade screwdriver. Open and close the door a few times to check braking.

### ○SL-2H100 types



### ○SL-2H150, 200 types

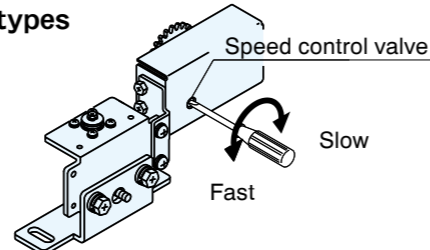
The damper unit on the door head side controls almost all zones, and the damper unit on the door tail side controls while closing, therefore, closing speed can be adjusted at two stages.



## Steel rail specifications for heavy steel door SL-2HG type

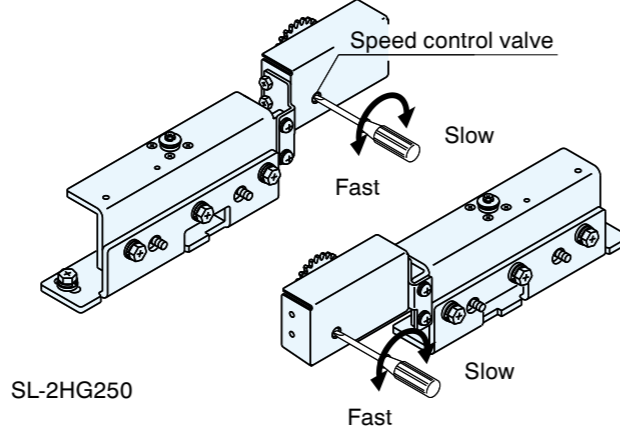
Controls speed of almost all zones to a stable speed. Adjust the speed control valve for the damper unit with a flat-blade screwdriver. Open and close the door a few times to check braking.

### ○SL-2HG120 types



### ○SL-2HG160, 200, 250 types

Speed adjustment zone for two units is the entire zone. Adjust speeds of two units to nearly the same speed.

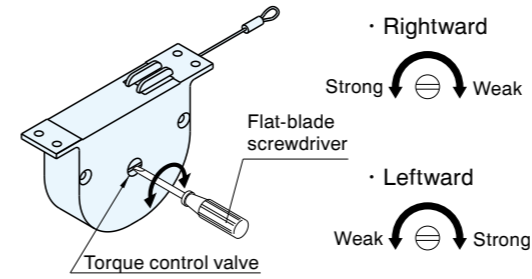


SL-2HG250

# ADJUSTMENT METHOD

## Torque Adjustment

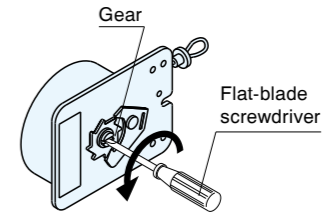
### Sliderman (SLS-2K type)



### SL-2, 2A, 2B, AQ type

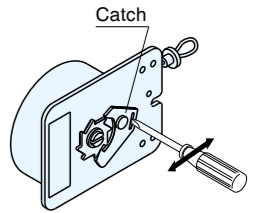
#### • Torque up

Turn the gear counterclockwise. The torque can be further controlled up to seven turns (9.5 turns engagement) compared with pre-shipment. \*Excessive engagement may cause a failure.



#### • Torque Down

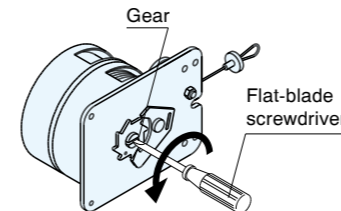
Shake the catch little by little, then the gear returns one tooth at a time and the torque goes down. If the minimum value is unknown, return to zero turns once and engage the gear by 2.5 turns.



### For heavy steel door SL-2H type

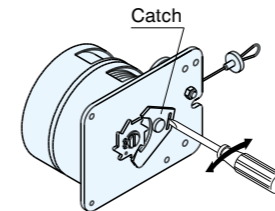
#### • Torque up

Turn the gear counterclockwise. The torque can be further controlled up to 7 turns for 2H100, and 8 turns for 2H150/200 (9.5 turns engagement) compared with pre-shipment. \*Excessive engagement may cause a failure.



#### • Torque Down

Shake the catch little by little, then the gear returns one tooth at a time and the torque goes down. If the minimum value is unknown, return to zero turns once and engage the gear by 2.5 turns for 2H100, and 1.5 turns for 2H150/200.

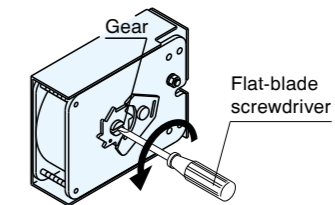


### Steel rail specifications for heavy steel door SL-2HG type

#### • Torque up

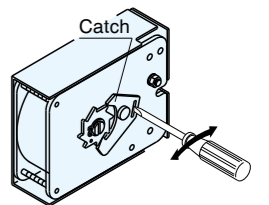
Turn the gear counterclockwise. The torque can be further controlled up to eight turns (9.5 turns engagement) compared with pre-shipment. \*Excessive engagement may cause a failure.

#### ○SL-2HG120 type

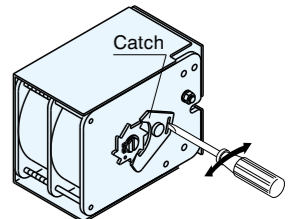
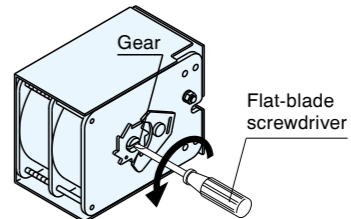


#### • Torque Down

Shake the catch little by little, then the gear returns one tooth at a time and the torque goes down. If the minimum value is unknown, return to zero turns once and engage the gear by 1.5 turns.



#### ○SL-2HG160, 200, 250 type

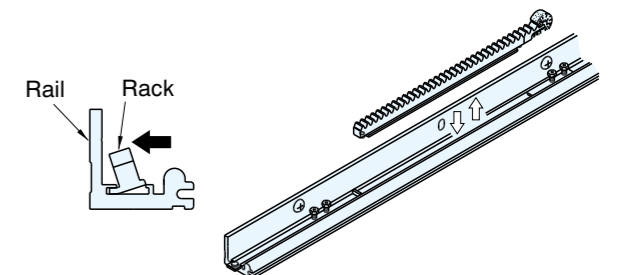


## Rack removal method (PAT)

Even after inserting the rail into the frame, you can remove the rack from above. Do so when changing the braking distance or performing maintenance.

(Neither the slide plate nor the L-shaped slide plate can be removed from above.)

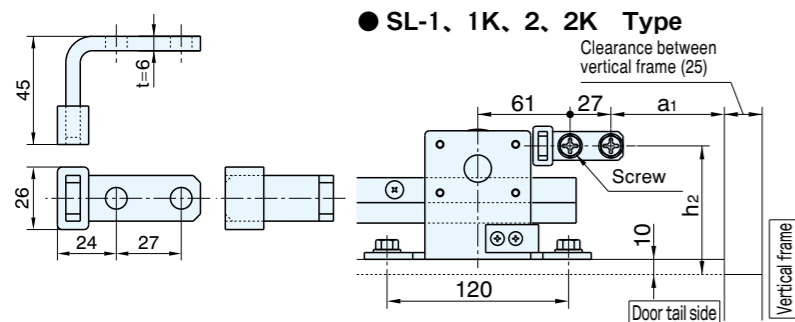
- (1) You can remove the rack by pressing the both ends of the rack against the rail and bending the arc-shaped projection by pressing it.
- (2) If the rail is too tight when inserting the rack, press the rack into the rail with a flat-blade screwdriver.





# OPTION PARTS

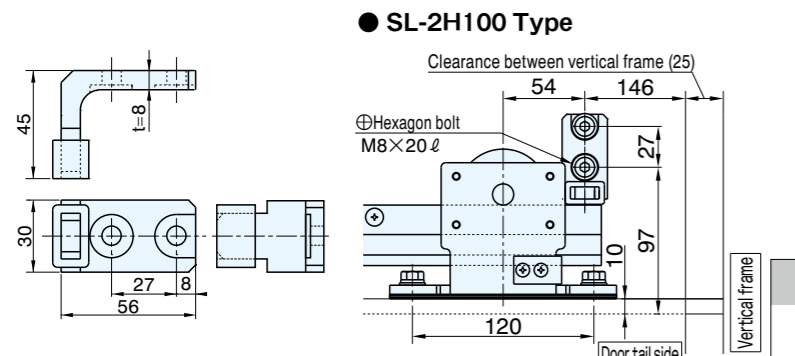
## Door Stopper (T-01K/T-01)



### ● SL-1, 1K, 2, 2K Type

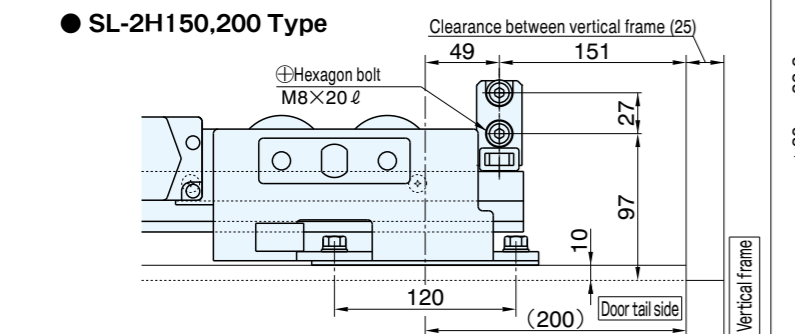
Model	Sliding Door Closer	Door Size DW(mm)	Installation Dimension		Installation Screw
			a <sub>1</sub>	h <sub>2</sub>	
T-01K (For Wood Door)	SL-1K30	- 1000	112	100	⊕Truss head screw φ4.5×20ℓ Washer φ5.1×φ18 t=1.6
	SL-1K50	1001 - 1350	212	108	
	SL-2K30	- 1350	112	85	
	SL-2K50	1351 - 1450	212	85	
T-01 (For Steel Door)	SL-1	- 1000	112	100	⊕Hexagon bolt M8×20ℓ
	SL-2	- 1450	112	85	

## Door Stopper (T-01H)

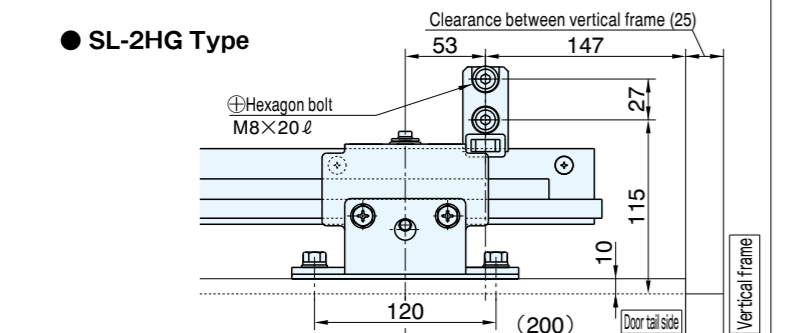


### ● SL-2H100 Type

Model	Sliding Door Closer	Door Size DW(mm)	Installation Screw
T-01H (For Heavy Duty Steel Door)	SL-2H100 Type	- 1500	⊕Hexagon bolt M8×20ℓ
	SL-2H150,200 Type	- 2150	
	SL-2HG Type	- 2550	



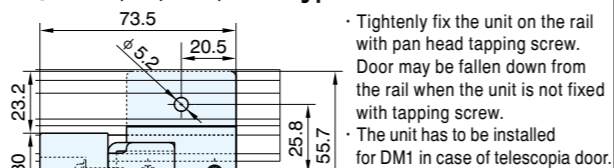
### ● SL-2H150,200 Type



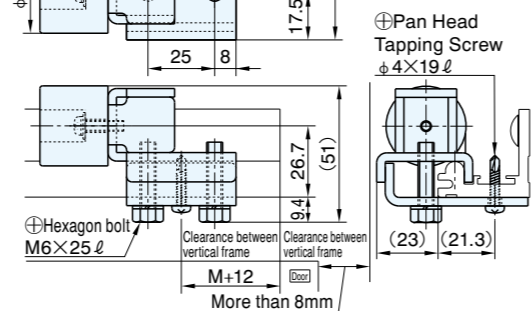
### ● SL-2HG Type

## Door Stopper (T-04)

### ● SL-1, 2, 2D, 2W Type



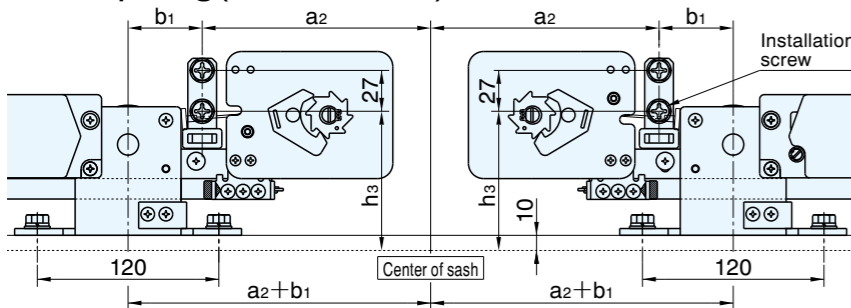
• Tightly fix the unit on the rail with pan head tapping screw. Door may be fallen down from the rail when the unit is not fixed with tapping screw.  
• The unit has to be installed for DM1 in case of telescopia door.



Model	Sliding Door Closer	Door Size DW(mm)	Installation Dimension		Installation Screw
			a <sub>2</sub>	b <sub>1</sub>	
T-04	SL-1 Type	- 1450	⊕Pan Head Tapping Screw φ4×19ℓ	92	
	SL-2 Type	- 1450			
	SL-2D Type	- 1300			
	SL-2W Type	- 905			

## Door Stopper (T-01/T-01K/T-01H)

### ● Door stopper mounting dimensions on door head side at bi-parting (non-connection)

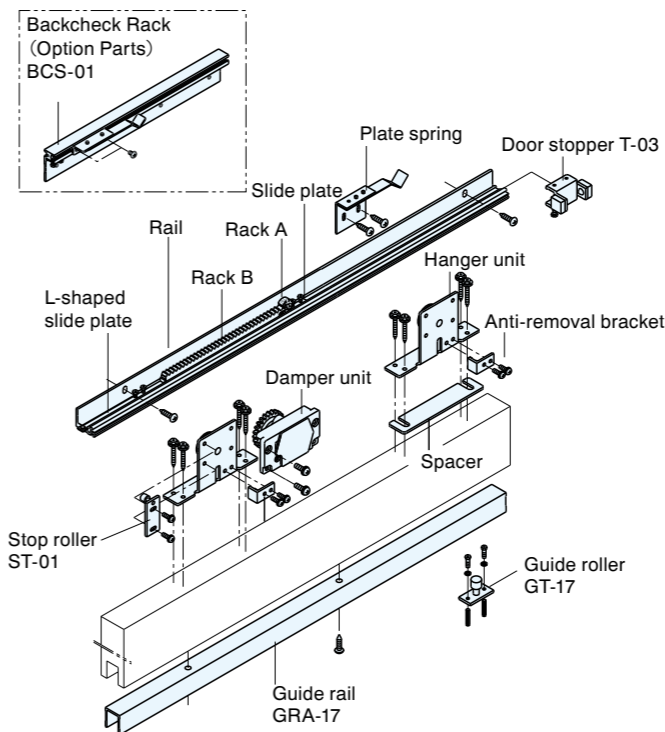


Model	Sliding Door Closer	Installation Dimension			Installation Screw	
		a <sub>2</sub>	b <sub>1</sub>	h <sub>3</sub>		
T-01K (For Wood Door)	SL-1K30	151	49	92	⊕Truss head screw φ4.5×20ℓ Washer φ5.1×φ18 t=1.6	
	SL-1K50	161		98		
	SL-2KW60	161		205		
T-01 (For Steel Door)	SL-1/SL-2 Type	151	49	92	⊕Hexagon bolt M8×20ℓ	
	SL-2H100 Type	151		92		
	SL-2H150/200 Type	146		54		97
	SL-2HG Type	151		49		97
	SL-2W/SL-2HW Type	161	49	205		

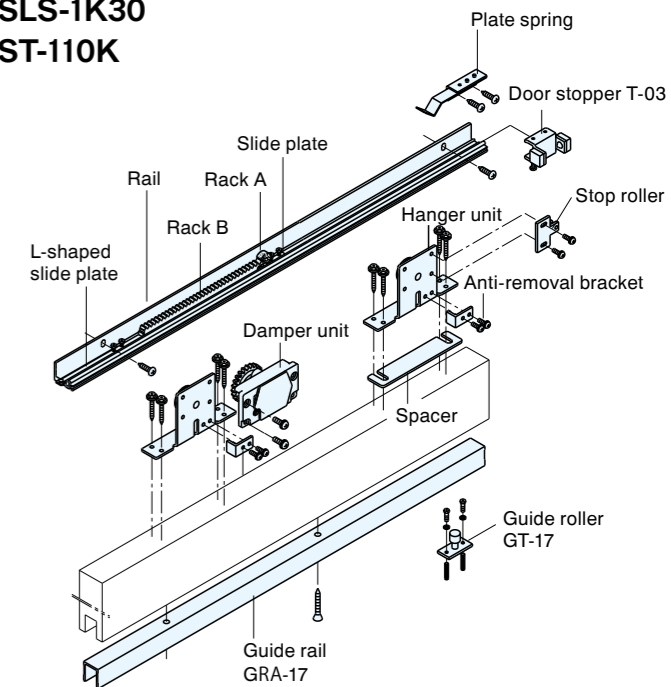
# PARTS COMPONENTS

This is rightward with hold-open device

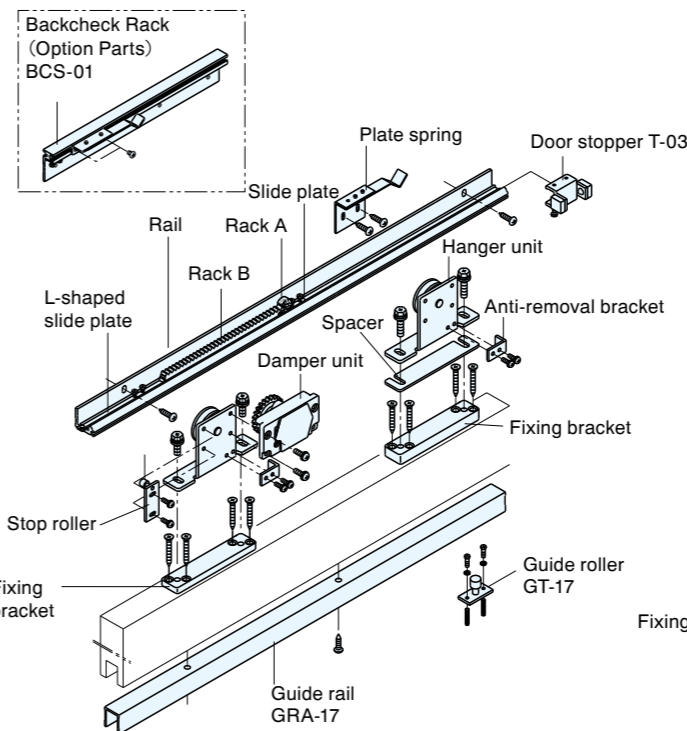
## SLS-1K30



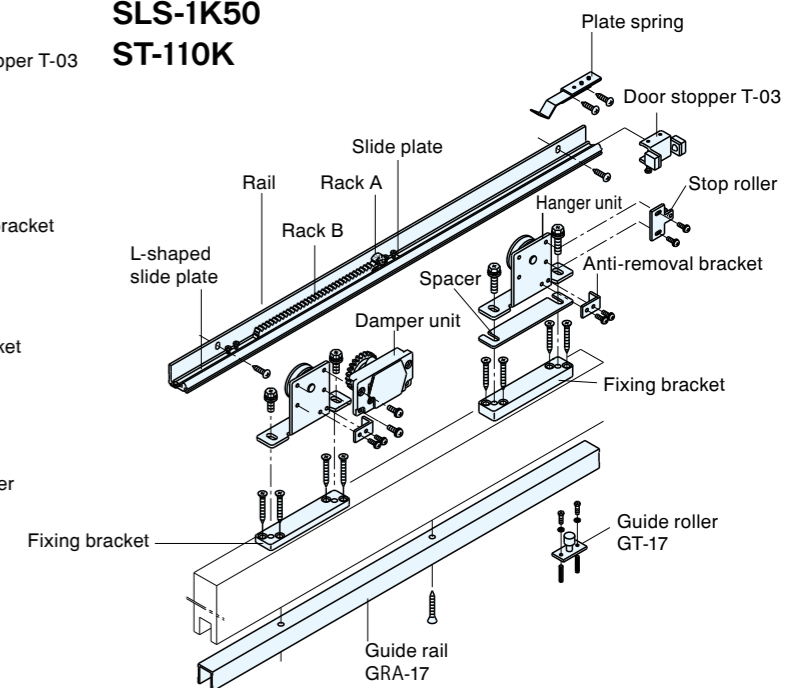
## SLS-1K30 ST-110K



## SLS-1K50

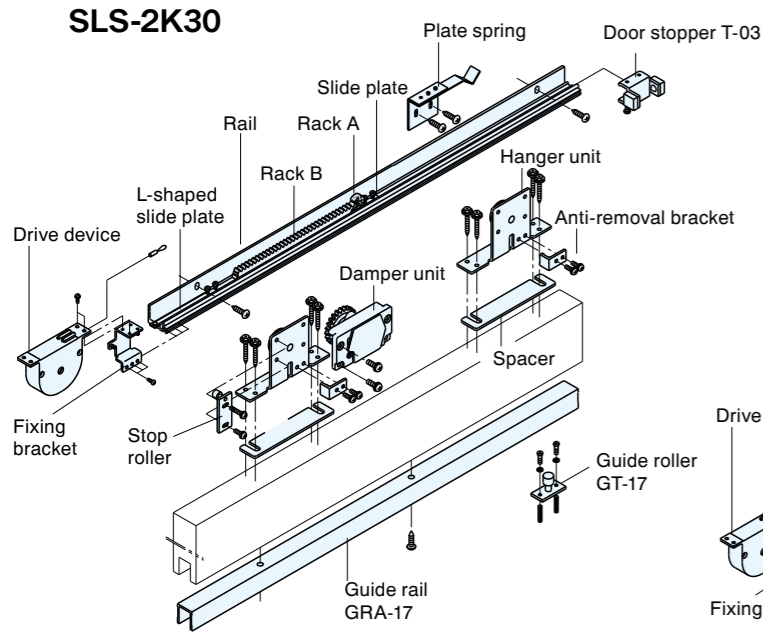


## SLS-1K50 ST-110K

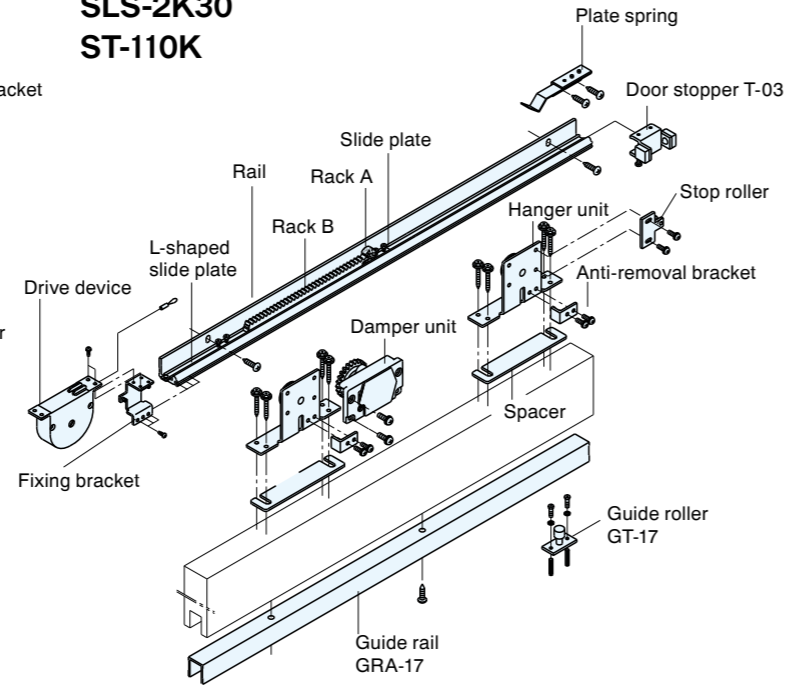


# PARTS COMPONENTS

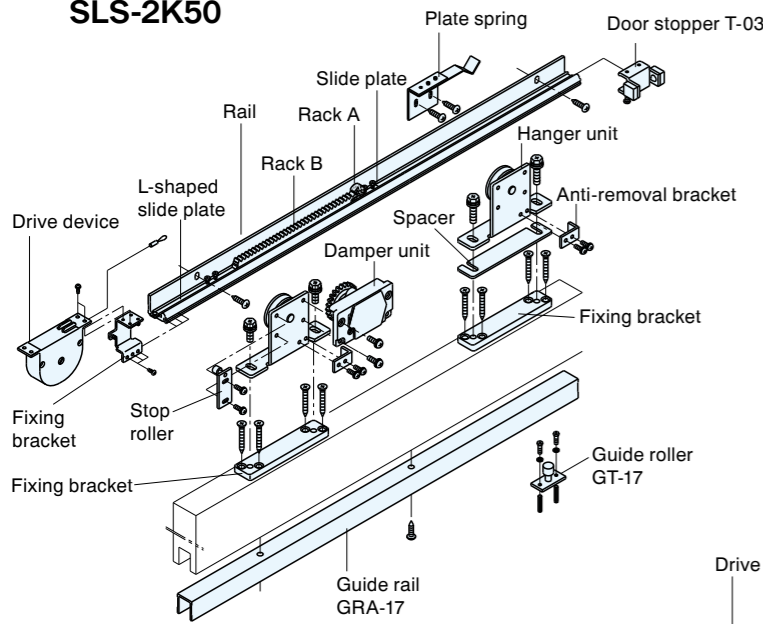
This is rightward with hold-open device



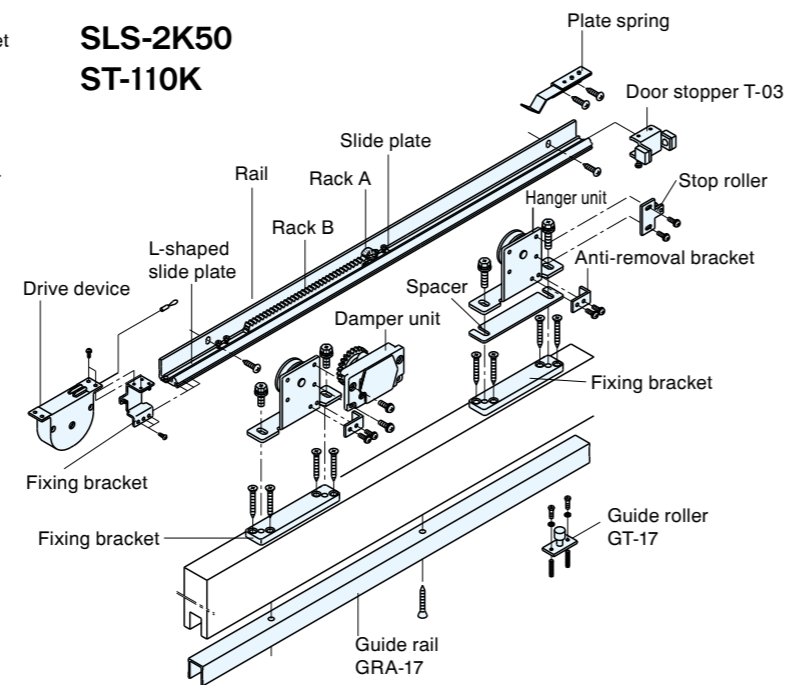
**SLS-2K30  
ST-110K**



**SLS-2K50**



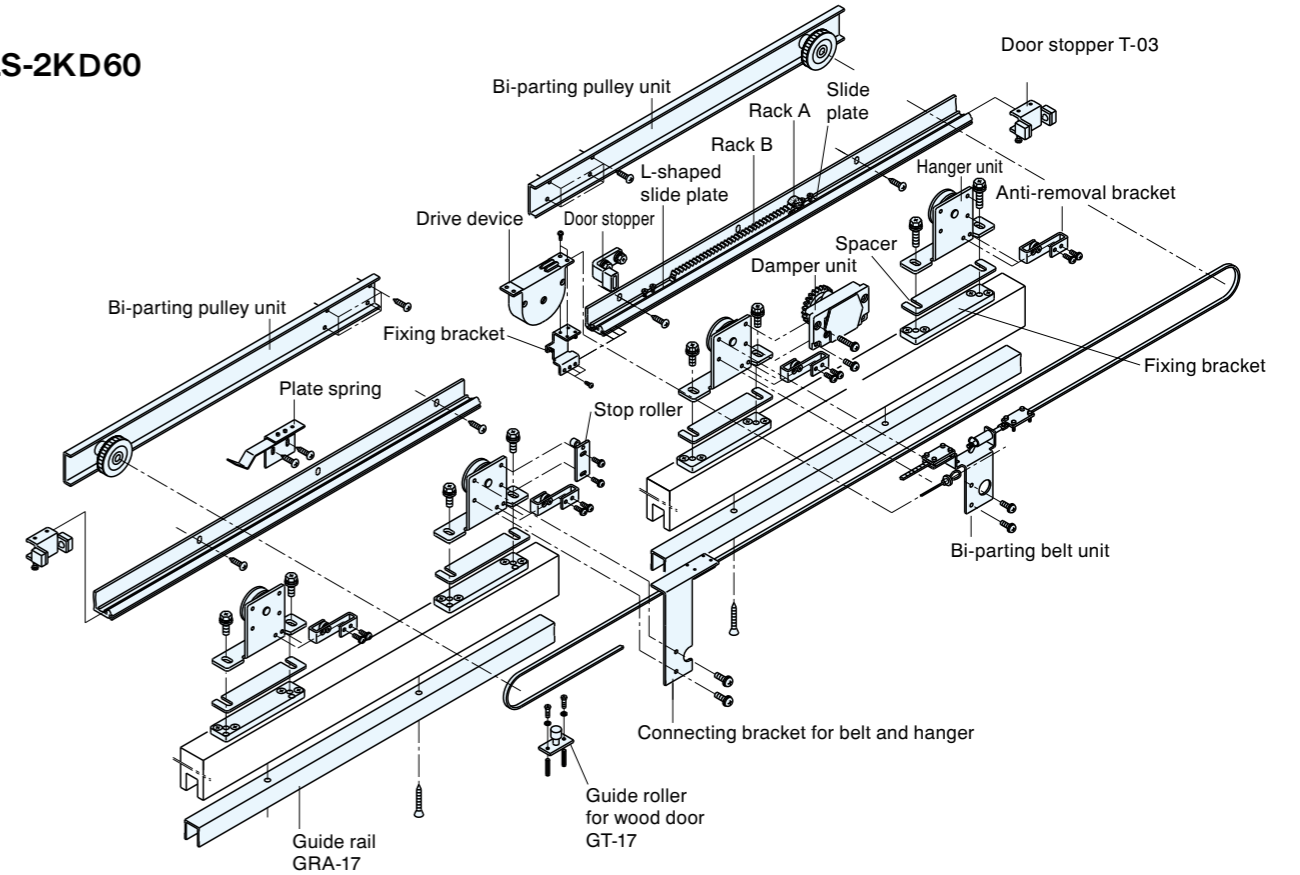
**SLS-2K50  
ST-110K**



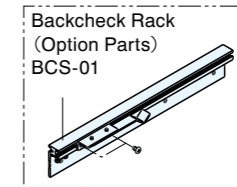
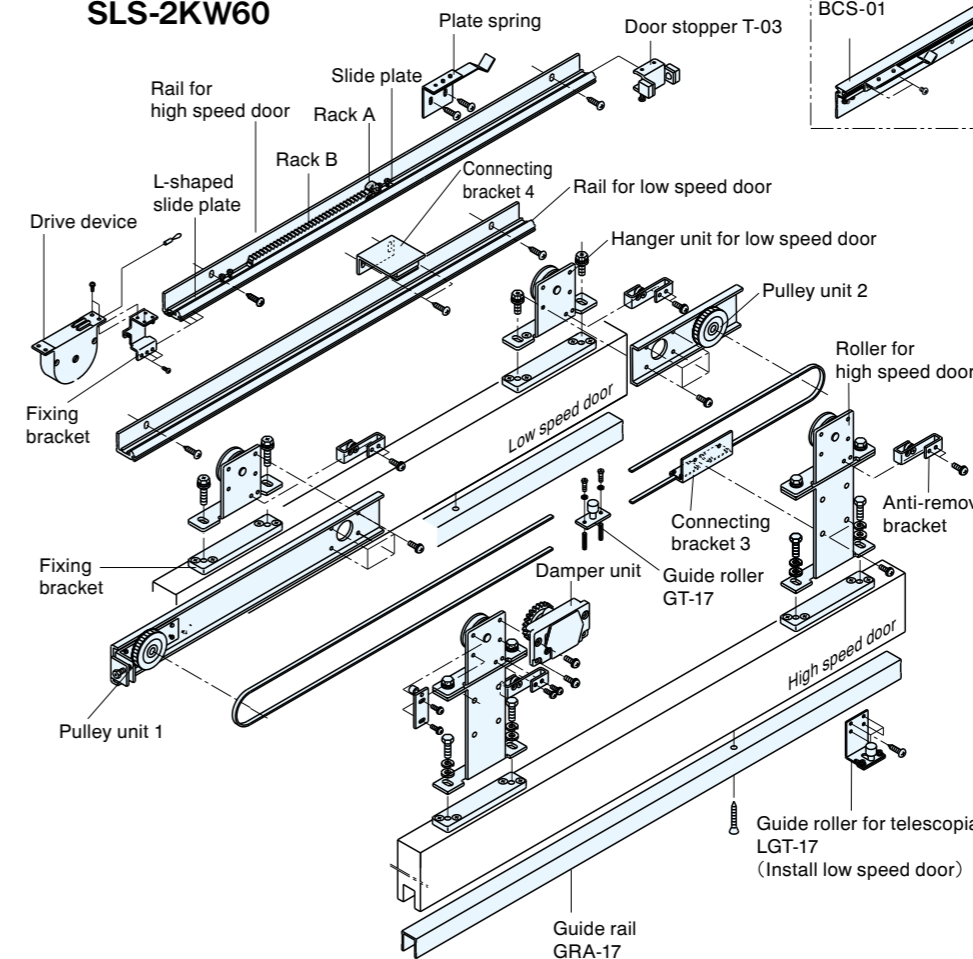
# PARTS COMPONENTS

This is rightward with hold-open device

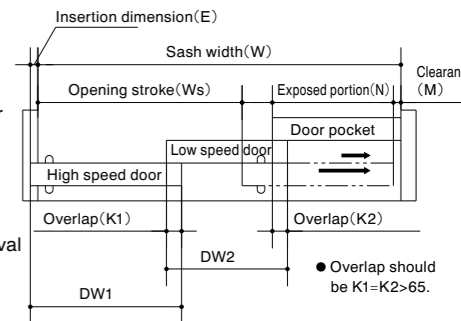
**SLS-2KD60**



**SLS-2KW60**



## 【Telescopia effective opening】



### Dimensions required to be specified

- Sash width (W)
- Exposed portion (N)
- Overlap (K1) and (K2)
- Insertion dimension (E)
- Clearance between door tail and vertical frame when door is fully open (M)

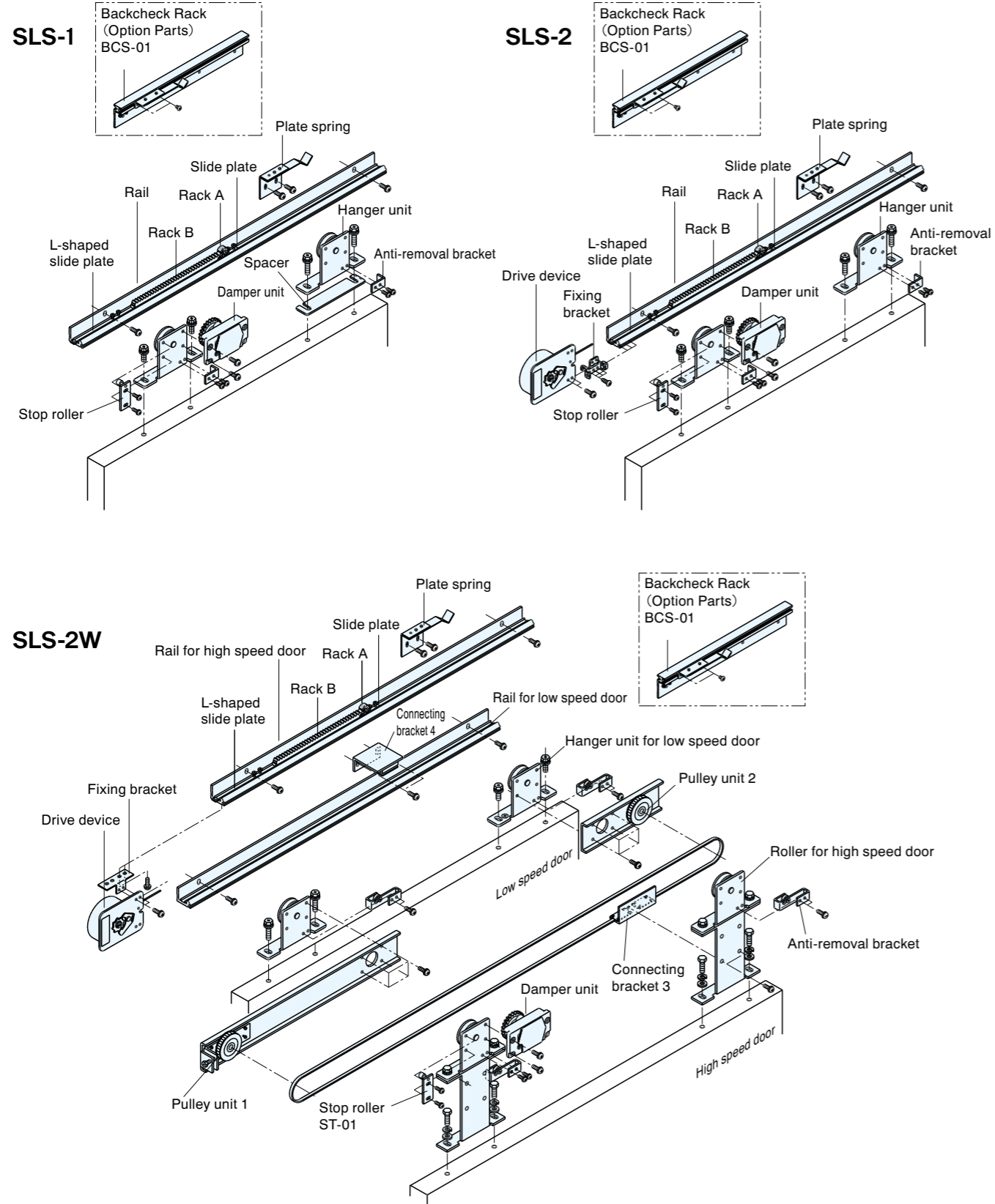
$$DW1 = (E + W + 2 \times N + K1 + K2 - M) / 3$$

$$DW2 = (E + W - N + K1 + K2 - M) / 3$$

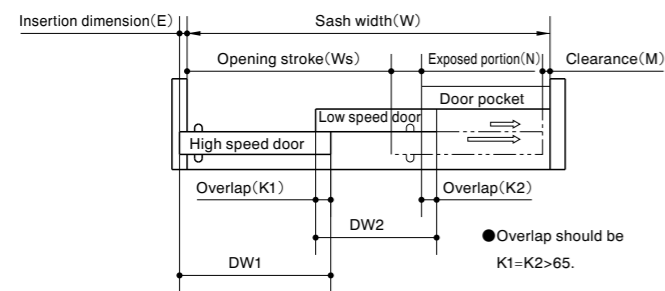
$$Ws = ((W - N - M) \times 2 - (K1 + K2 + E)) / 3$$

# PARTS COMPONENTS

This is rightward with hold-open device



## 【Telescopia effective opening】



Dimensions required to be specified

- Sash width(W)
- Exposed portion(N)
- Overlap (K1) and (K2)
- Insertion dimension(E)
- Clearance between door tail and vertical frame when door is fully open(M)

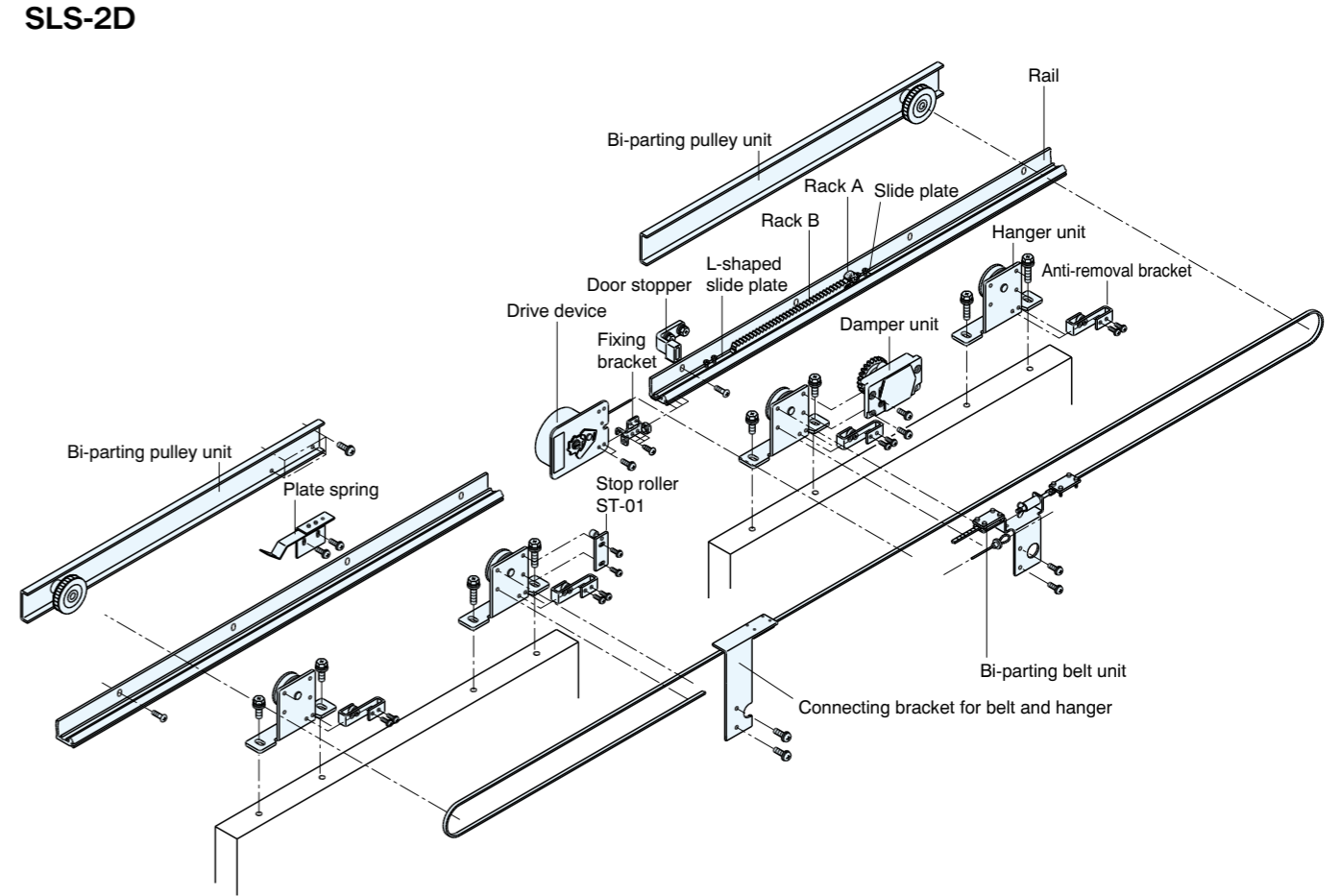
$$DW1 = (E + W + 2 \times N + K1 + K2 - M) / 3$$

$$DW2 = (E + W - N + K1 + K2 - M) / 3$$

$$Ws = ((W - N - M) \times 2 - (K1 + K2 + E)) / 3$$

# PARTS COMPONENTS

This is Bi-parting with hold-opne device

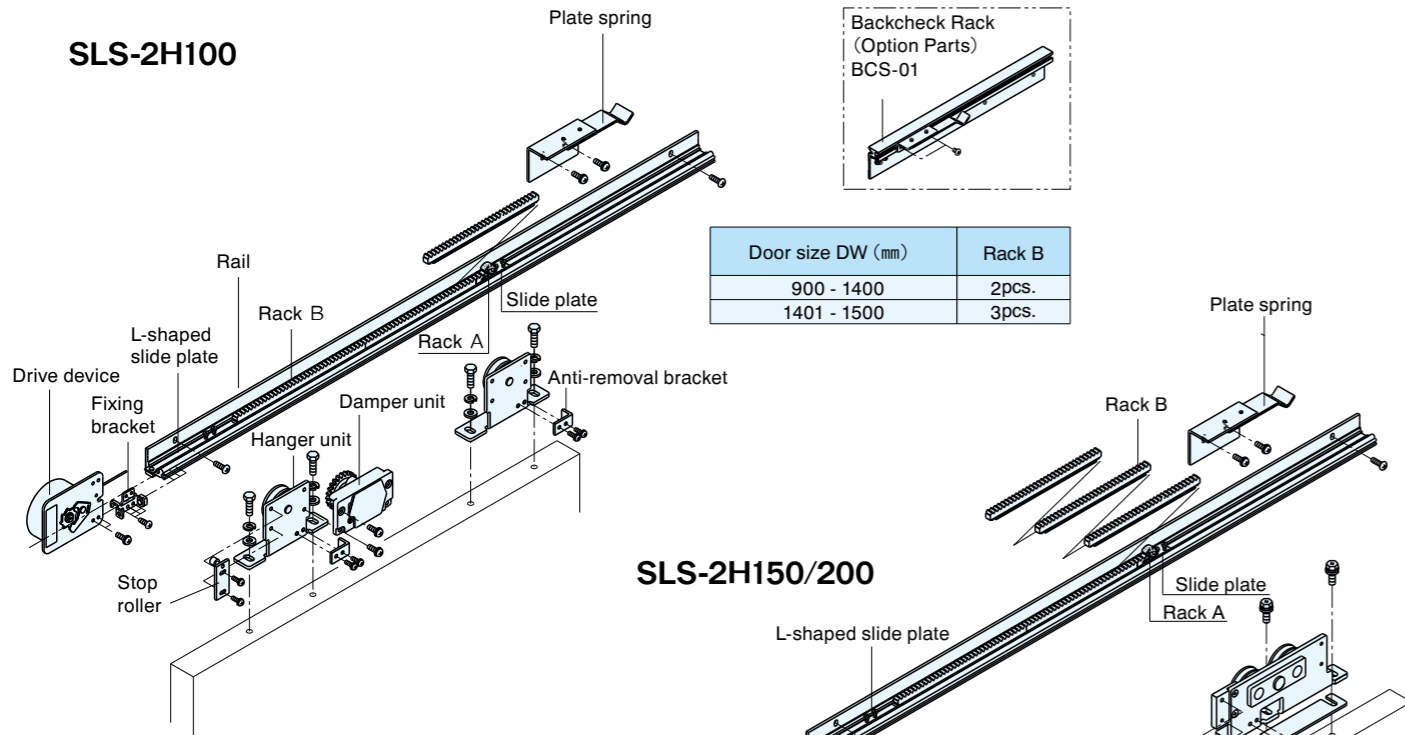




# PARTS COMPONENTS

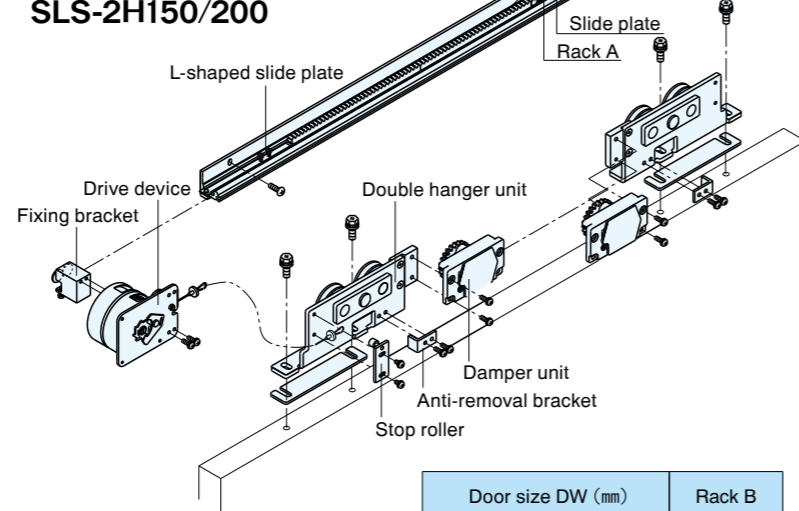
This is rightward with hold-open device

## SLS-2H100



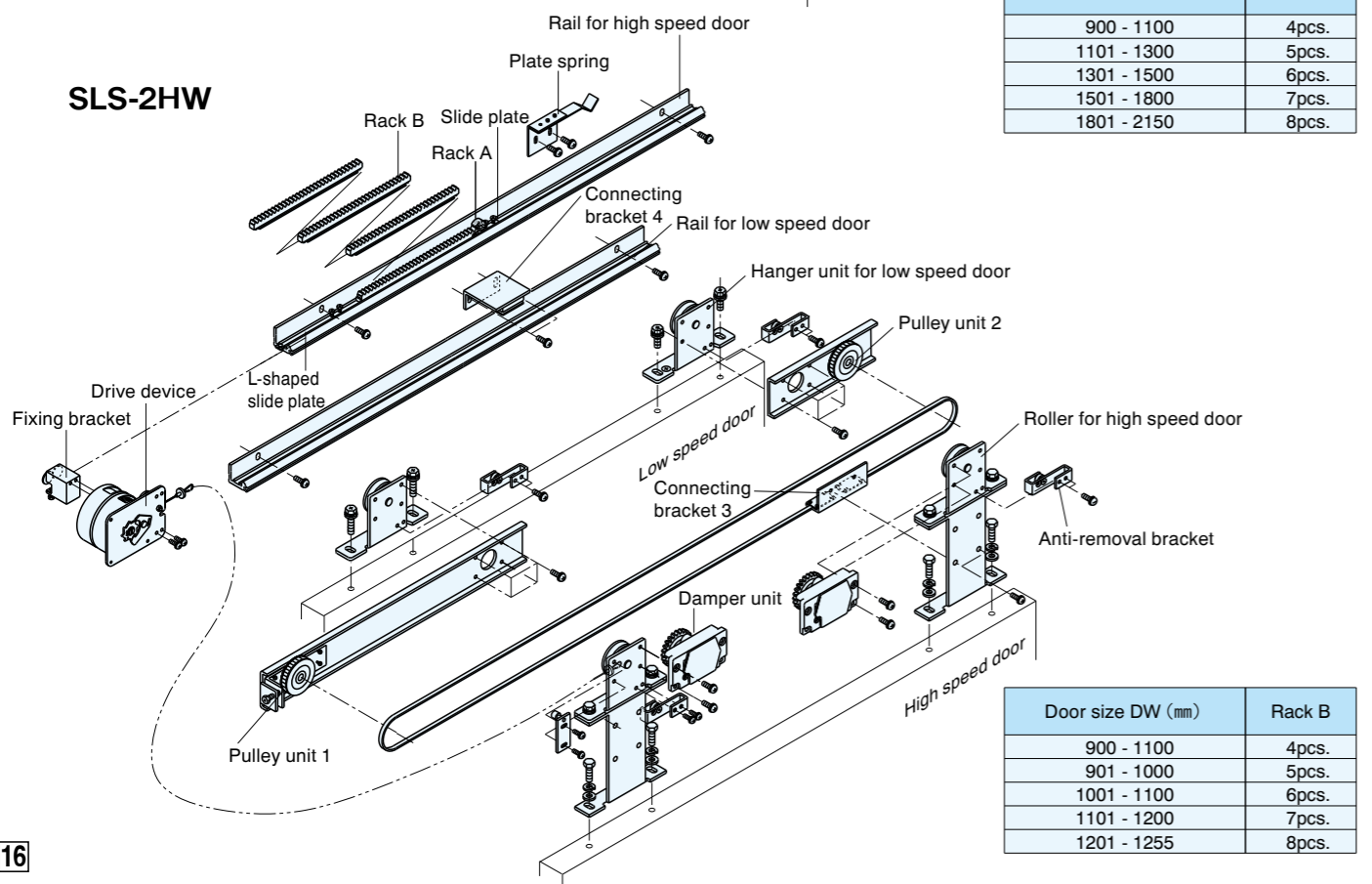
Door size DW (mm)	Rack B
900 - 1400	2pcs.
1401 - 1500	3pcs.

## SLS-2H150/200



Door size DW (mm)	Rack B
900 - 1100	4pcs.
1101 - 1300	5pcs.
1301 - 1500	6pcs.
1501 - 1800	7pcs.
1801 - 2150	8pcs.

## SLS-2HW

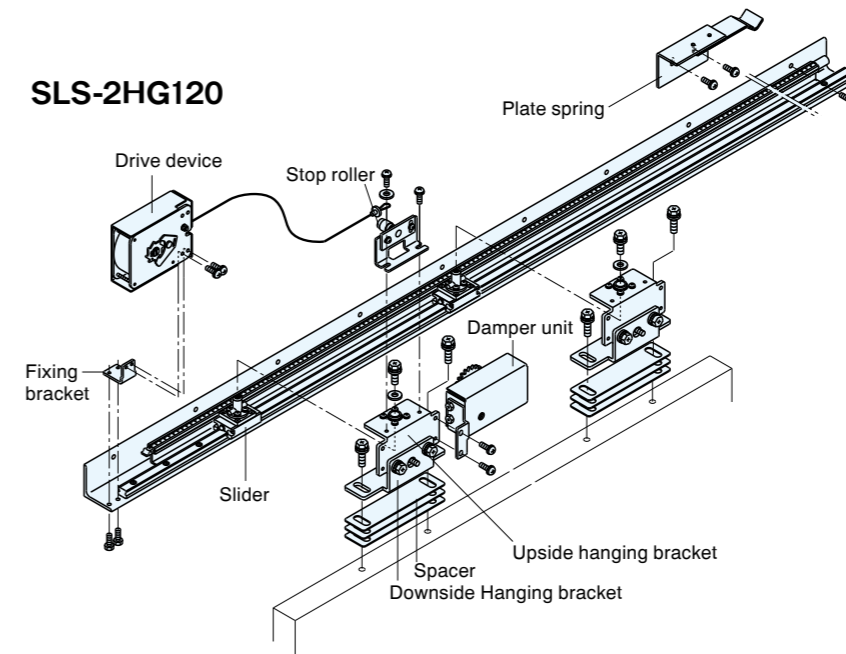


Door size DW (mm)	Rack B
900 - 1100	4pcs.
901 - 1000	5pcs.
1001 - 1100	6pcs.
1101 - 1200	7pcs.
1201 - 1255	8pcs.

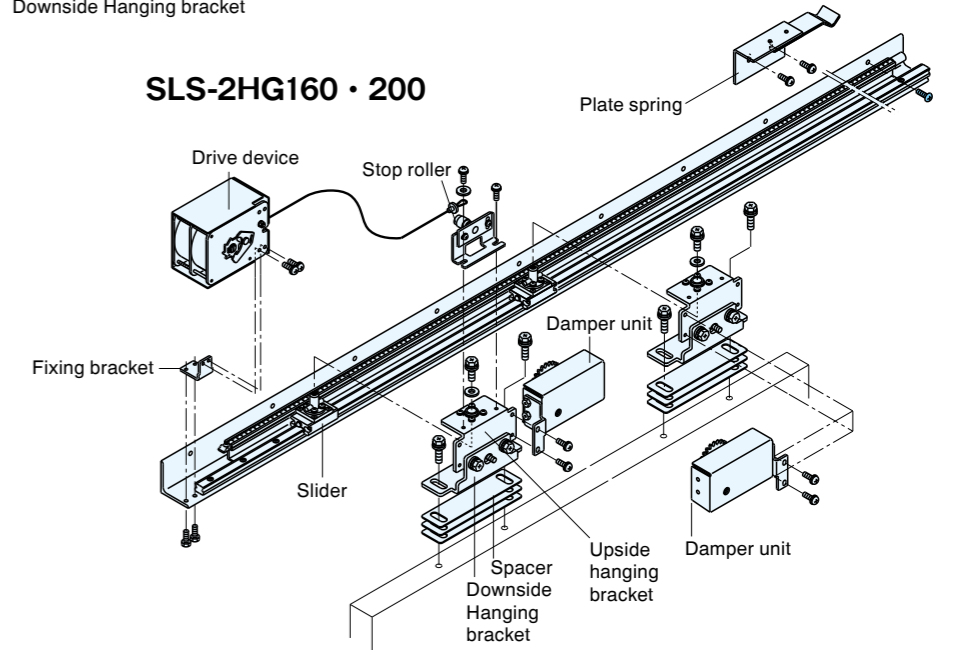
# PARTS COMPONENTS

This is rightward with hold-open device

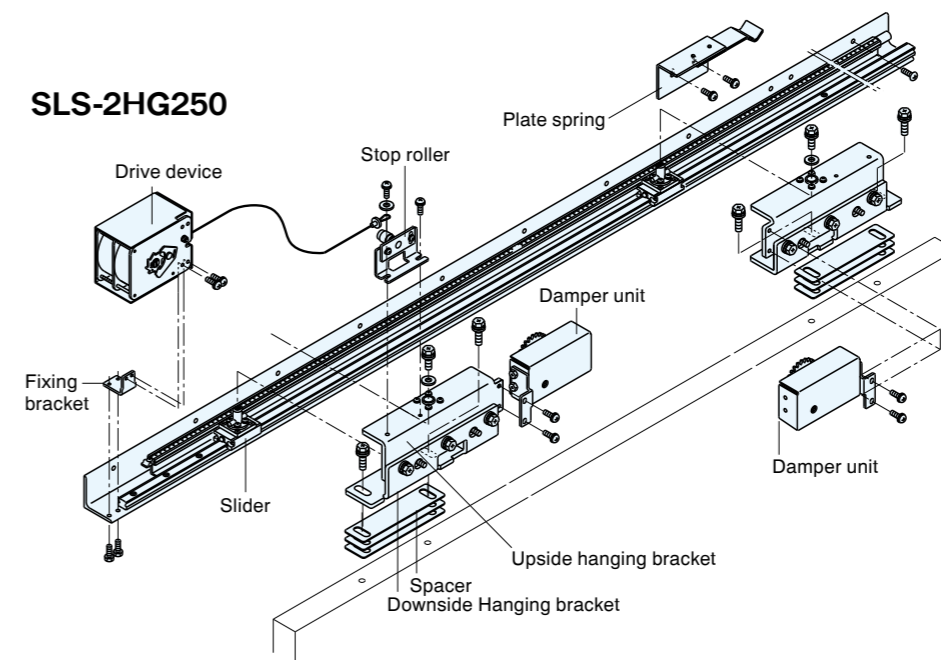
## SLS-2HG120



## SLS-2HG160 · 200



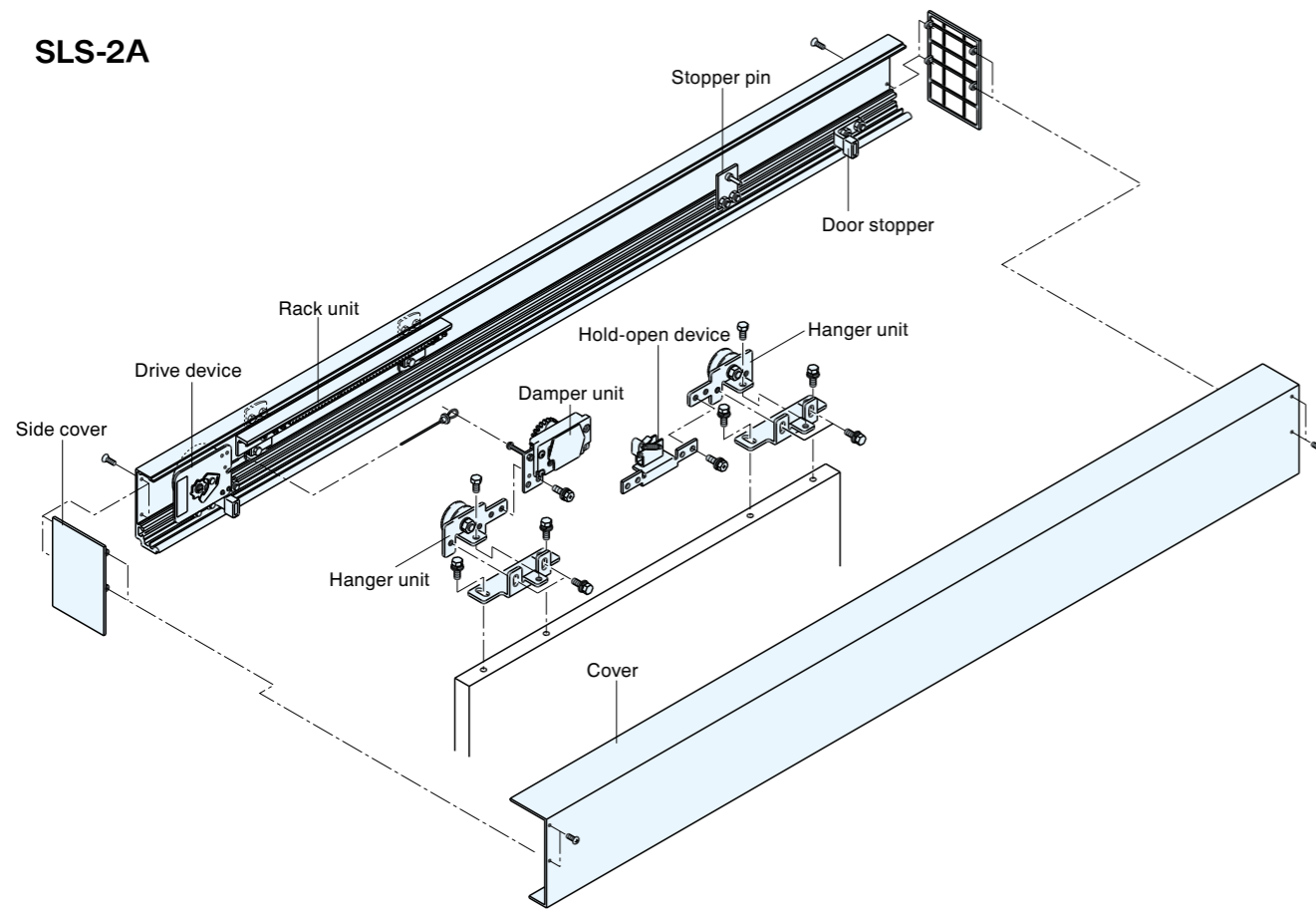
## SLS-2HG250



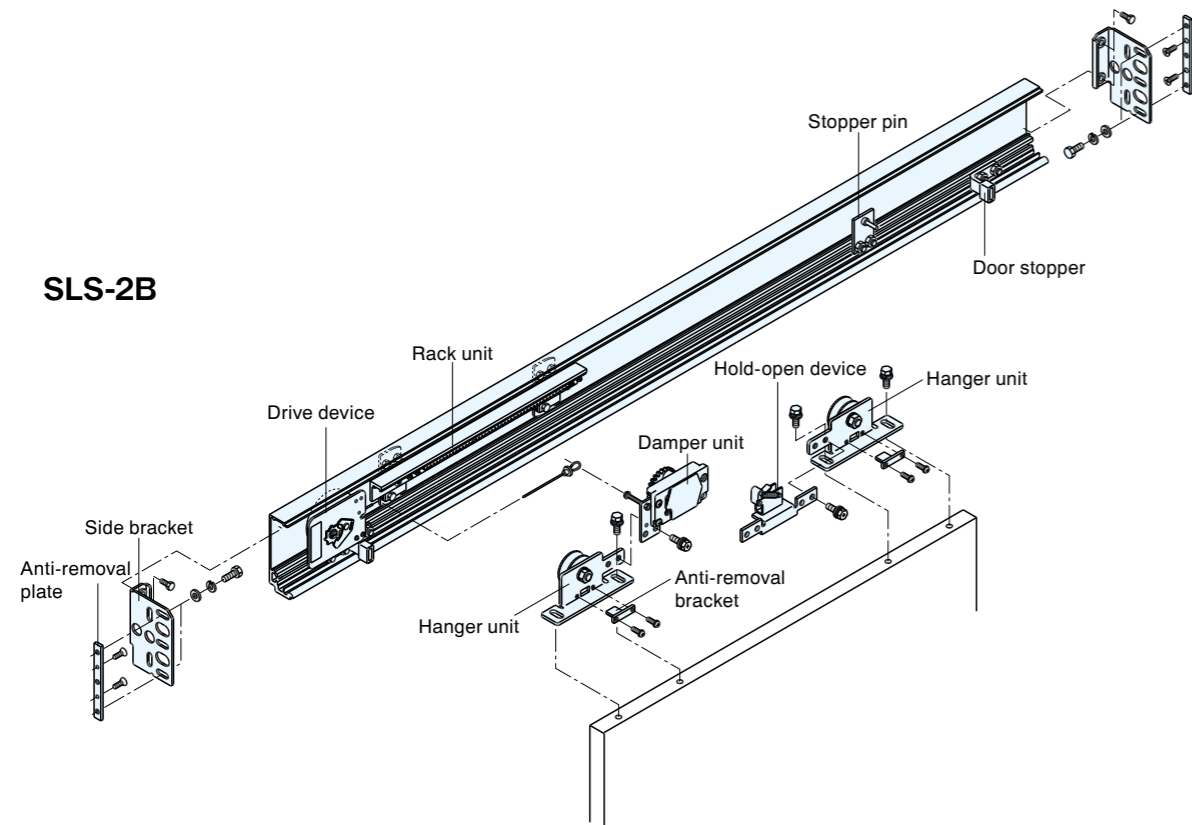
# PARTS COMPONENTS

This is rightward with hold-open device

## SLS-2A



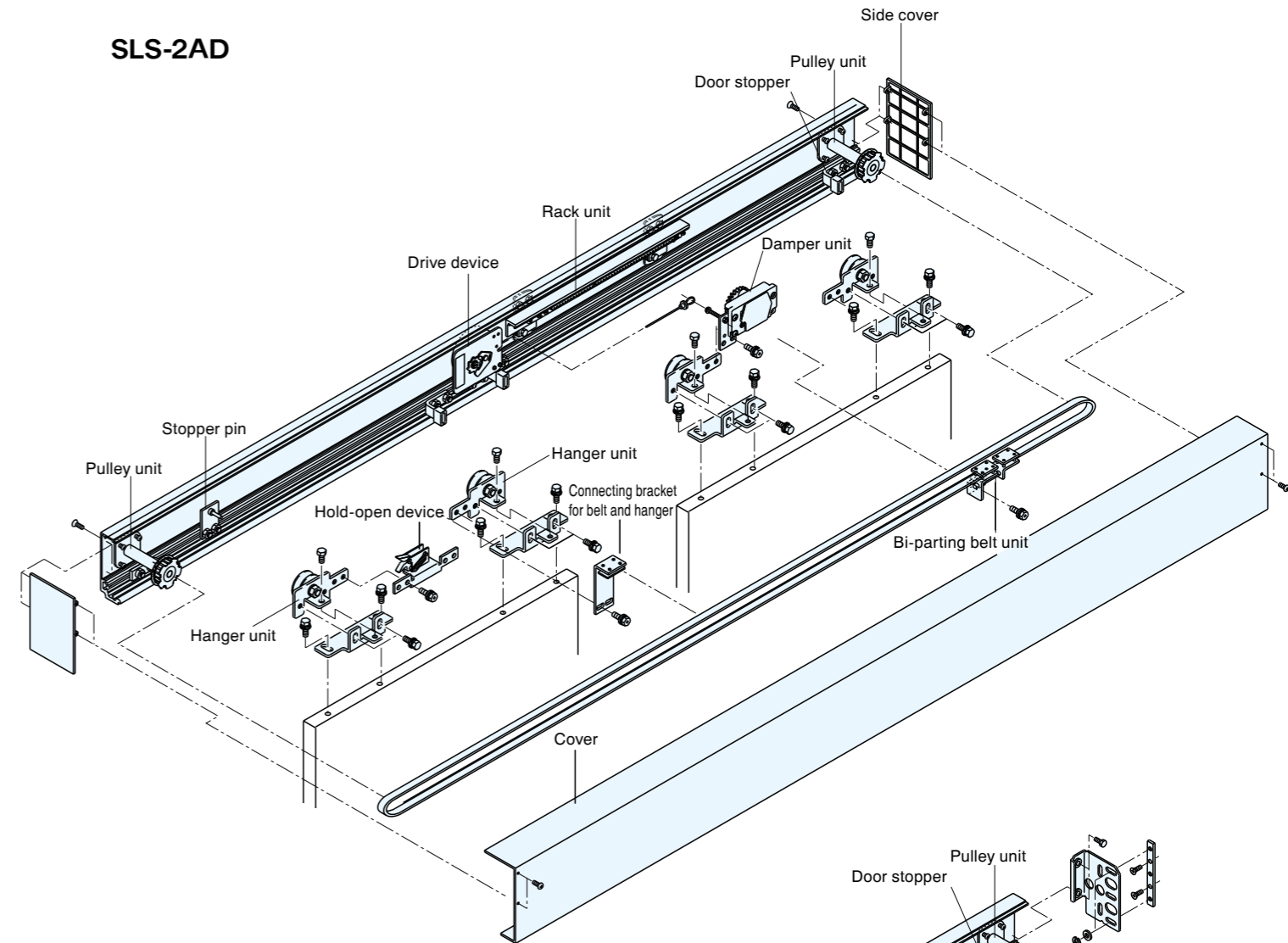
## SLS-2B



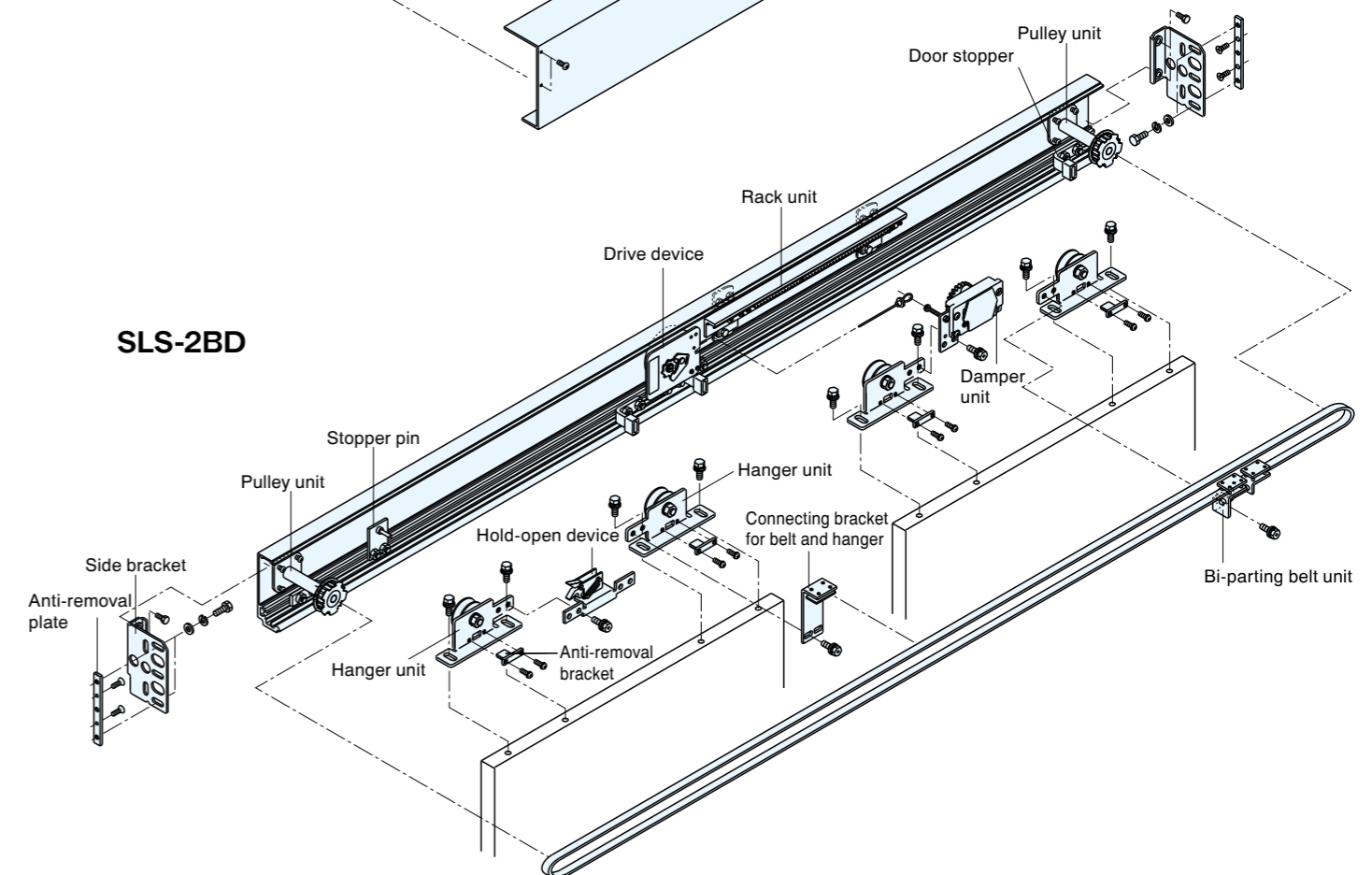
# PARTS COMPONENTS

This is Bi-parting with hold-opne device

## SLS-2AD



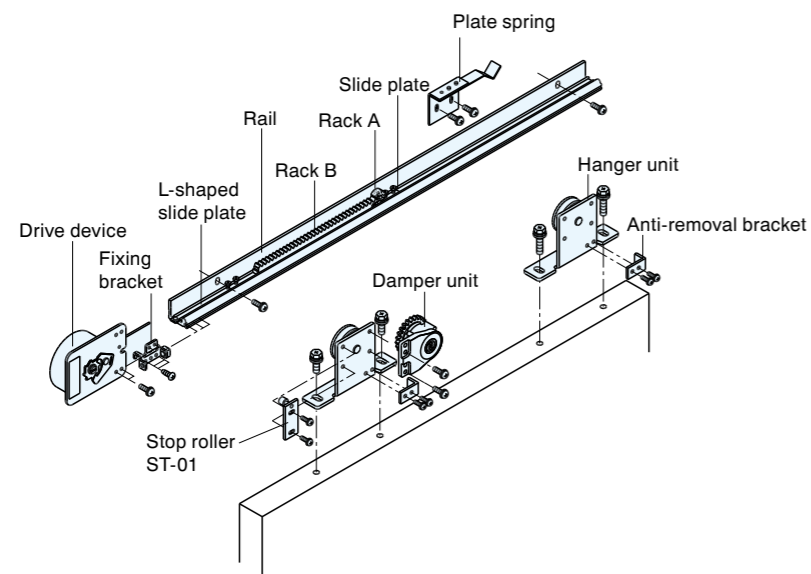
## SLS-2BD



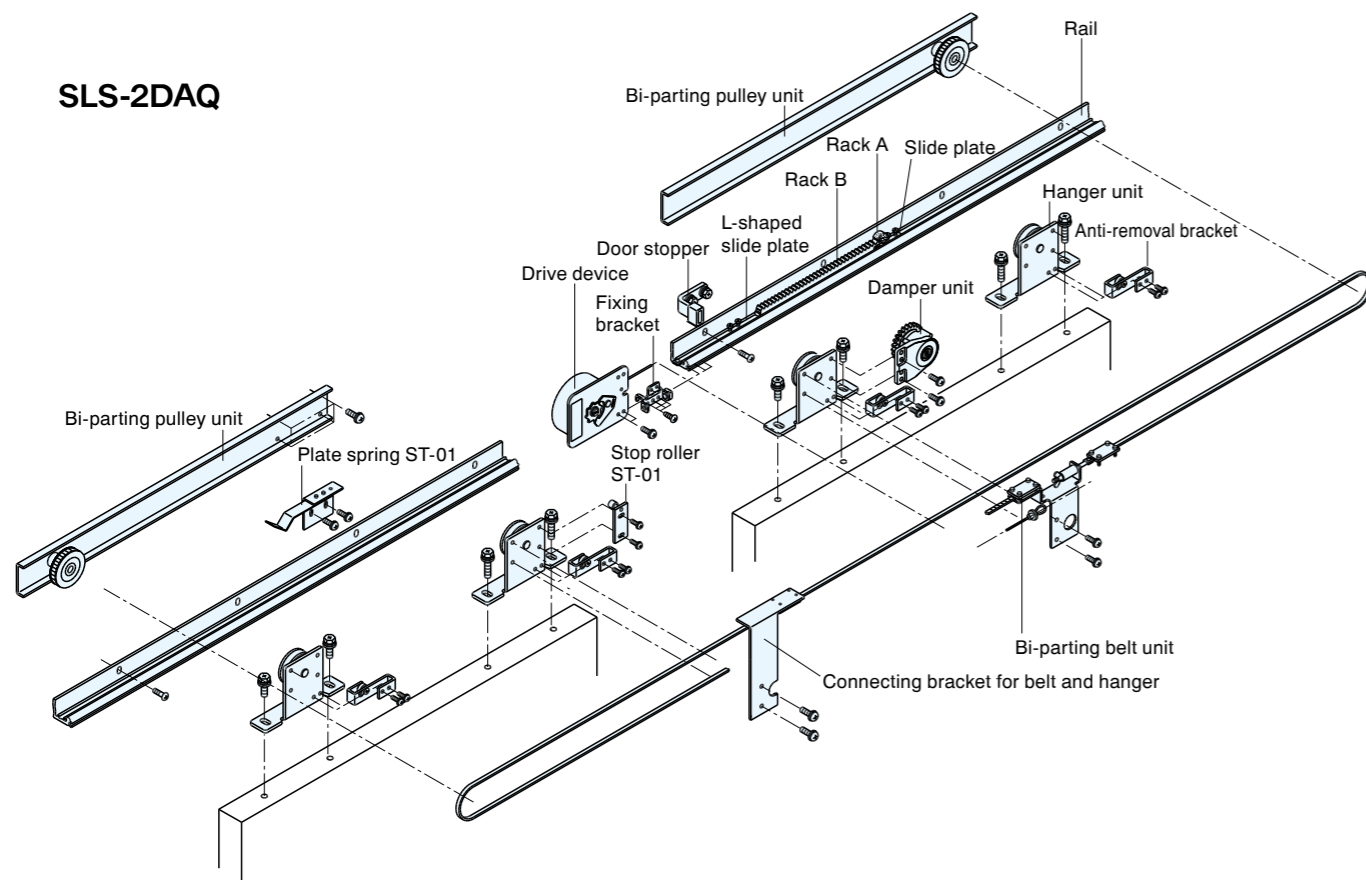
# PARTS COMPONENTS

This is rightward with hold-open device

## SLS-2AQ



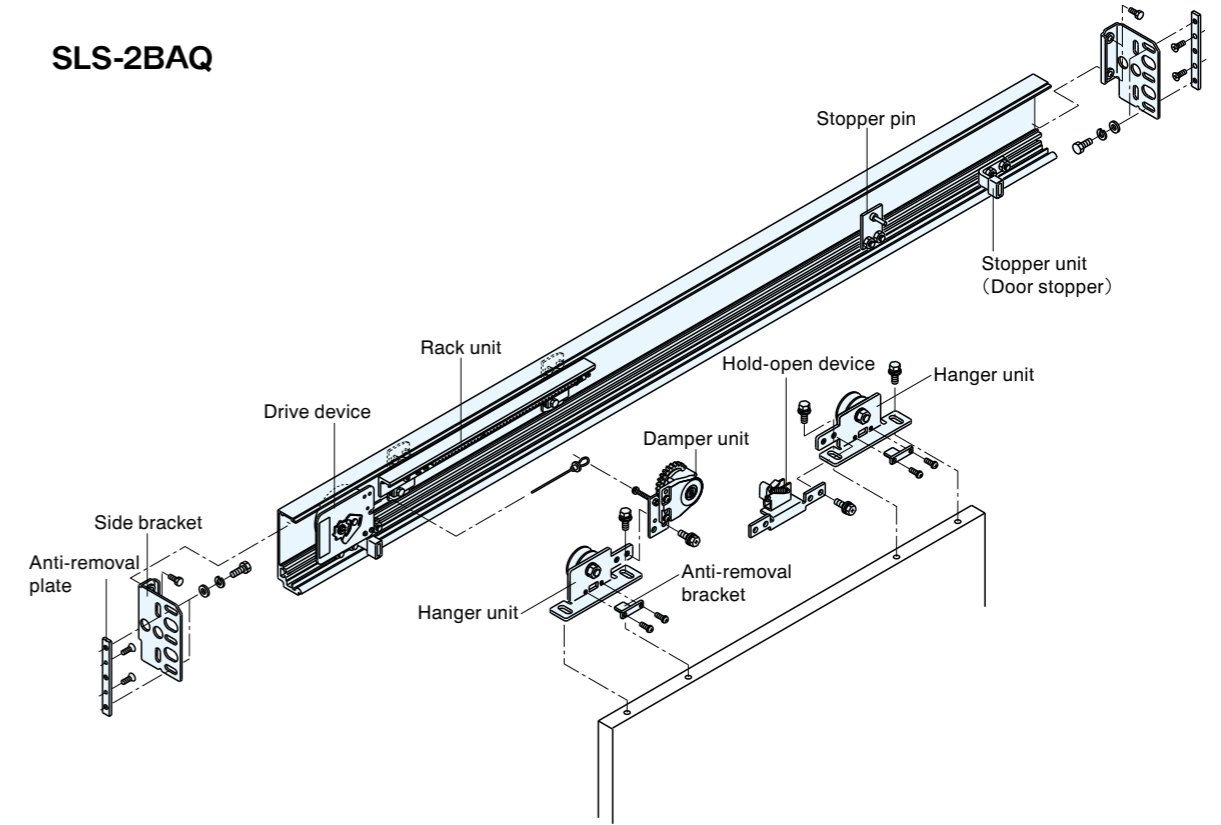
## SLS-2DAQ



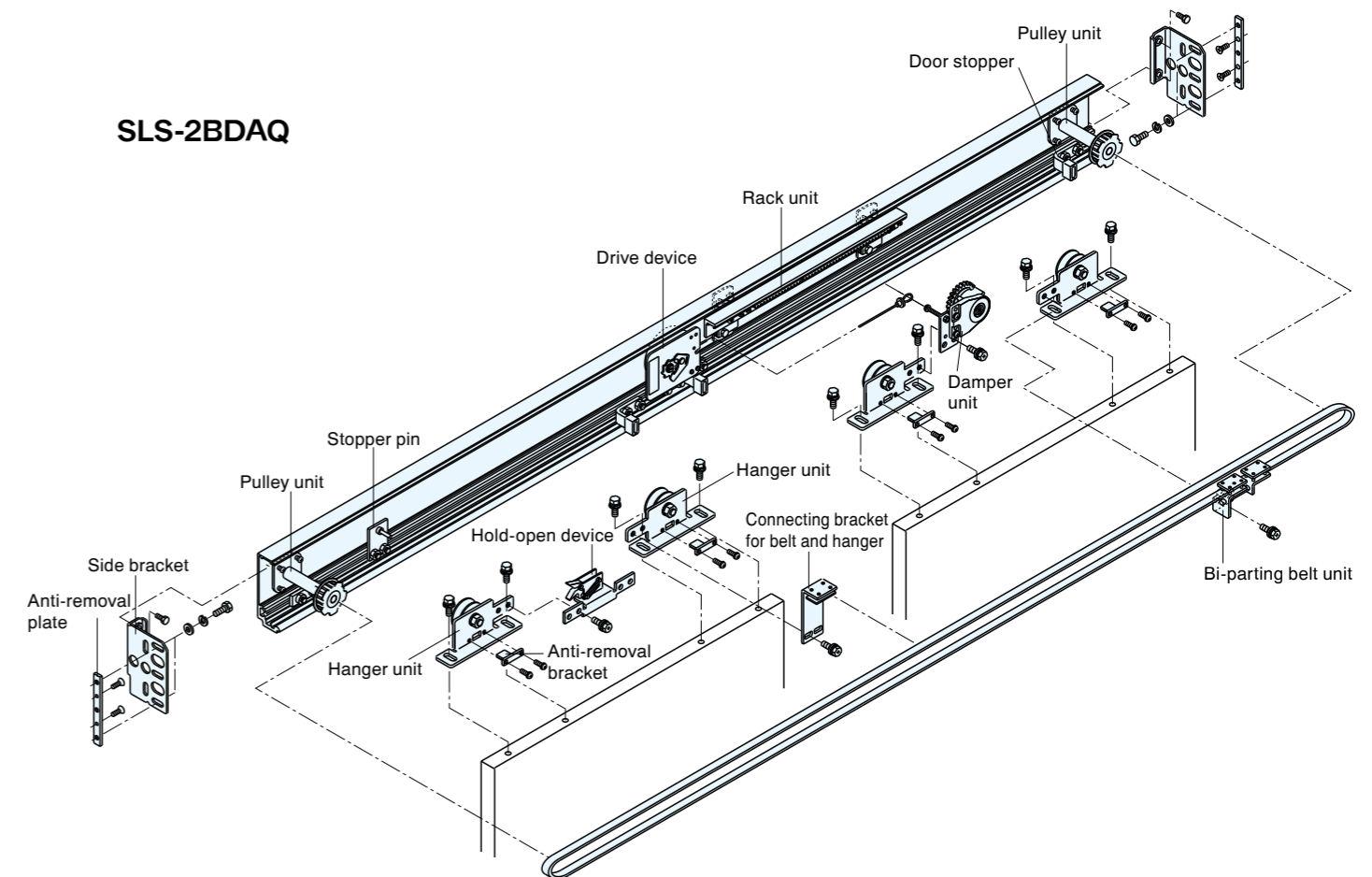
# PARTS COMPONENTS

This is Bi-parting with hold-opene device

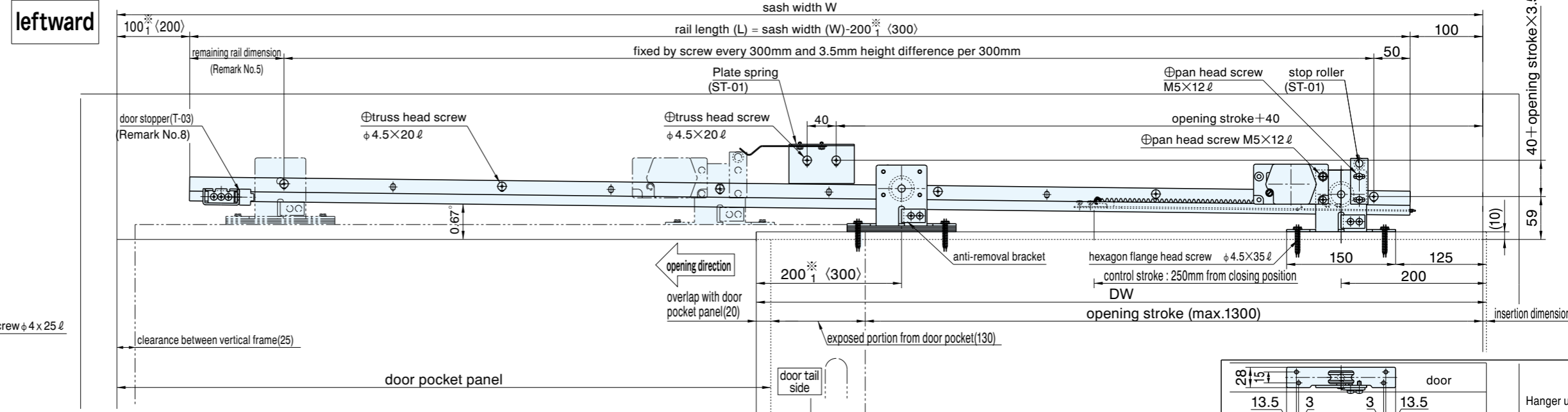
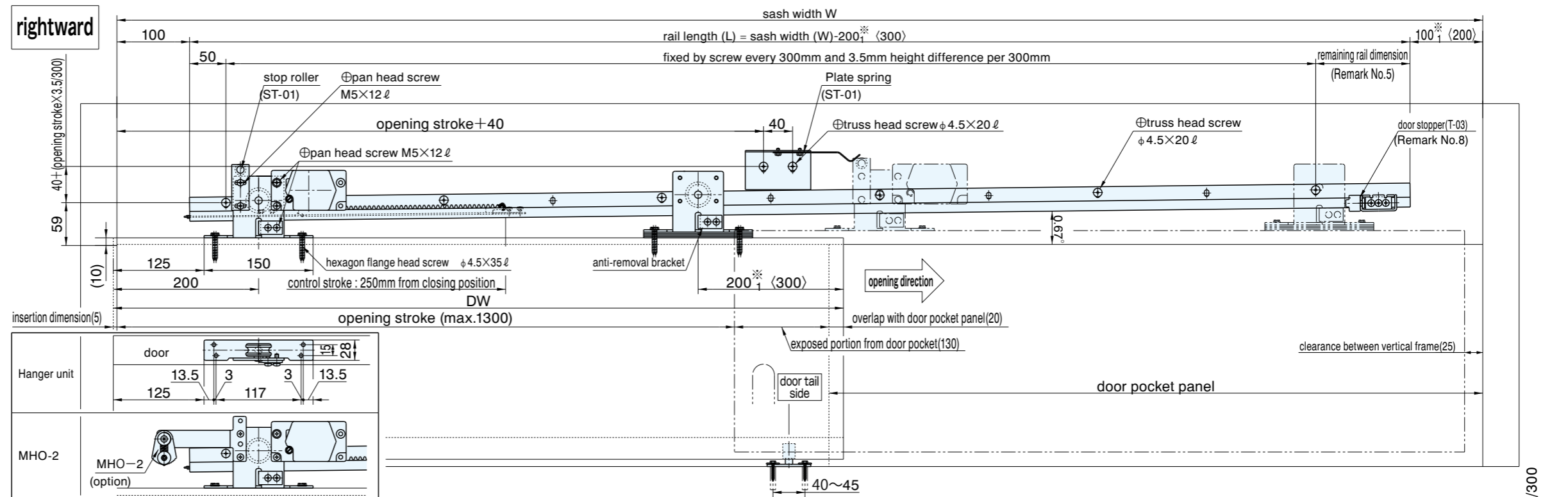
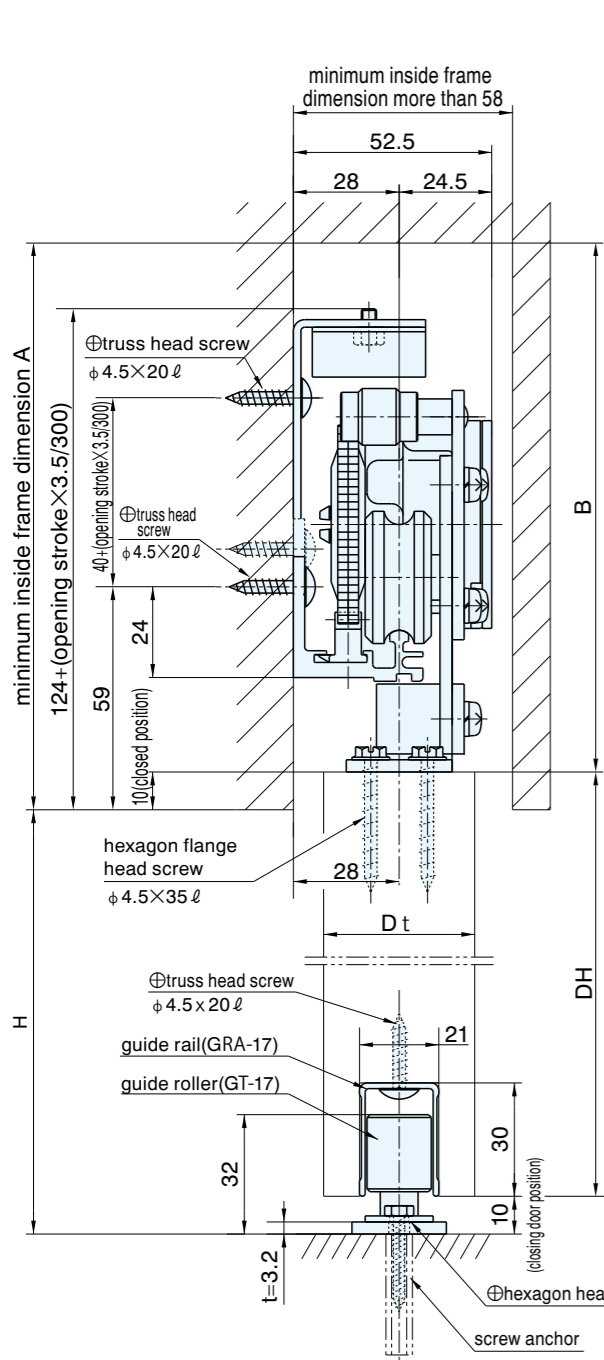
## SLS-2BAQ



## SLS-2BDAQ



# SLS-1K30 SLOPE TYPE SINGLE OPENING FOR WOOD DOOR



Hole pattern on inside view

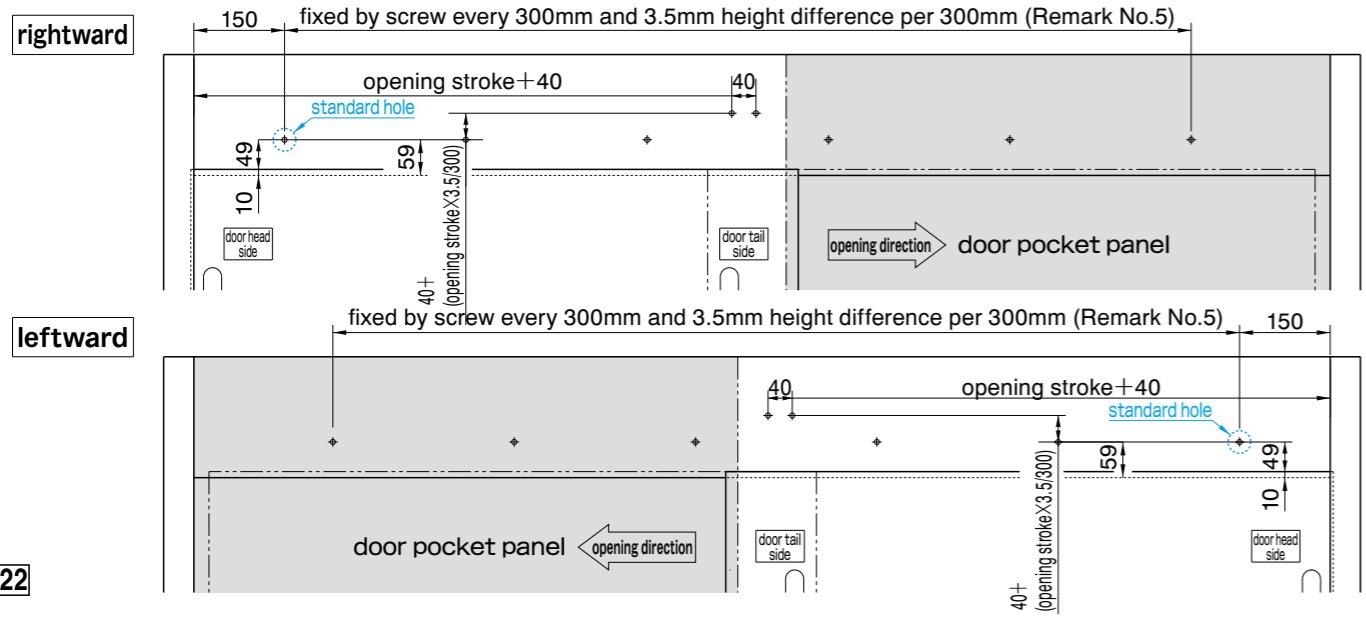


Table 1

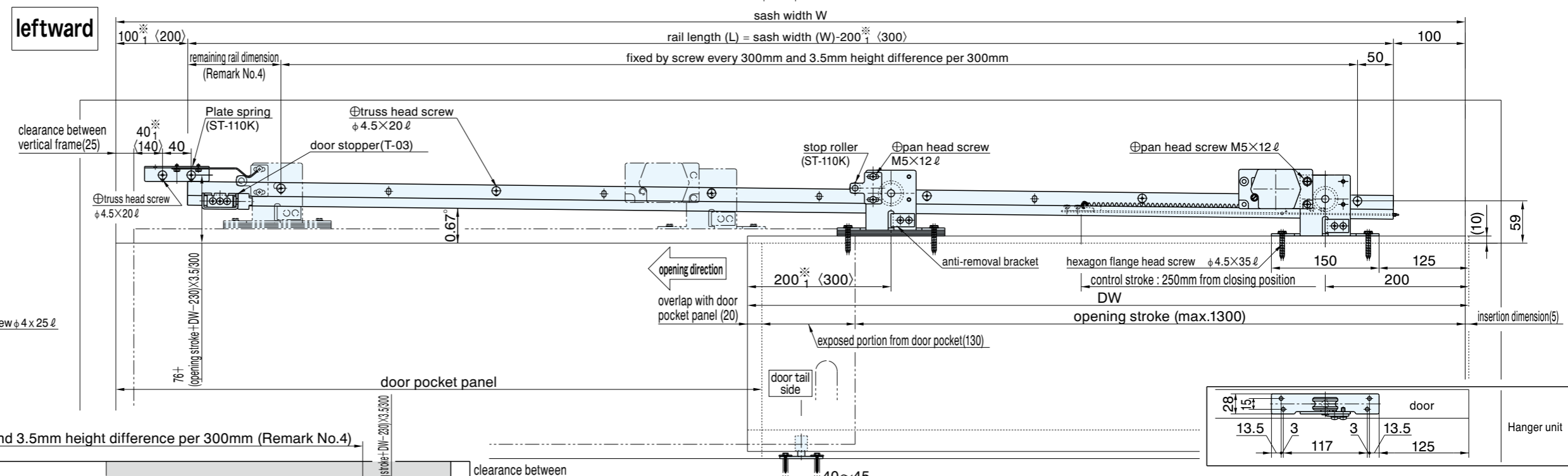
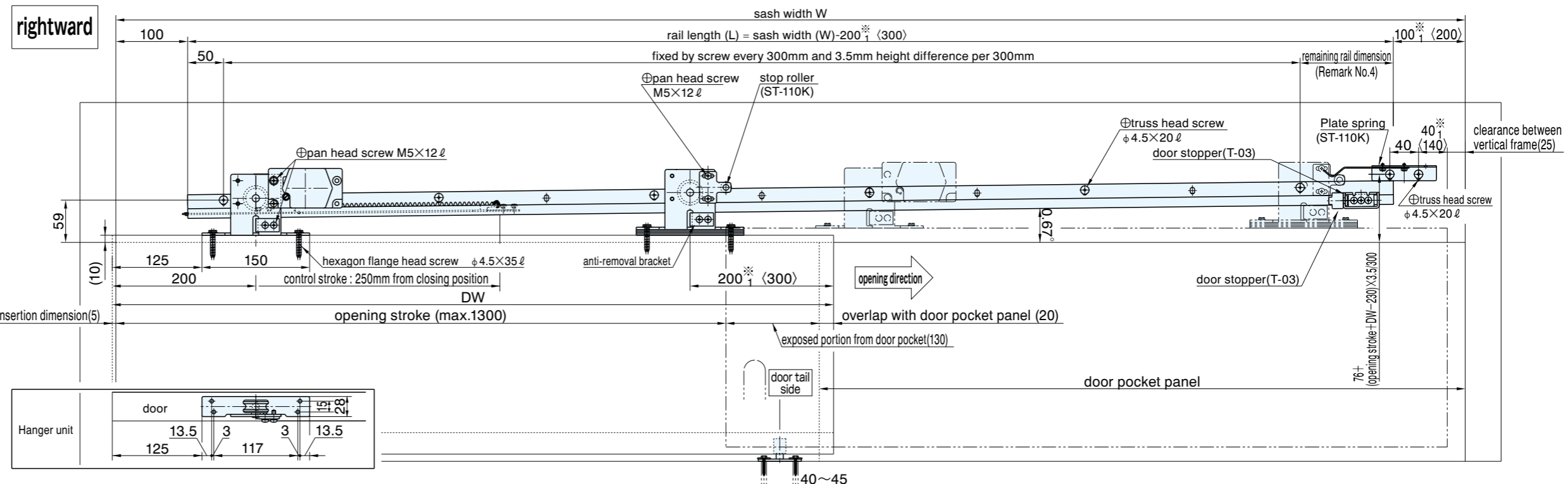
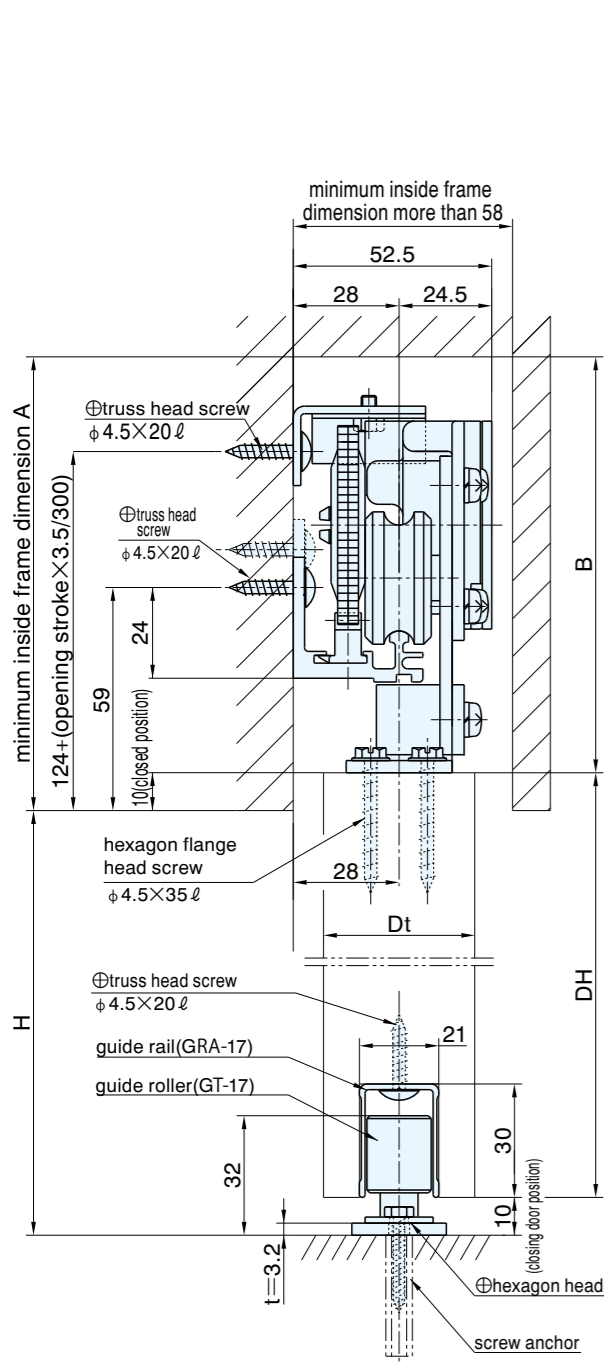
Door size DW(mm)	Necessary spacer quantity for hanger unit	Minimum inside frame dimension A	Dimension B
600 - 700	door tail side 4pcs.	140	130
701 - 800	door tail side 5pcs.		
801 - 900	door tail side 6pcs.		
901 - 1000	door tail side 7pcs.		
1001 - 1100	door tail side 8pcs.		
1101 - 1200	door tail side 9pcs.	150	140
1201 - 1300	door tail side 10pcs.		
1301 - 1450	door tail side 12pcs.		

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
With Hold-open	SLS-1K30	600 - 1450×2400	10 - 30

Remark

- This is used both for rightward and leftward.
- Hold-open device can not be combined with MHO-2.
- Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
- Refer to Table 1 necessary spacer quantity for hanger unit.
- Fixed by a screw every 300mm and 3.5mm height difference per 300mm. If the remaining rail more than 155mm, fixed by a screw at a position 150mm away from the final position and with an elevation difference of 1.8mm.
- In case of Door width 1350mm, use the dimensions specified in <sup>※1</sup> ( ).
- ( ) dimensions are reference dimensions.
- In case of storing-in-wall, install a door stopper on the door or frame instead of T-03.

# SLS-1K30 ST110K (OPTION) SLOPE TYPE SINGLE OPENING FOR WOOD DOOR



## Hole pattern on inside view

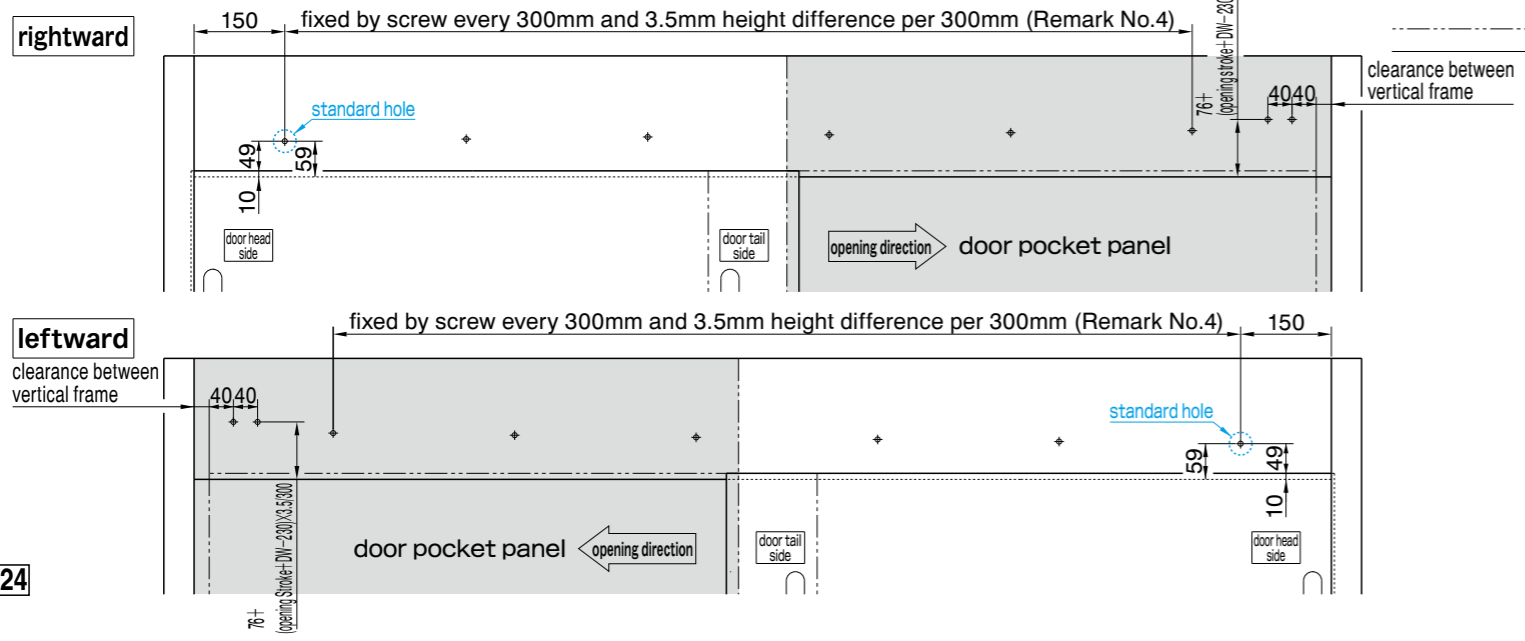


Table 1

Door size DW(mm)	Necessary spacer quantity for hanger unit	Minimum inside frame dimension A	Dimension B
600 - 700	door tail side 4pcs.	120	110
701 - 800	door tail side 5pcs.		
801 - 900	door tail side 6pcs.		
901 - 1000	door tail side 7pcs.		
1001 - 1100	door tail side 8pcs.		
1101 - 1200	door tail side 9pcs.	125	115
1201 - 1300	door tail side 10pcs.		
1301 - 1450	door tail side 12pcs.		

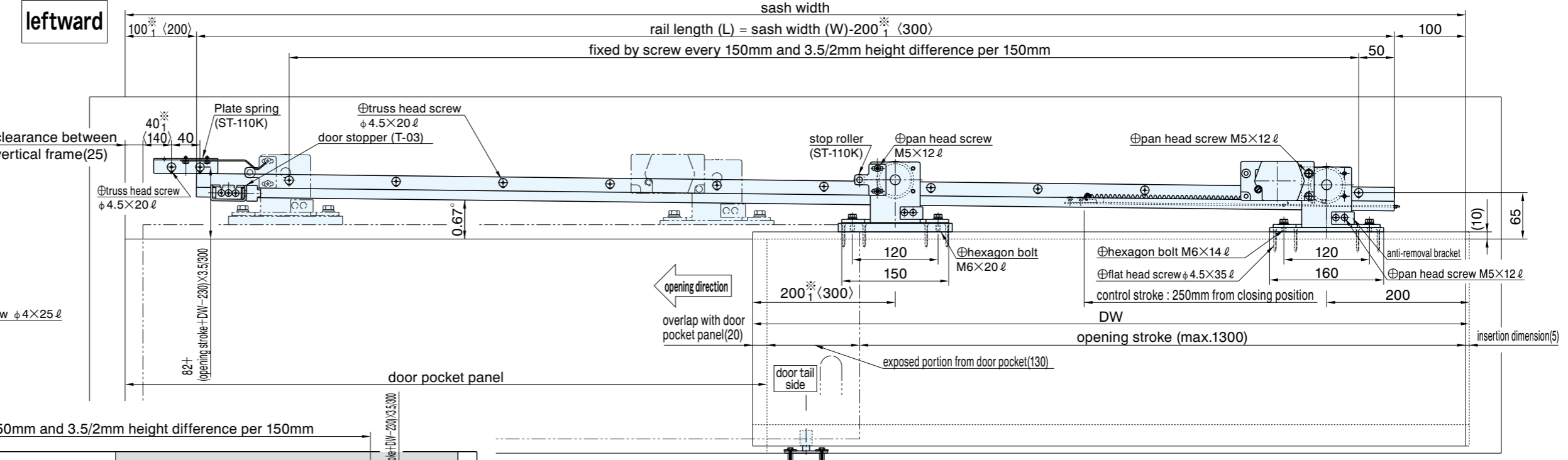
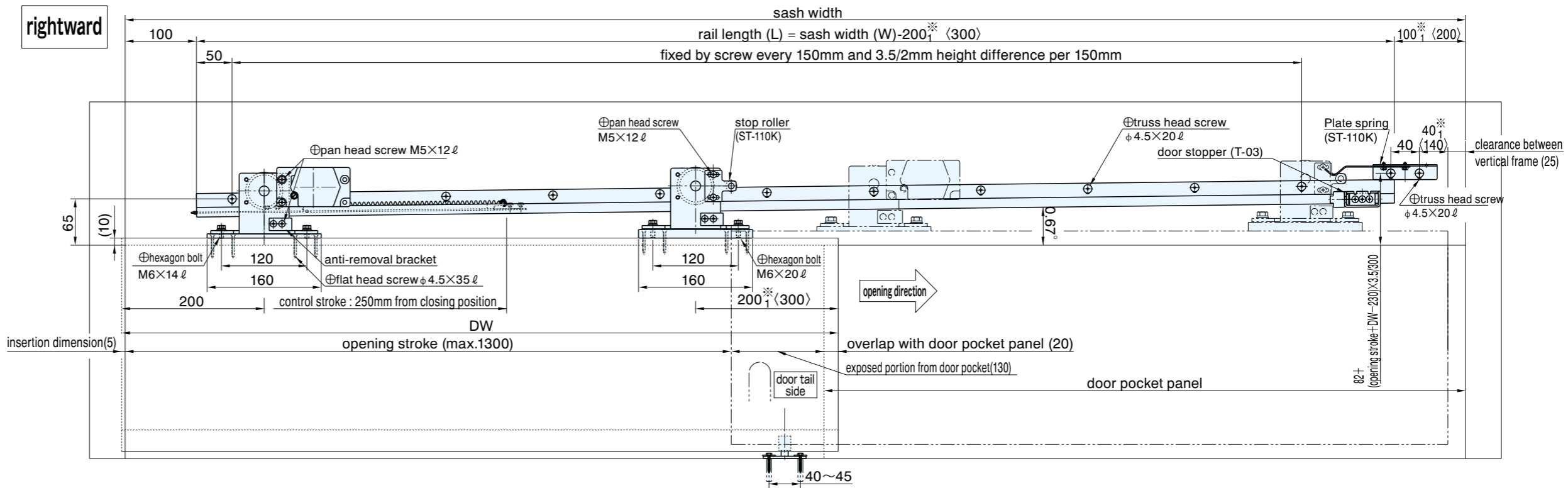
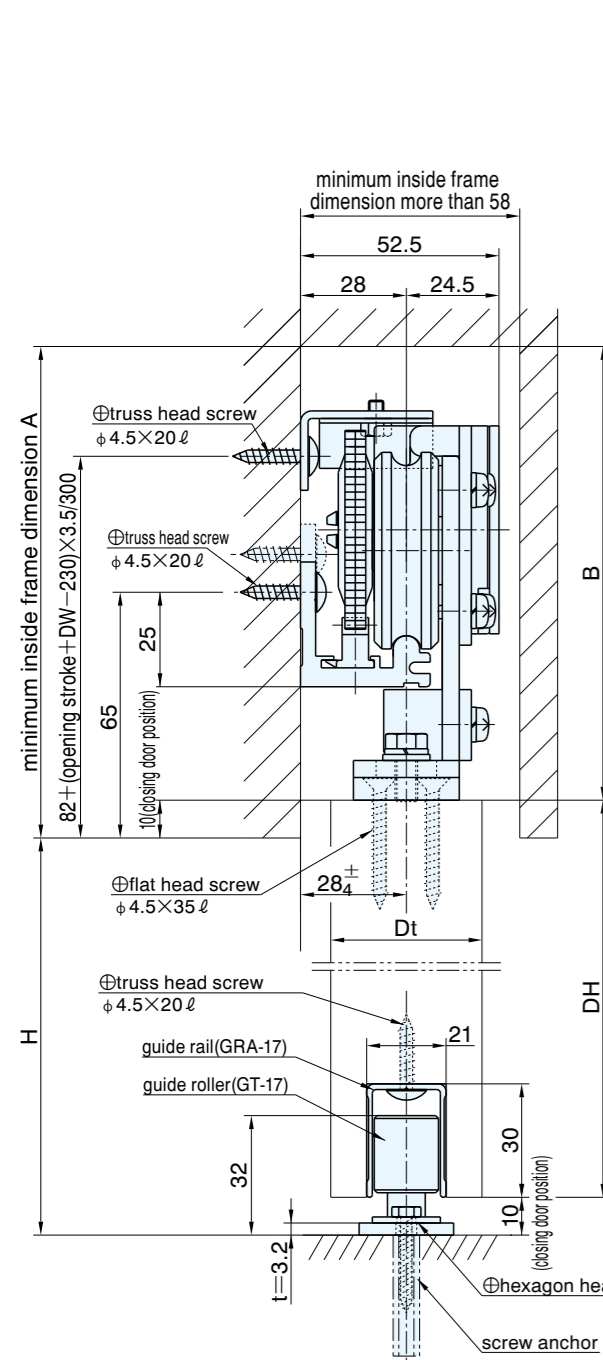
Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
With Hold-open	SLS-1K30	600 - 1450 $\times$ 2400	10 - 30

## Remark

- This is used both for rightward and leftward.
- Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
- Refer to Table 1 necessary spacer quantity for hanger unit.
- Fixed by a screw every 300mm and 3.5mm height difference per 300mm. If the remaining rail more than 155mm, fixed by a screw at a position 150mm away from the final position and with an elevation difference of 1.8mm.
- In case of Door width 1350mm, use the dimensions specified in ( ).
- ( ) dimensions are reference dimensions.



# SLS-1K50 ST110K (OPTION) SLOPE TYPE SINGLE OPENING FOR WOOD DOOR



## Hole pattern on inside view

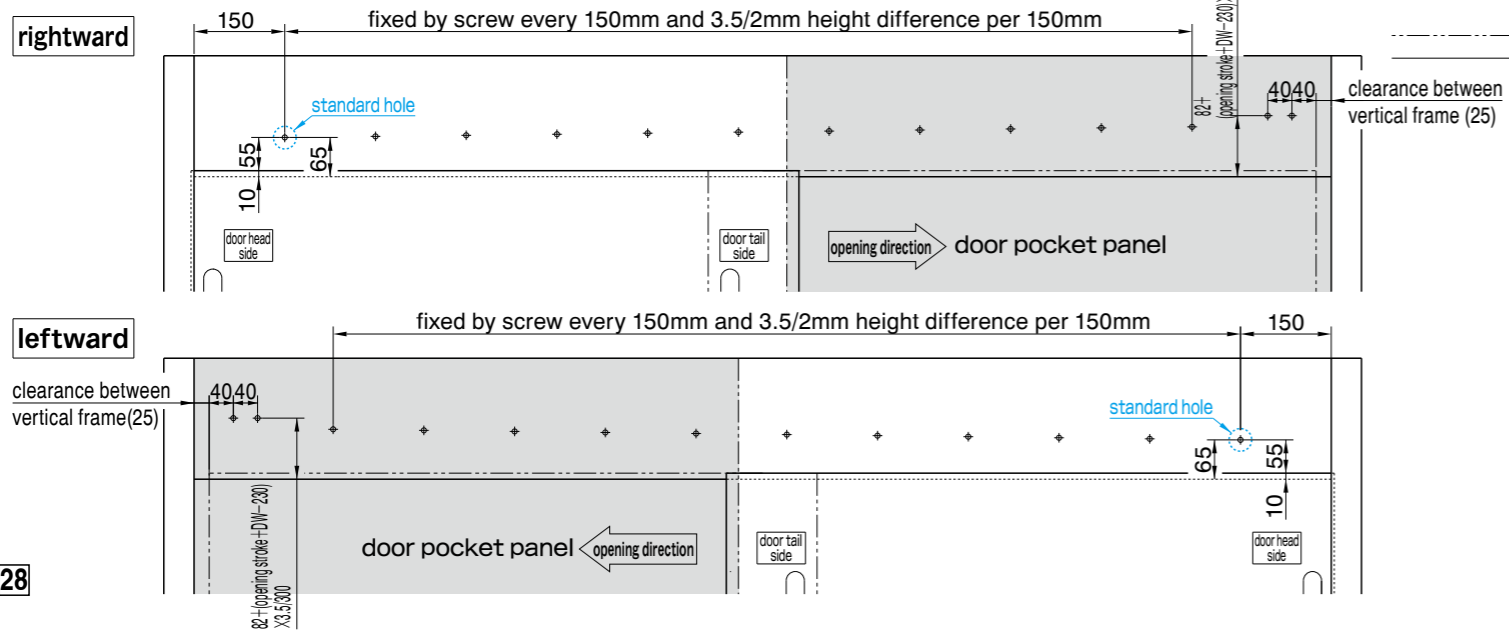


Table 1

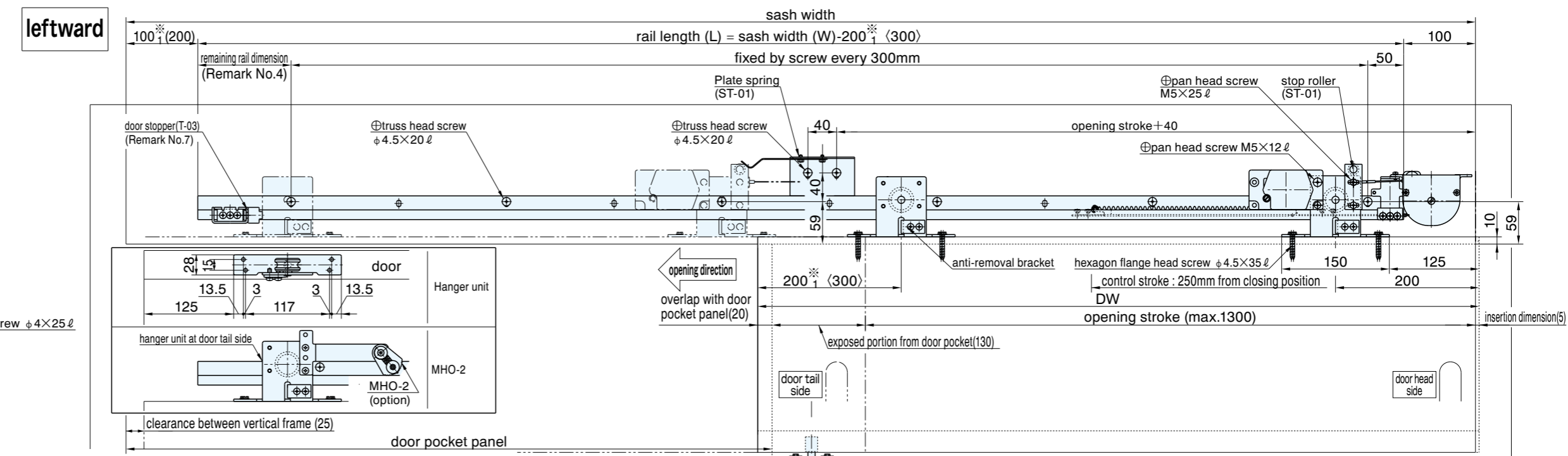
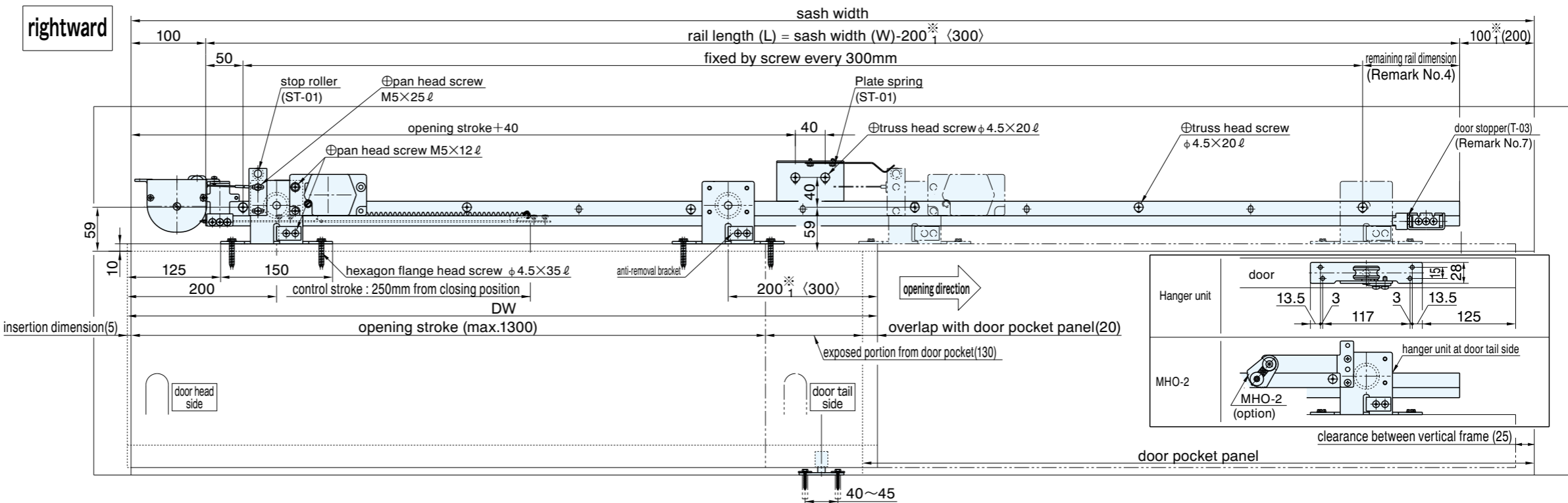
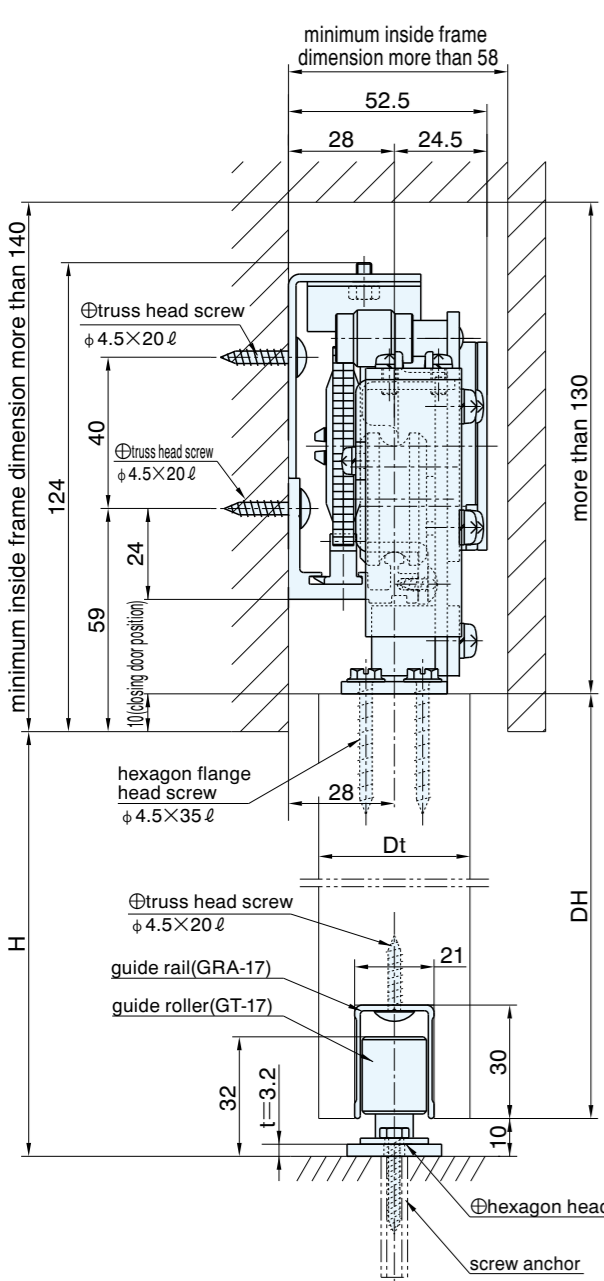
Door size DW(mm)	Necessary spacer quantity for hanger unit	Minimum inside frame dimension A	Dimension B
600 - 700	door head side 2pcs.	130	120
701 - 800	door head side 1pcs.		
801 - 900	Not necessary		
901 - 1000	door tail side 1pcs.		
1001 - 1100	door tail side 2pcs.	135	125
1101 - 1200	door tail side 3pcs.		
1201 - 1300	door tail side 4pcs.		
1301 - 1450	door tail side 6pcs.		

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
With Hold-open	SLS-1K50	600 - 1450×2400	10 - 50

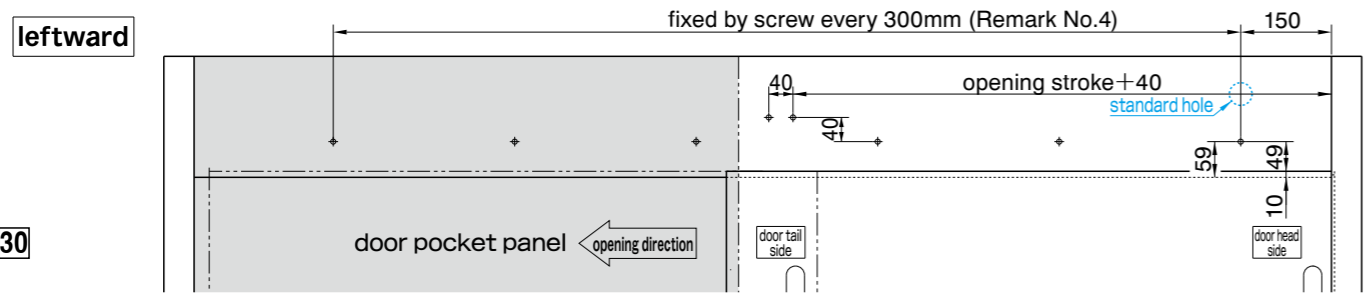
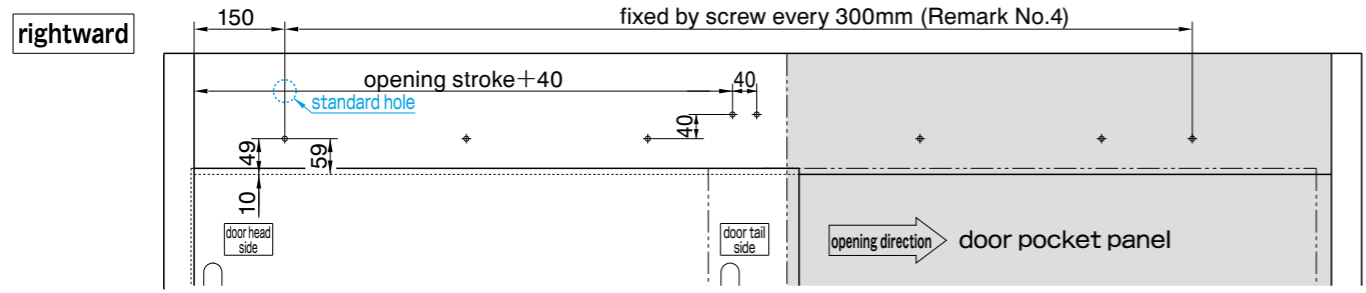
## Remark

- This is used both for rightward and leftward.
- Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
- Refer to Table 1 necessary spacer quantity for hanger unit.
- Fixed by screw every 150mm and 3.5/2mm height difference per 150mm from standard position at door head side
- In case of steel frame, separately prepare screws. (M5×L14) for installing the rail.
- In case of Door width 1350mm, use the dimensions specified in <sup>※1</sup> ( ).
- ( ) dimensions are reference dimensions.

# SLS-2K30 WITH DRIVE DEVICE SINGLE OPENING FOR WOOD DOOR



Hole pattern on inside view



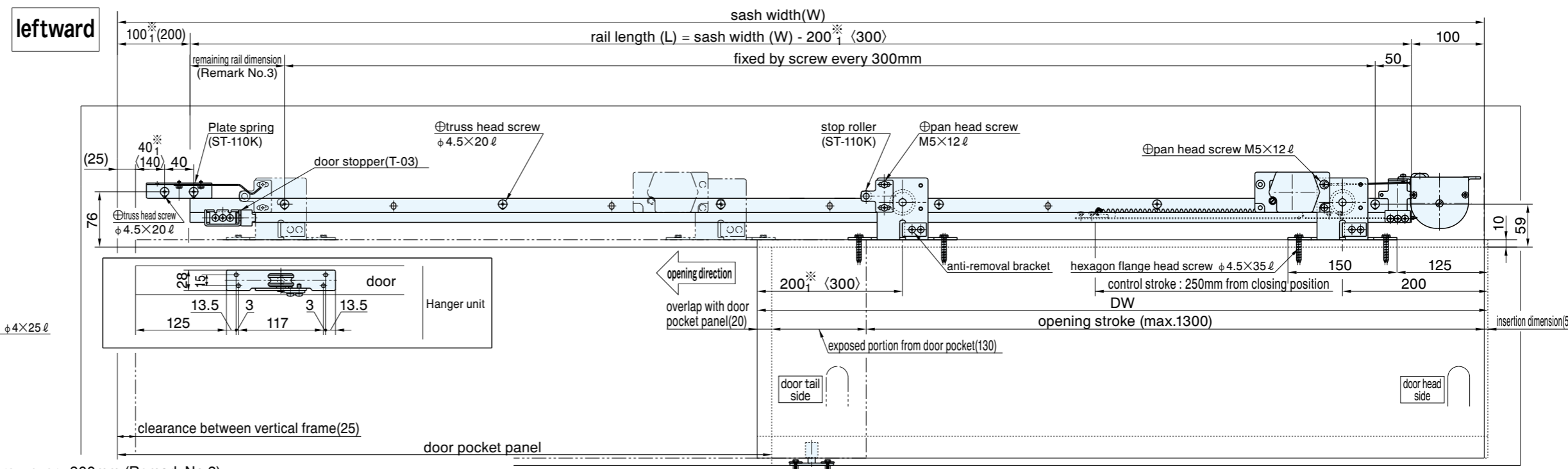
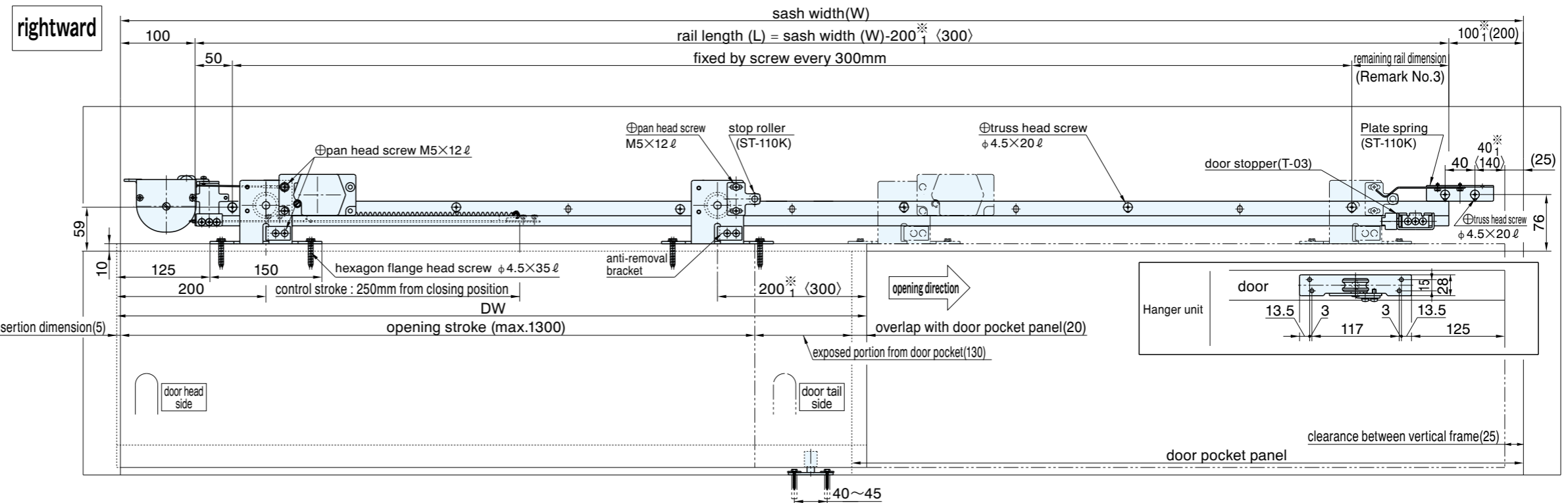
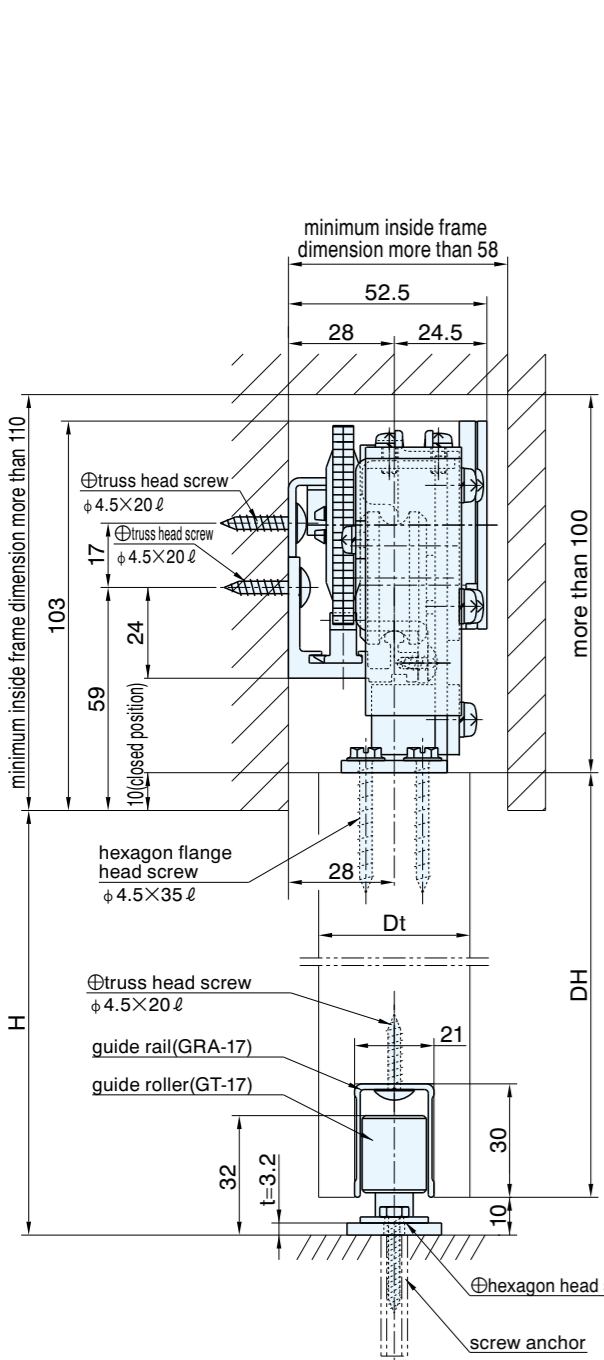
Remark

1. This is used both for rightward and leftward.
2. Hold-open device can not be combined with MHO-2.
3. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
4. Fixed by a screw every 300mm. If the remaining rail more than 155mm, fixed by a screw position 150mm away from the final position.
5. In case of Door width 1350mm, use the dimensions specified in <sup>\*\*1</sup>< >.
6. ( ) dimensions are reference dimensions.
7. In case of storing-in-wall, install a door stopper on the door or frame instead of T-02K.

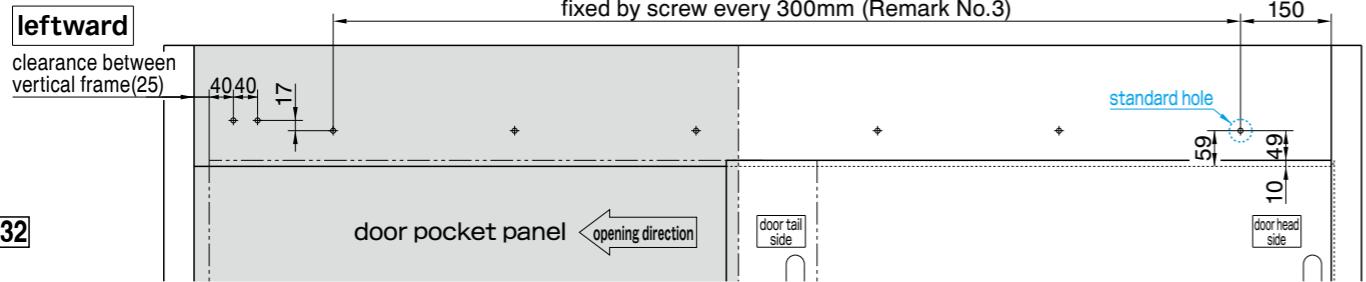
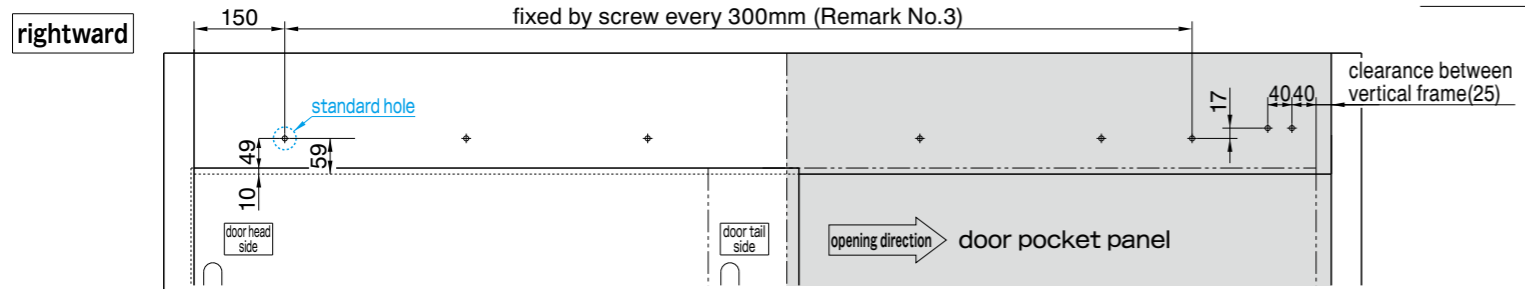
Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
With Hold-open	SLS-2K30	600 - 1450×2400	less than 30



# SLS-2K30 ST110K (OPTION) WITH DRIVE DEVICE SINGLE OPENING FOR WOOD DOOR



Hole pattern on inside view

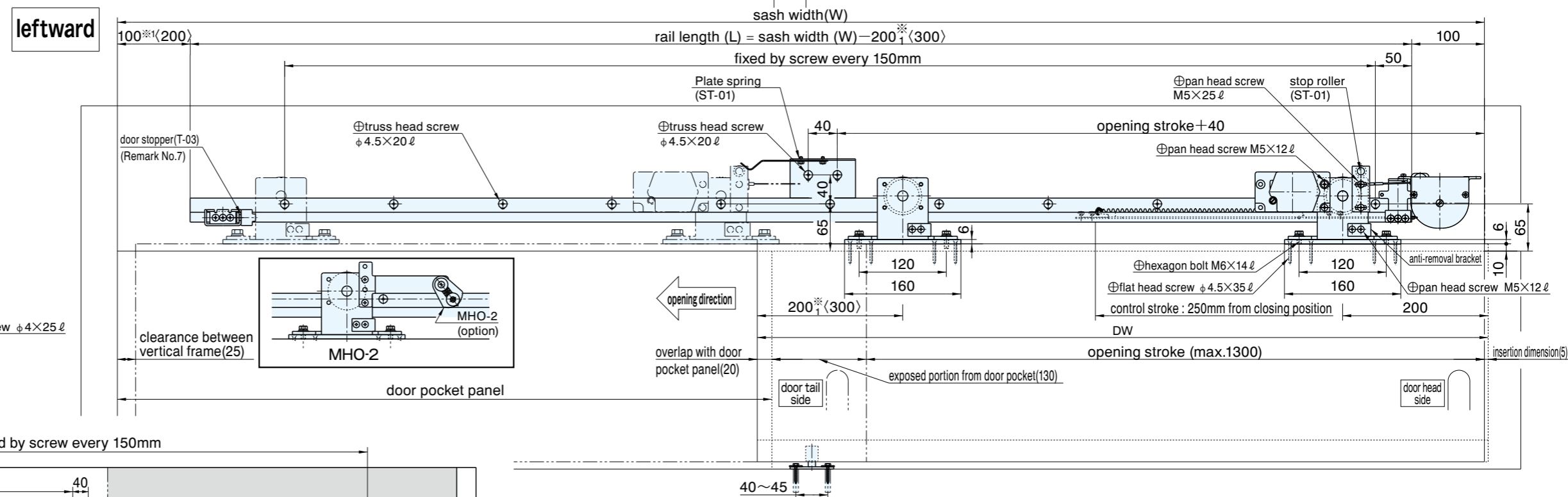
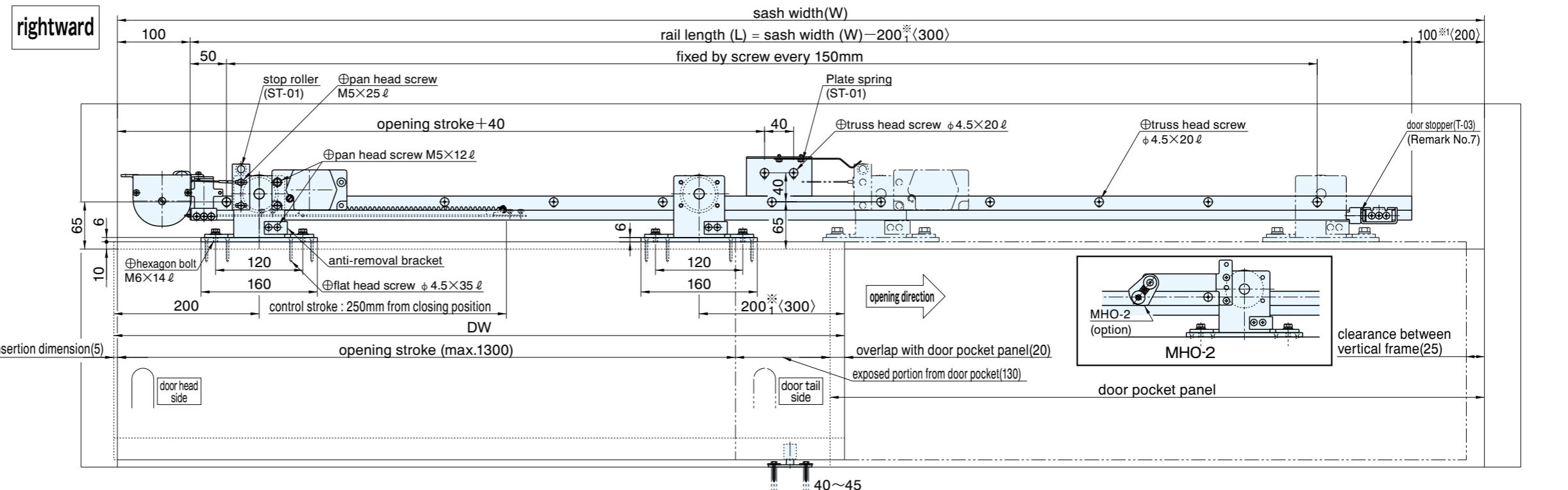
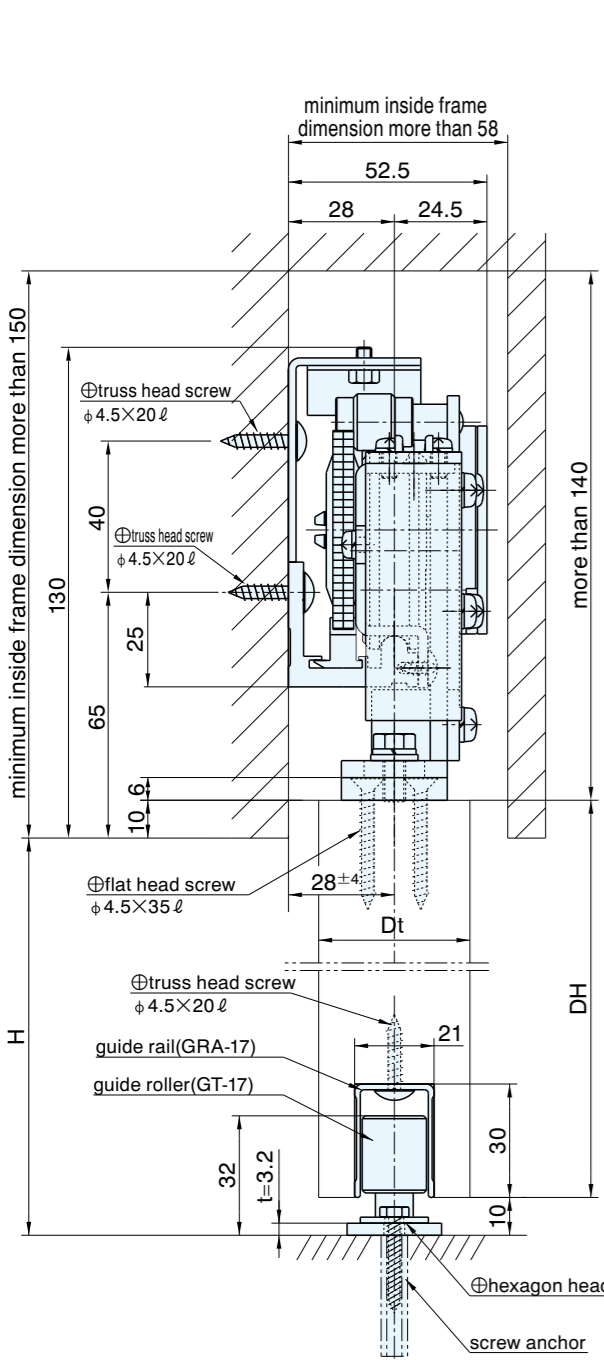


Remark

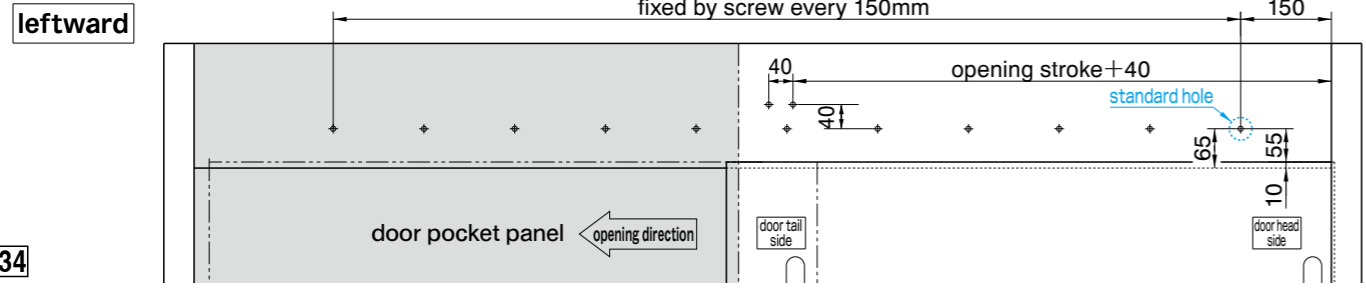
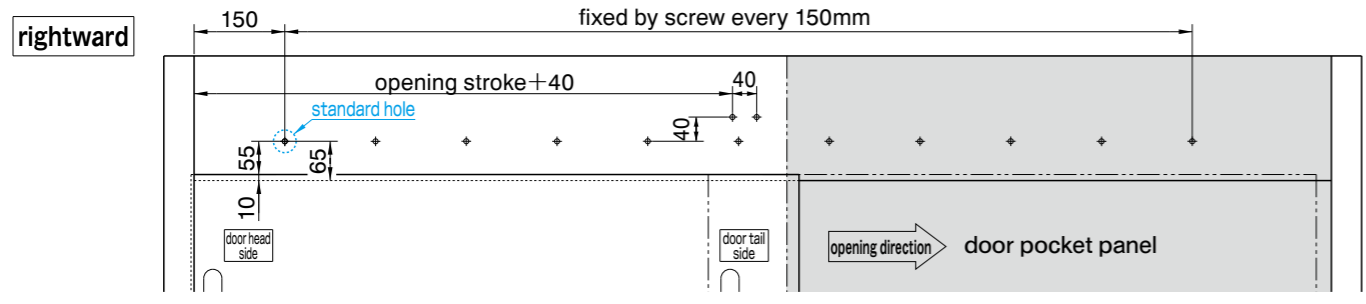
1. This is used both for rightward and leftward.
2. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
3. Fixed by a screw every 300mm. If the remaining rail more than 155mm, fixed by a screw position 150mm away from the final position.
4. In case of Door width 1350mm, use the dimensions specified in <sup>\*\*1</sup>( ).
5. ( ) dimensions are reference dimensions.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
With Hold-open	SLS-2K30	600 - 1450×2400	less than 30

# SLS-2K50 WITH DRIVE DEVICE SINGLE OPENING FOR WOOD DOOR



Hole pattern on inside view



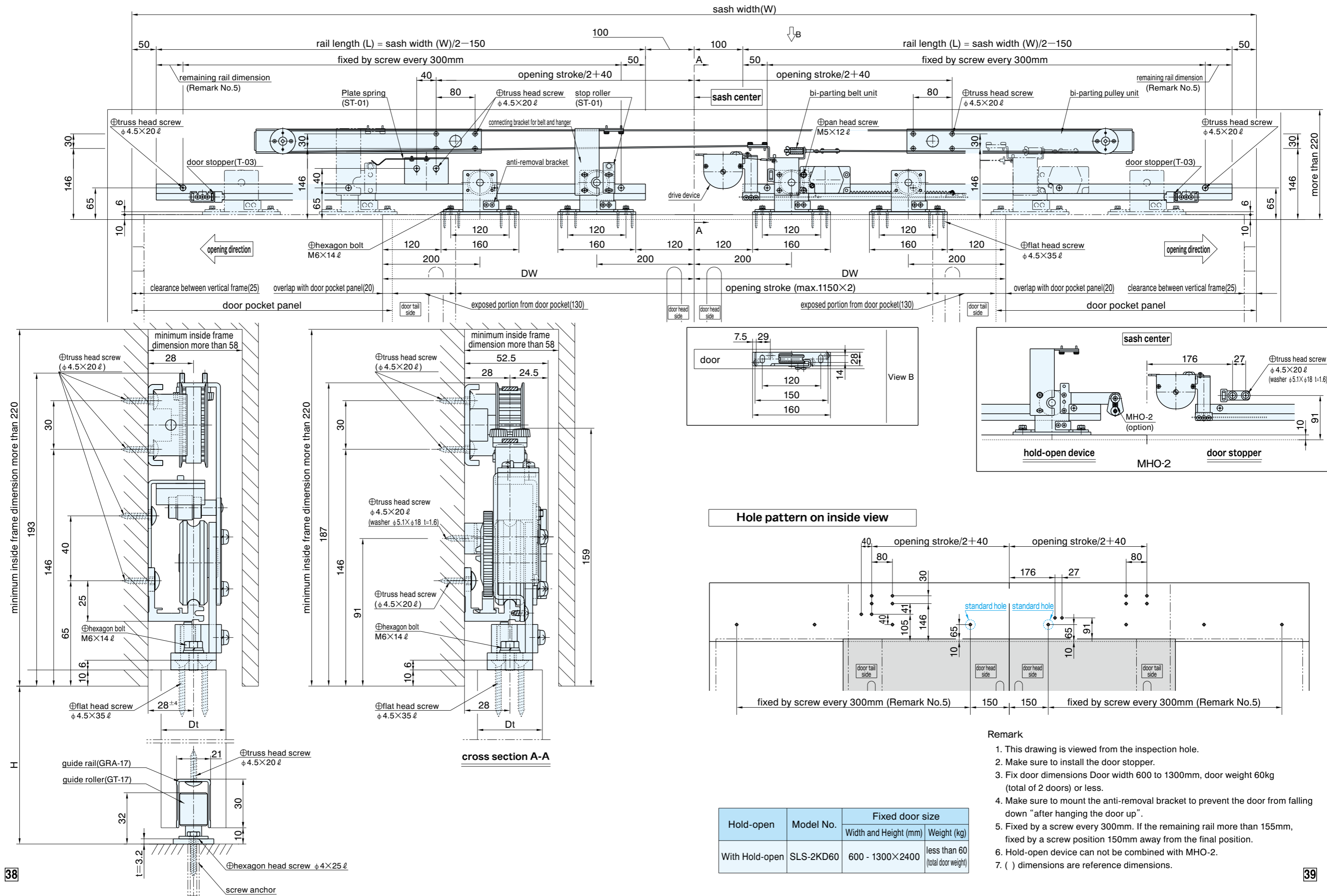
Remark

1. This is used both for rightward and leftward.
2. Hold-open device can not be combined with MHO-2.
3. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
4. In case of steel frame, separately prepare screws. (M5×L14) for installing the rail.
5. In case of Door width 1350mm, use the dimensions specified in <sup>※1</sup> ( ).
6. ( ) dimensions are reference dimensions.
7. In case of storing-in-wall, install a door stopper on the door or frame instead of T-03.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
With Hold-open	SLS-2K50	600 - 1450×2400	less than 50

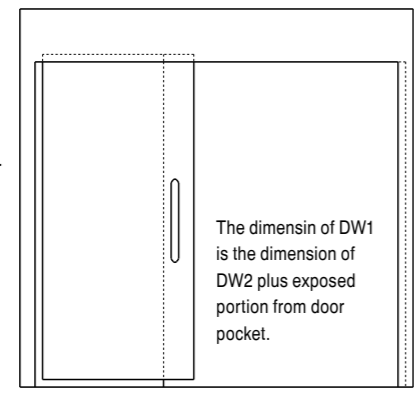
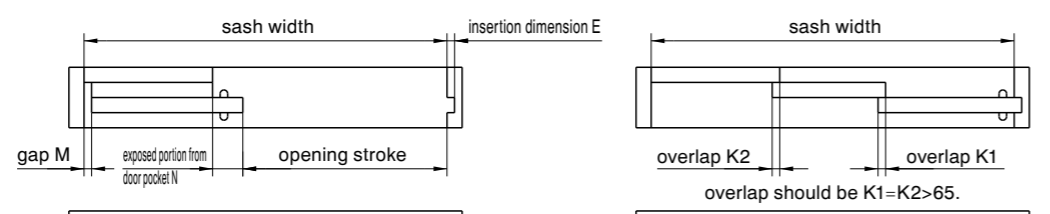
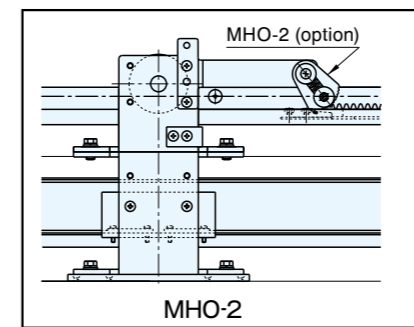
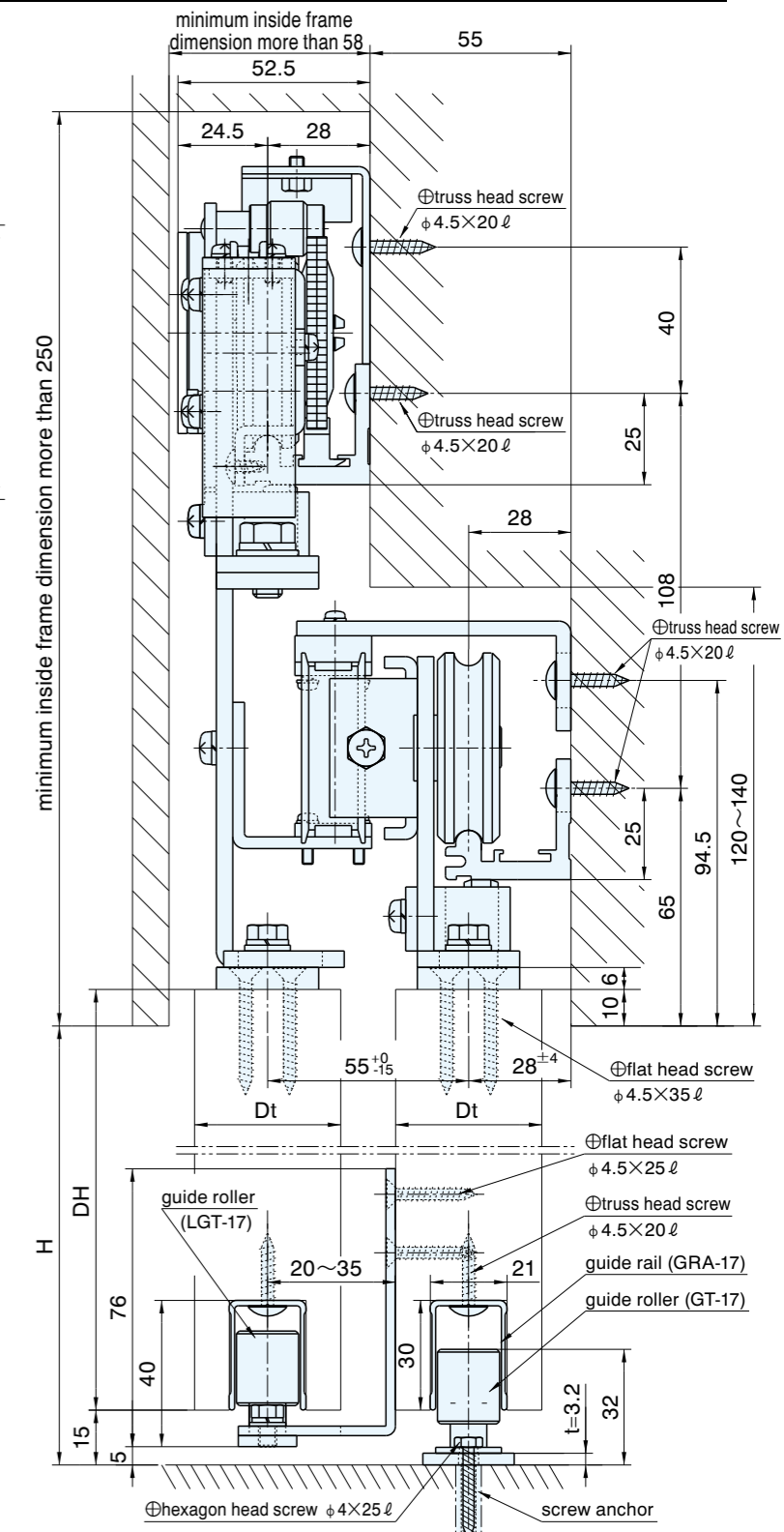
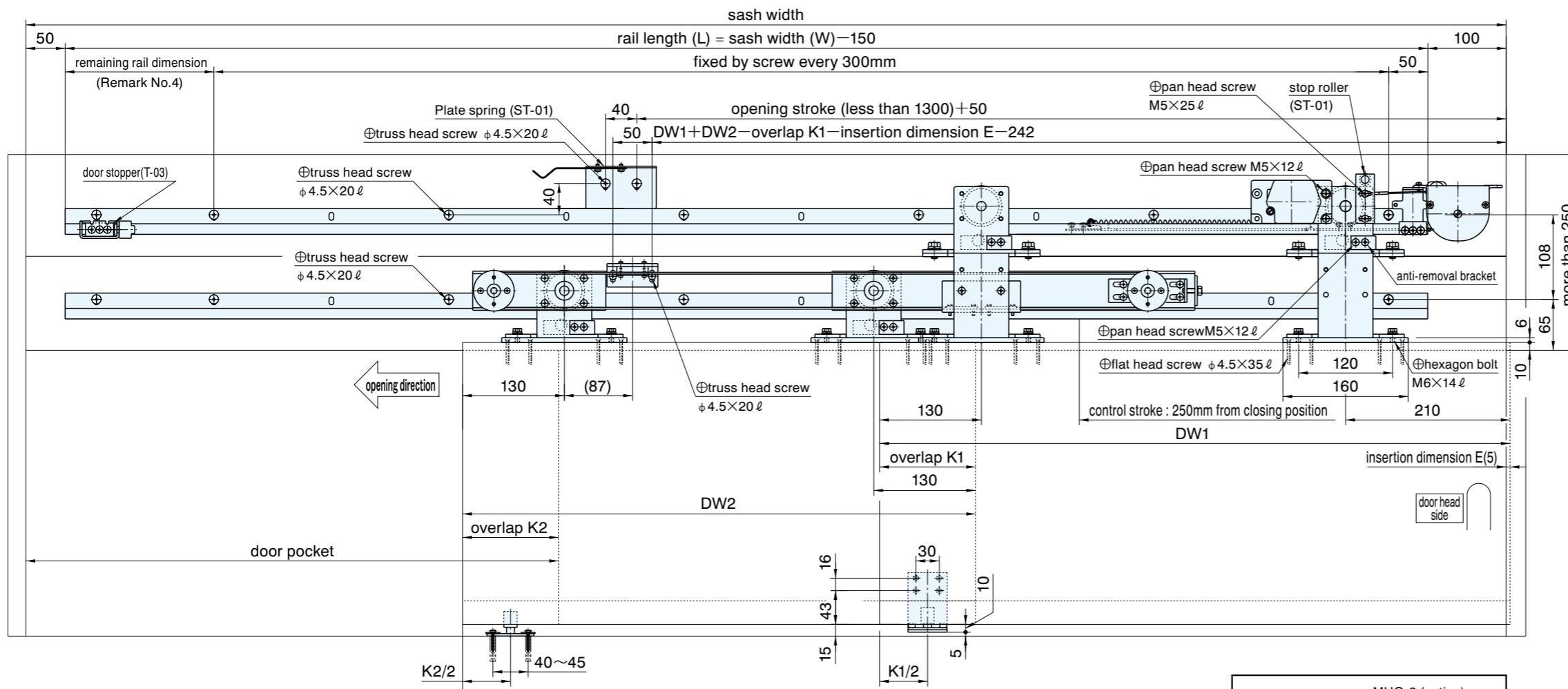


# SLS-2KD60 WITH DRIVE DEVICE BI-PARTING FOR WOOD DOOR





# SLS-2KW60-L WITH DRIVE DEVICE TELESCOPIA (LEFTWARD) FOR WOOD DOOR



**Fixed dimension**

- sash width (W)
- exposed portion from door pocket (N)
- overlap (K1) and (K2)
- insertion dimension (E)
- Clearance between vertical frame and door tail side at fully opening door position (M)

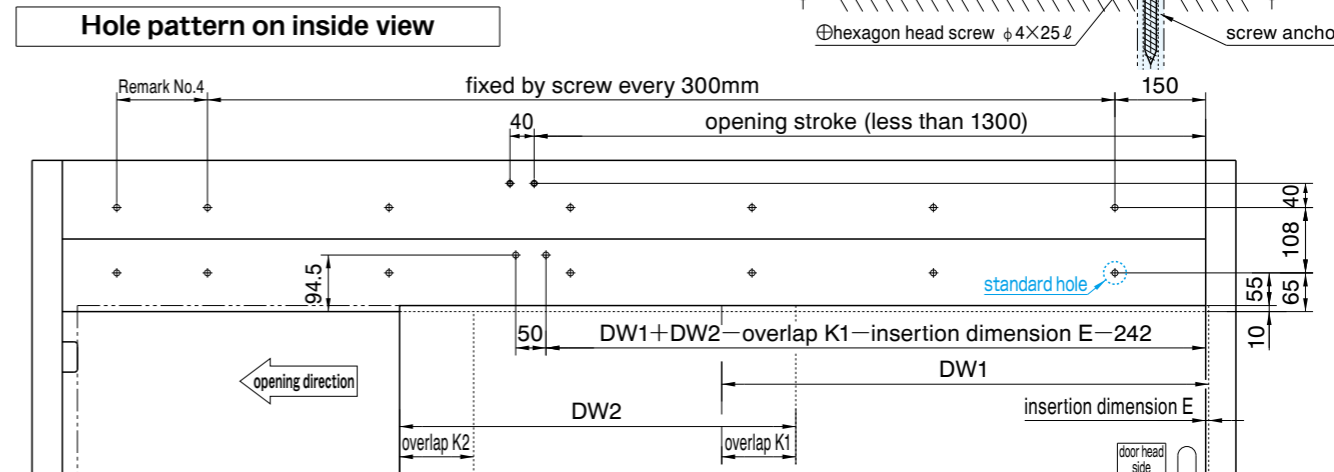
$$DW1 = (E + W + 2 \times N + K1 + K2 - M) / 3$$

$$DW2 = (E + W - N + K1 + K2 - M) / 3$$

$$W_s = ((W - N - M) \times 2 - (K1 + K2 + E)) / 3$$

- Remark**
1. This is used both for rightward and leftward.
  2. Hold-open device can not be combined with MHO-2.
  3. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
  4. Fixed by a screw every 300mm. If the remaining rail more than 155mm, fixed by a screw position 150mm away from the final position.
  5. In case of steel frame, separately prepare screws. (M5xL14) for installing the rail.
  6. ( ) dimensions are reference dimensions.
  7. Do not use for double side door pocket specifications and storing-in-wall specifications. Your hand may be caught between the door pocket and door.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
With Hold-open	SLS-2KW60-L	DW1 550 - 905x2400	less than 60 (total door weight)

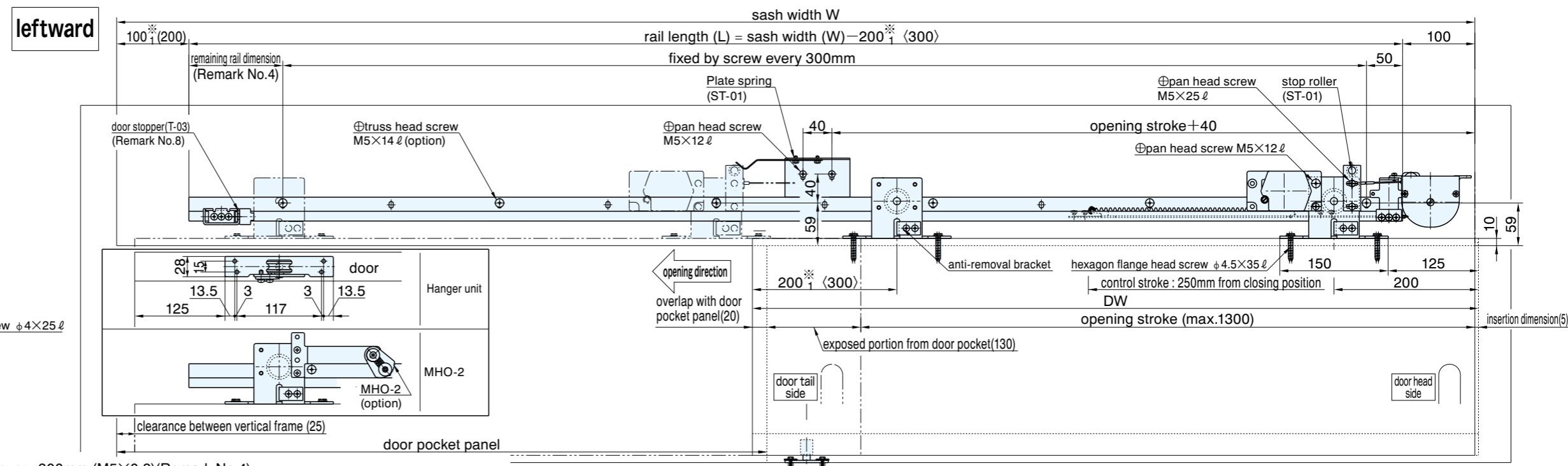
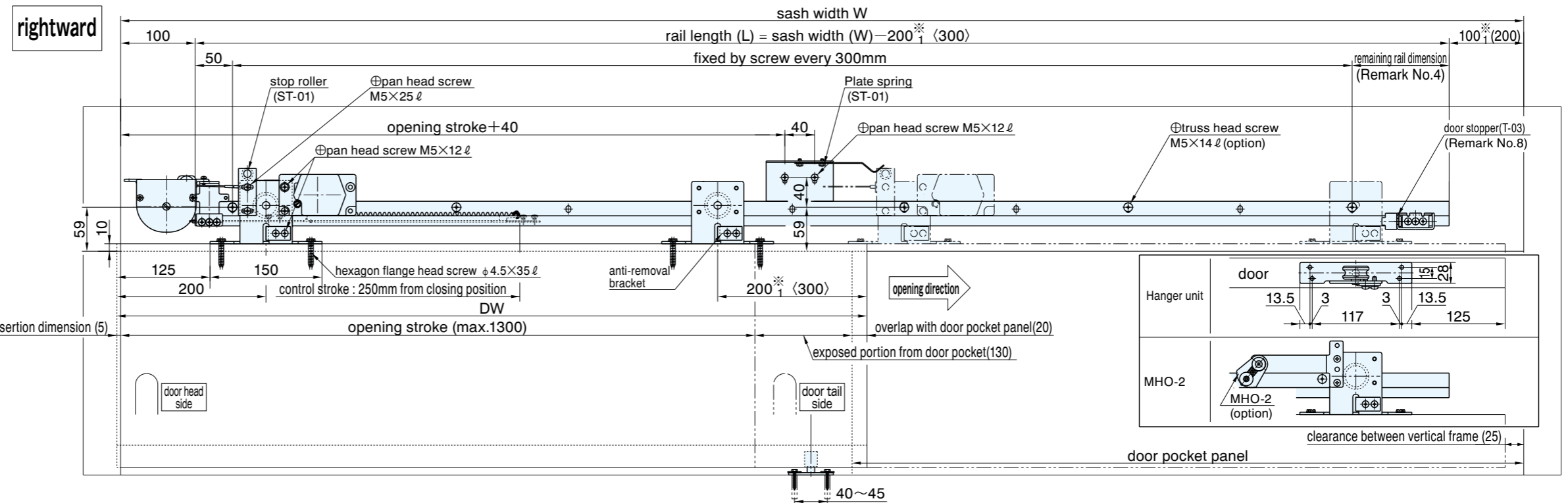
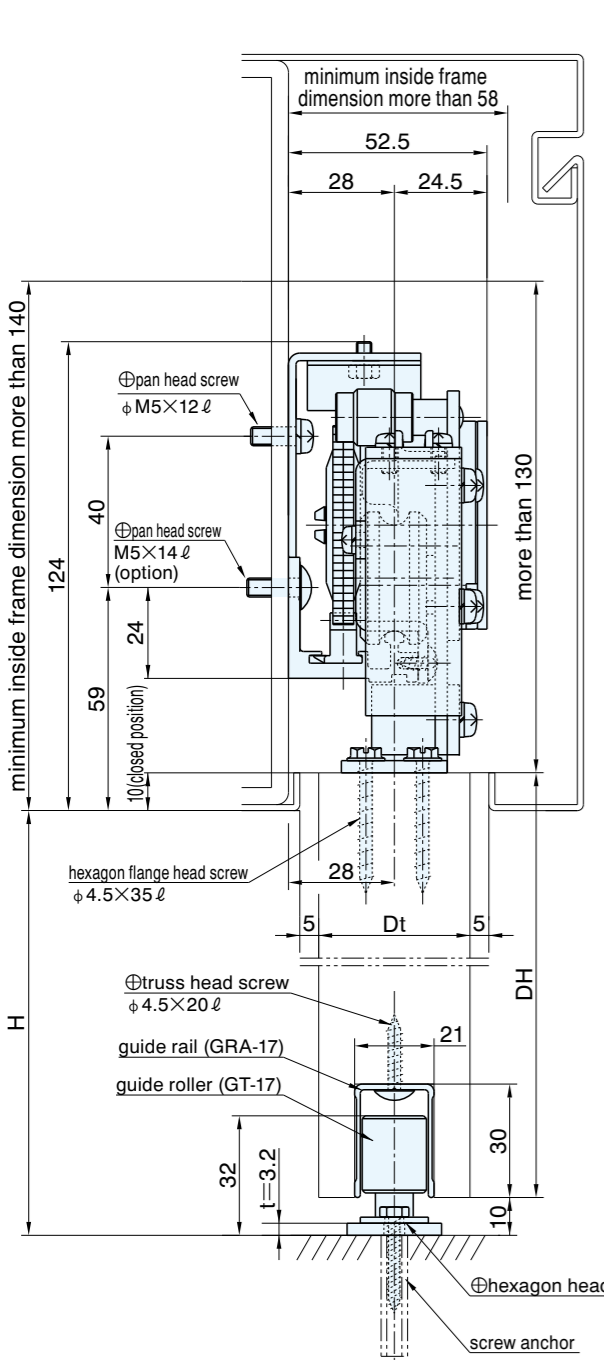




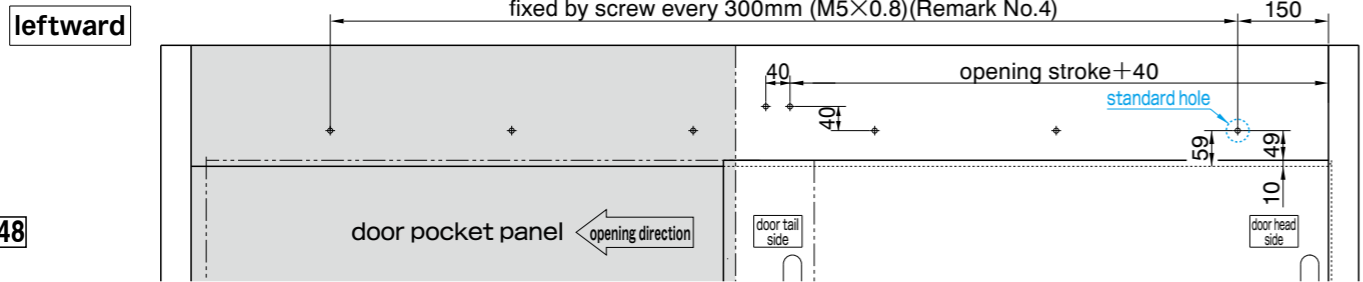
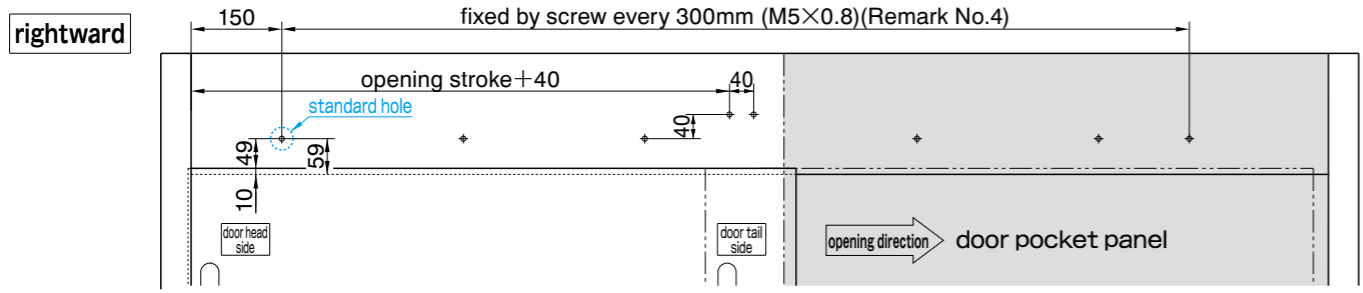




# SLS-2K30 WITH DRIVE DEVICE SINGLE OPENING FOR STEEL FRAME



Hole pattern on inside view



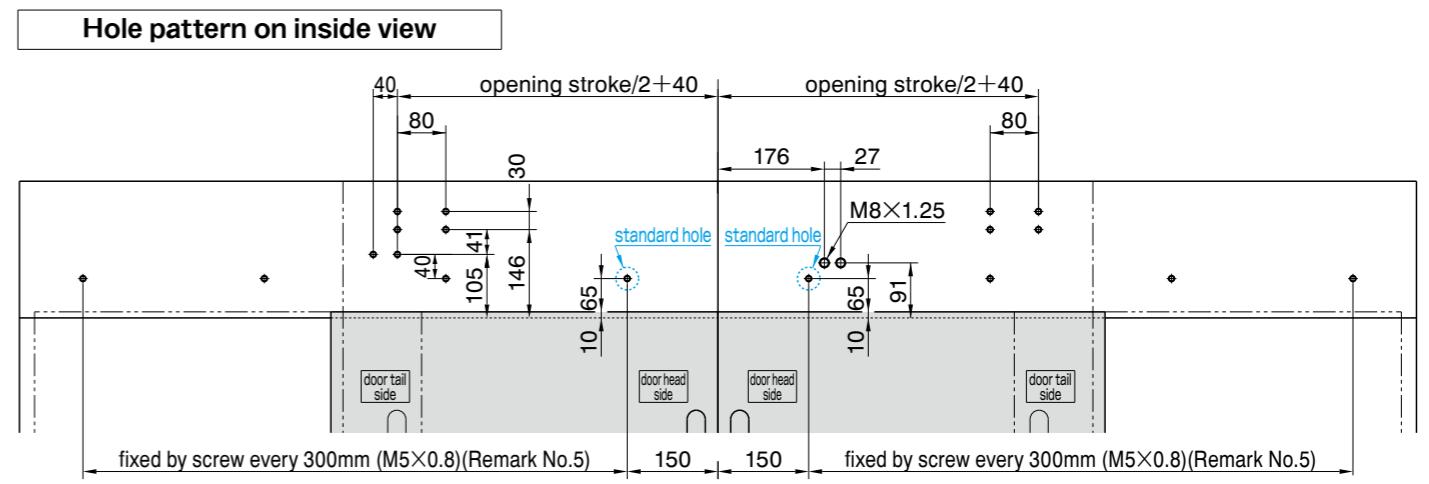
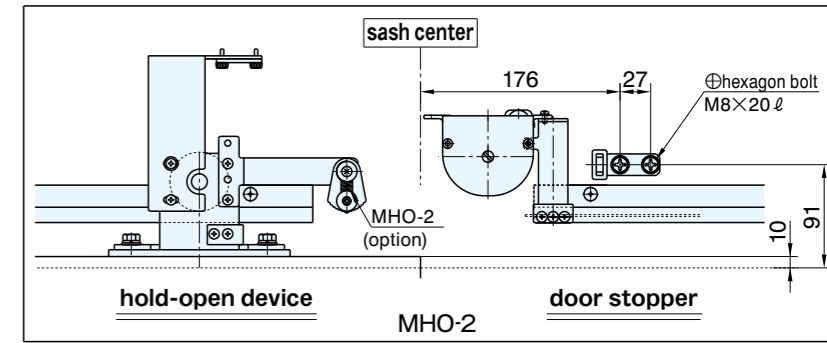
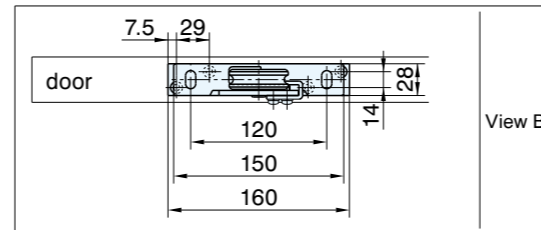
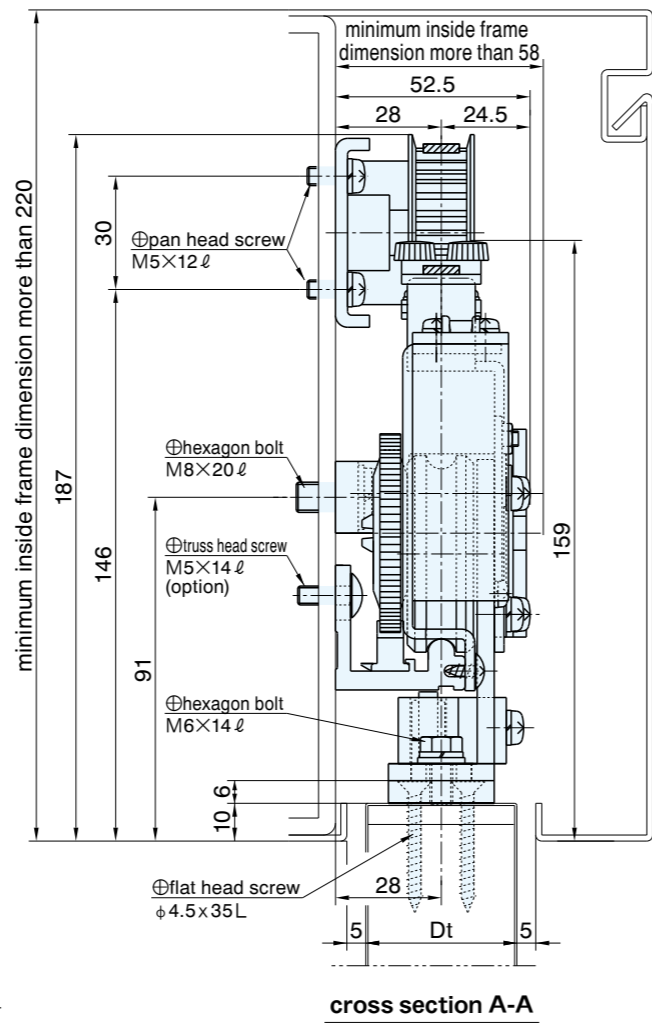
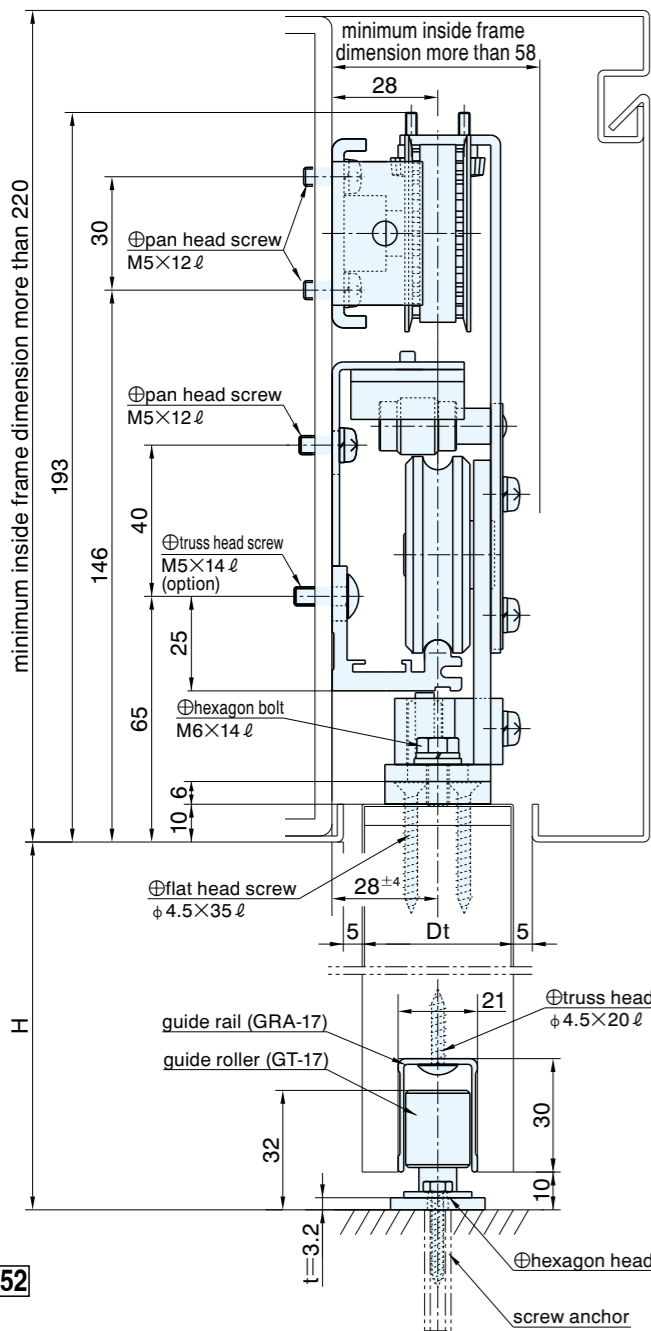
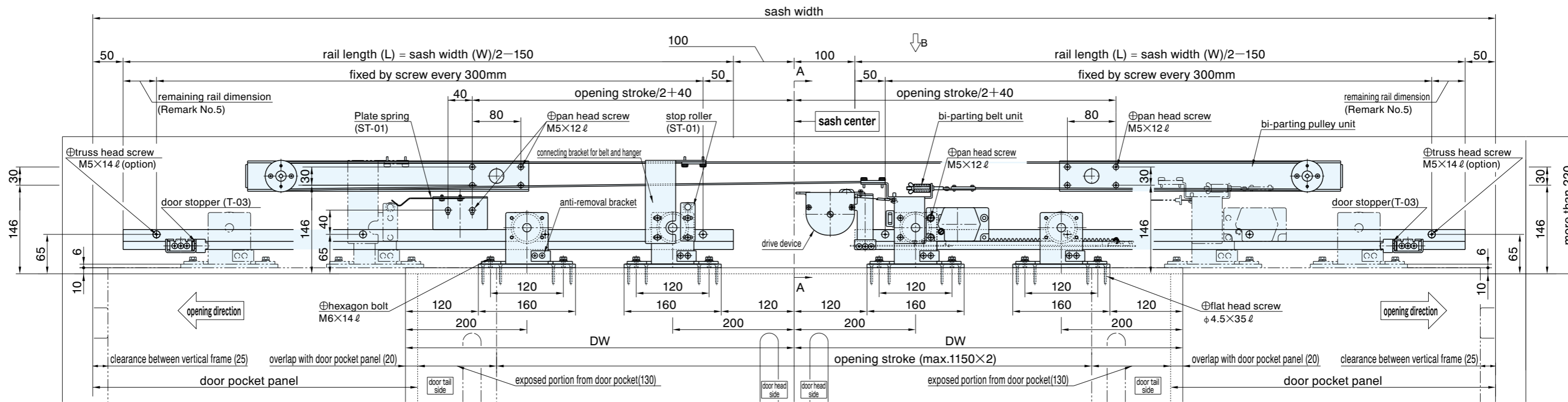
Remark

- This is used both for rightward and leftward.
- Hold-open device can not be combined with MHO-2.
- Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
- Fixed by a screw every 300mm. If the remaining rail more than 155mm, fixed by a screw position 150mm away from the final position.
- In case of steel frame, separately prepare screws. (M5×L14) for installing the rail.
- In case of Door width 1350mm, use the dimensions specified in ( ).
- ( ) dimensions are reference dimensions.
- In case of storing-in-wall, install a door stopper on the door or frame instead of T-03.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
With Hold-open	SLS-2K30	600 - 1450×2400	less than 30



# SLS-2KD60 WITH DRIVE DEVICE BI-PARTING FOR STEEL FRAME



- Remark**
1. This drawing is viewed from the inspection hole.
  2. Make sure to install the door stopper.
  3. Fix door dimensions Door width 600 to 1300mm, door weight 60kg (total of 2 doors) or less.
  4. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
  5. Fixed by a screw every 300mm. If the remaining rail more than 155mm, fixed by a screw position 150mm away from the final position.
  6. In case of steel frame, separately prepare screws. (M5×L14) for installing the rail.
  7. Hold-open device can not be combined with MHO-2.
  8. ( ) dimensions are reference dimensions.

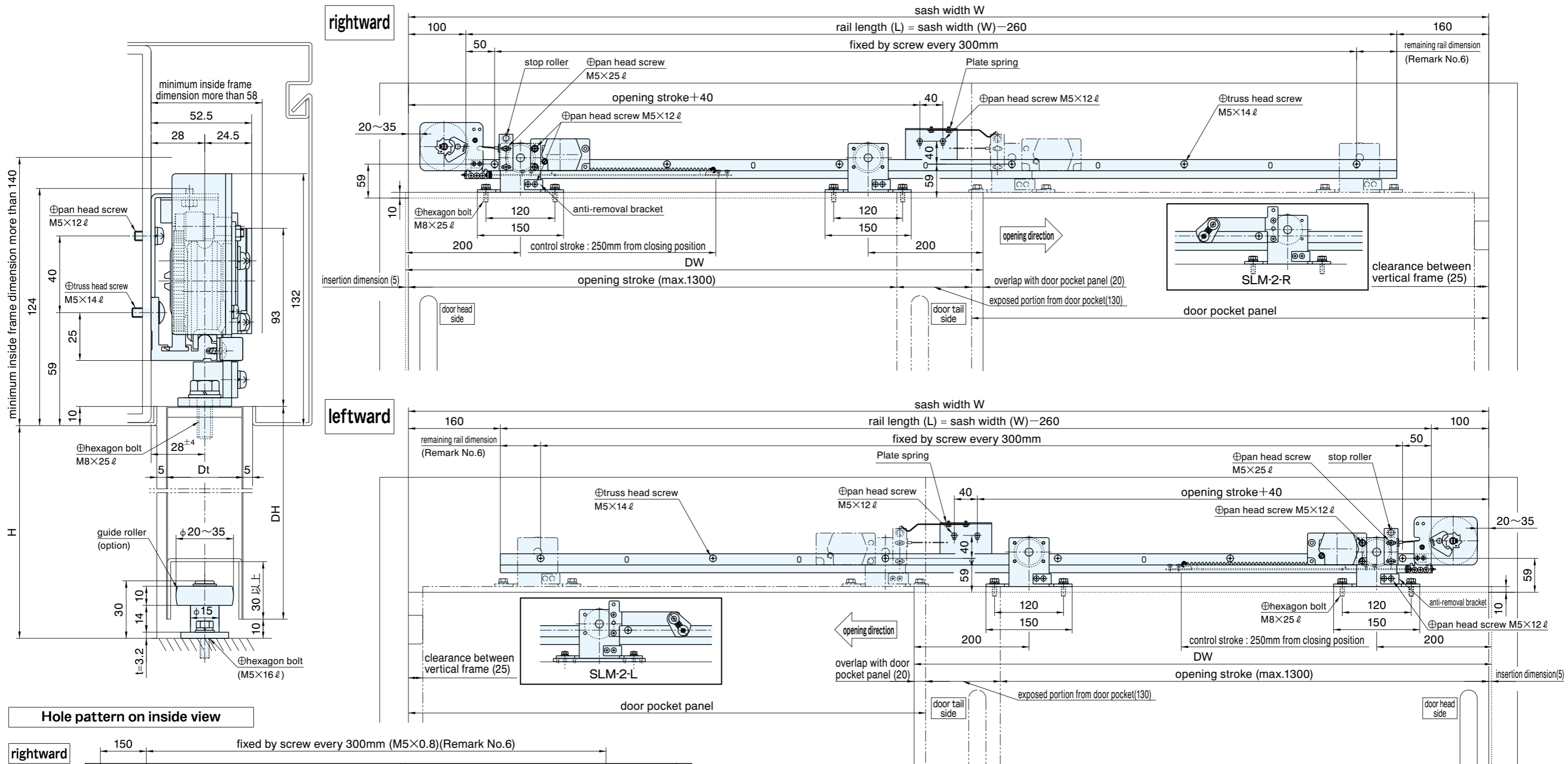
Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
With Hold-open	SLS-2KD60	600 - 1300×2400	less than 60 (total door weight)



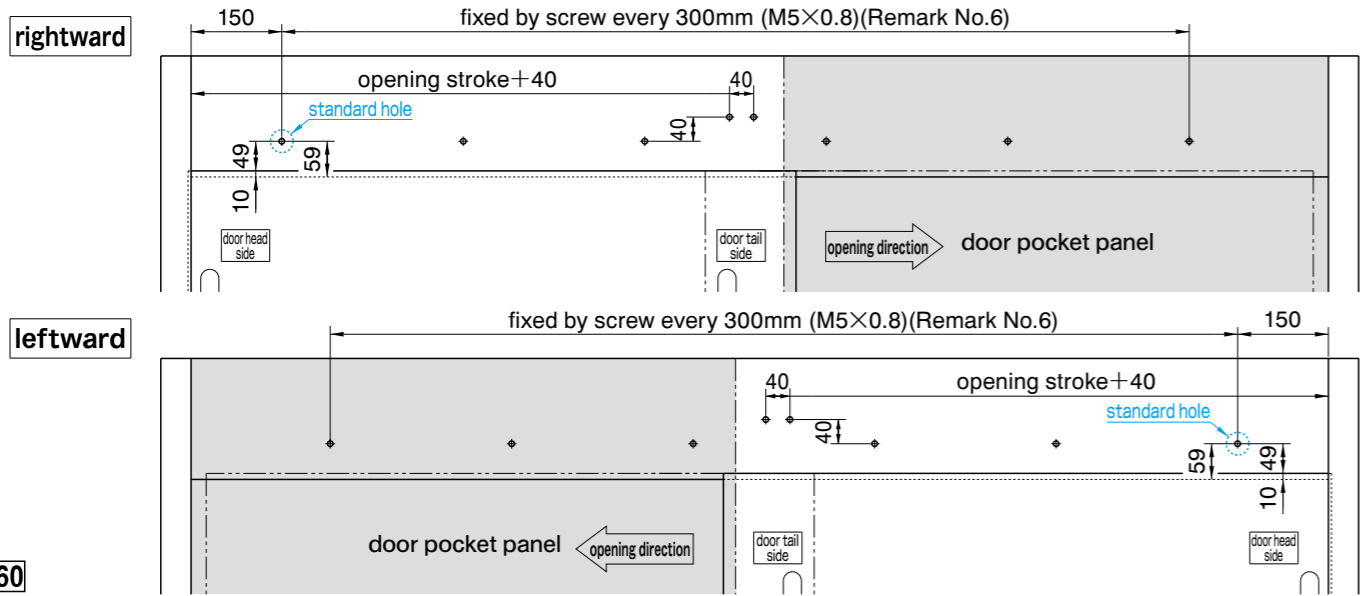




# SL-2 WITH DRIVE DEVICE SINGLE OPENING FOR STEEL DOOR



**Hole pattern on inside view**



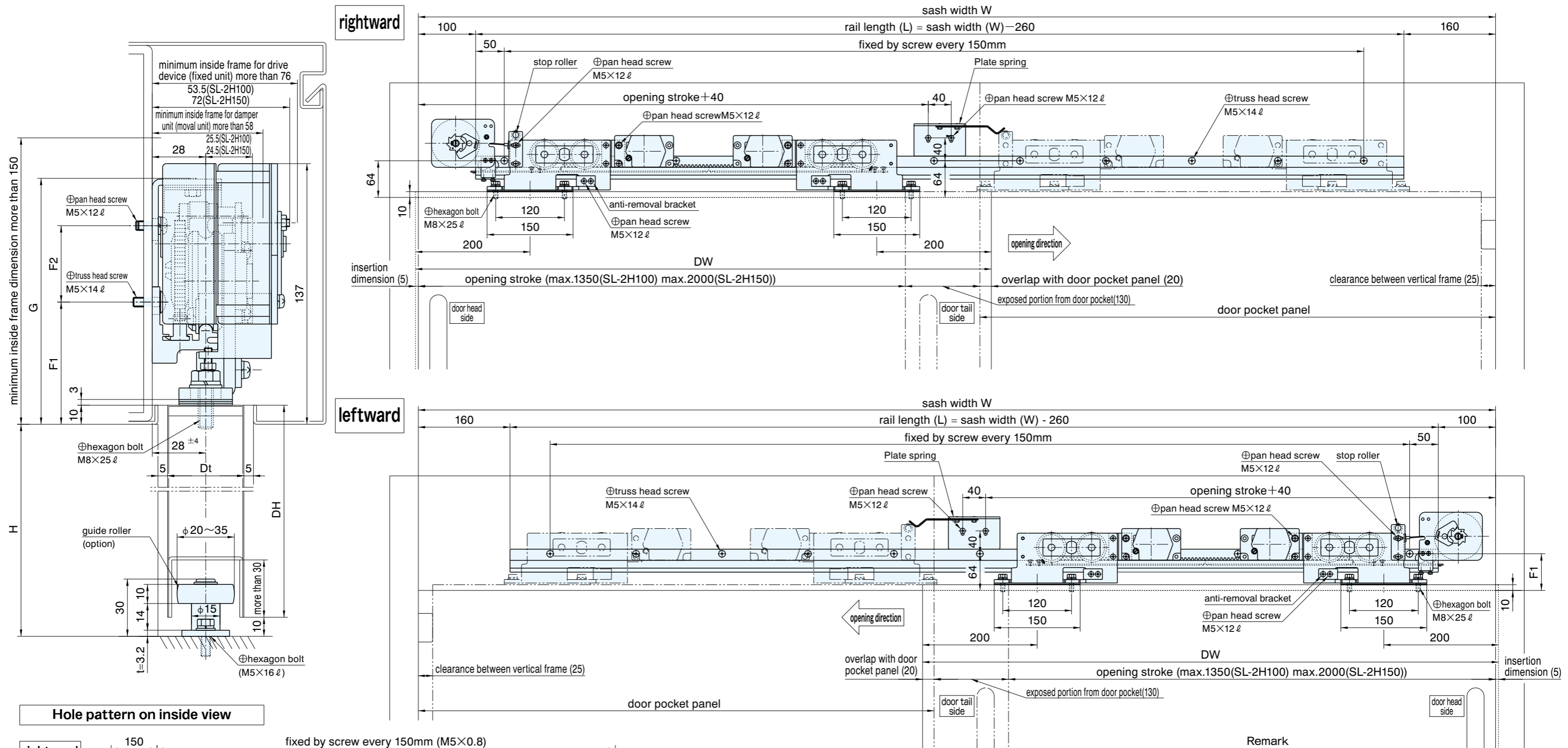
**Remark**

1. This is used both for rightward and leftward.
2. This drawing is SLS-2 (w/h Hold-open device)
3. Hold-open device is not included with SL-2 (w/o Hold-open device)
4. SLM-2 includes MHO-2 instead of Hold-open device.
5. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
6. Fixed by a screw every 300mm. If the remaining rail more than 155mm, fixed by a screw position 150mm away from the final position.
7. ( ) dimensions are reference dimensions.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2	600 - 1450 ×2400	less than 80
With Hold-open	SLS-2		
With Multi Hold-open	SLM-2		

# SL-2H100/150 WITH DRIVE DEVICE SINGLE OPENING FOR STEEL DOOR

\*Note: Installation drawing and illustration are for SLS-2H150.



**Remark**

1. This is used both for rightward and leftward.
2. This drawing is for SLS-2H150 (w/h Hold-open devise)
3. Hold-open device is not included with SL-2H100/SL-2H150 (w/o Hold-open device)
4. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
5. Fix the rail by screw every 150mm.
6. Quantity of rack B is according to door size (door width).

MODEL	TYPE	C	D	F1	F2	G4
SL-2H100	With backcheck rack	Opening Stroke + 10	100	64	26	134
SLS-2H100					40	129
SL-2H100	With plate spring	Opening Stroke + 35	40	64	40	129
SLS-2H150					40	129

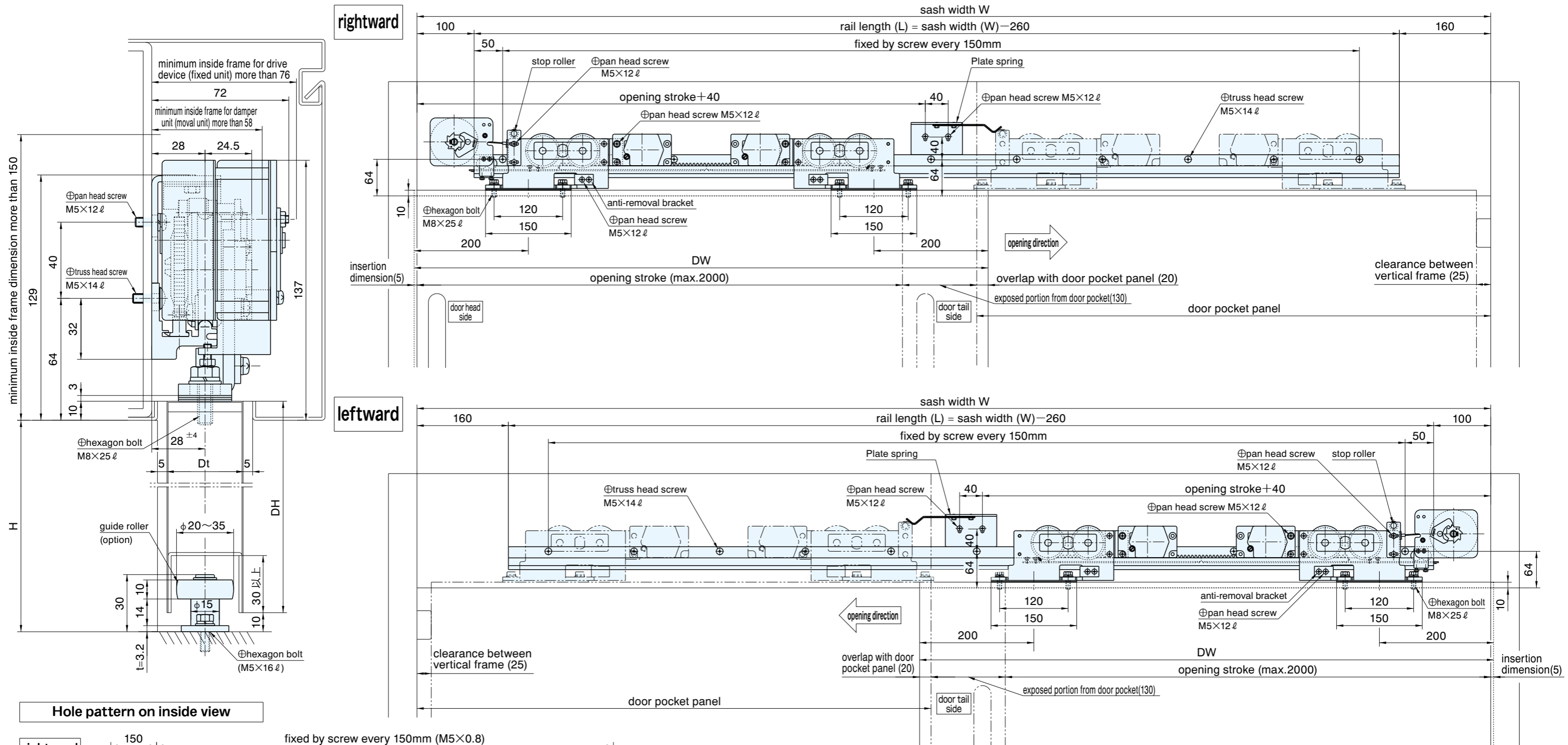
Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2H150	900 - 2150	less than 150
With Hold-open	SLS-2H150	×2400	150

Door size DW (mm)	Rack B
900 - 1100	4pcs.
1101 - 1300	5pcs.
1301 - 1500	6pcs.
1501 - 1800	7pcs.
1801 - 2150	8pcs.

7. ( ) dimensions are reference dimensions.



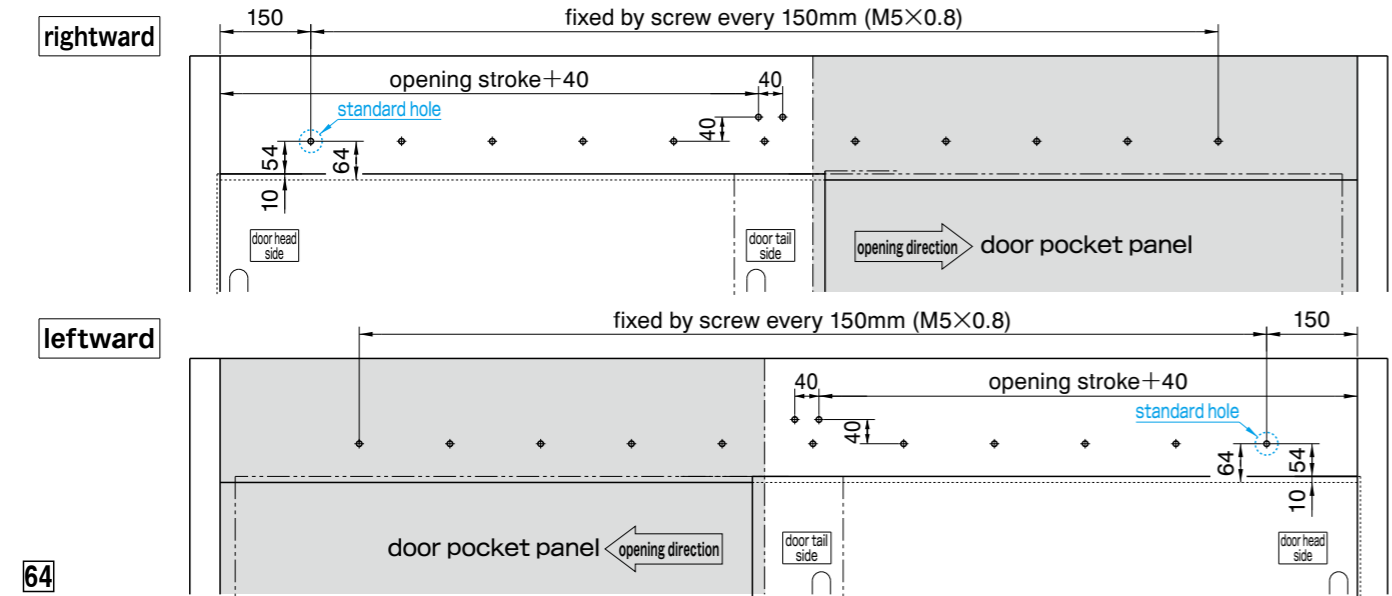
# SL-2H200 WITH DRIVE DEVICE SINGLE OPENING FOR STEEL DOOR



minimum inside frame dimension more than 150

H

**Hole pattern on inside view**



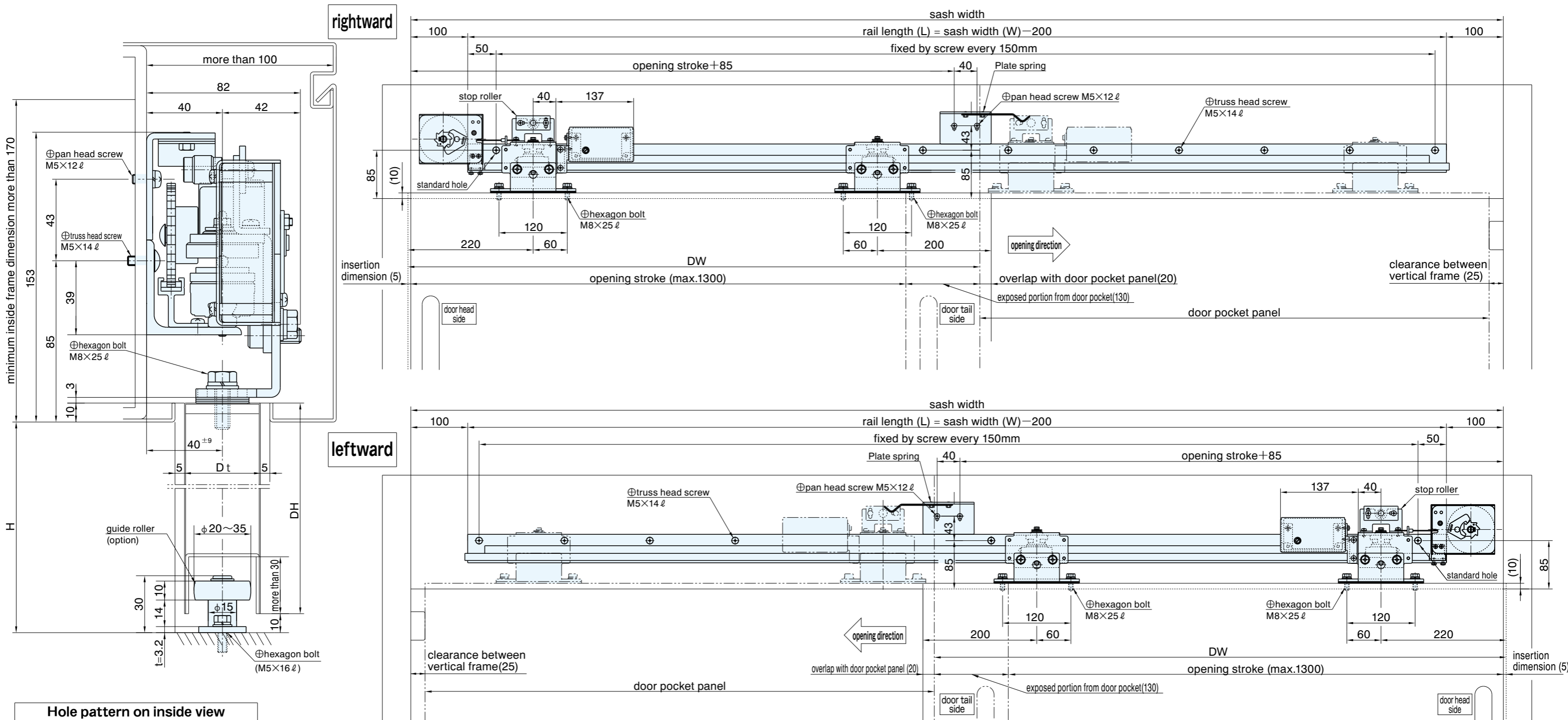
- Remark**
1. This is used both for rightward and leftward.
  2. This drawing is SLS-2H200 (w/h Hold-open devise)
  3. Hold-open device is not included with SL-2H200 (w/o Hold-open device)
  4. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
  5. Fix the rail by screw every 150mm.
  6. Quantity of rack B is according to door size (door width).

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2H250	1300 - 2150	less than 200
With Hold-open	SLS-2H250	×2400	

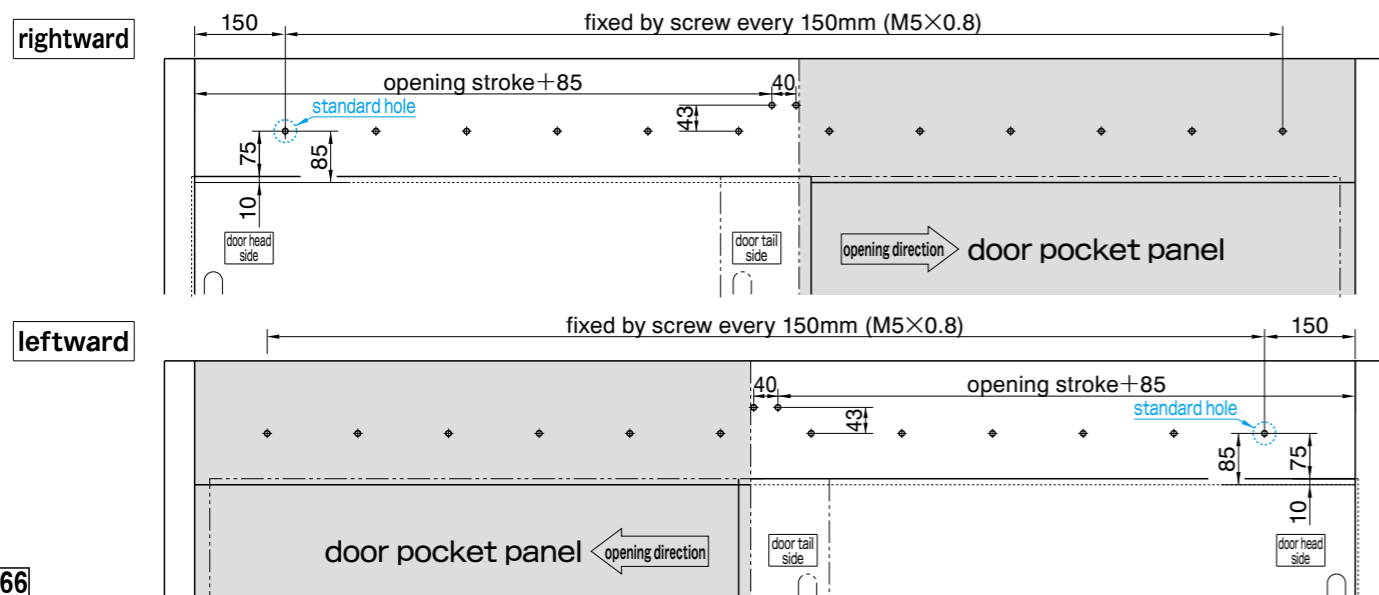
Door size DW (mm)	Rack B
1300 - 1500	6pcs.
1501 - 1800	7pcs.
1801 - 2150	8pcs.

7. ( ) dimensions are reference dimensions.

# SL-2HG120 WITH DRIVE DEVICE SINGLE OPENING FOR STEEL DOOR



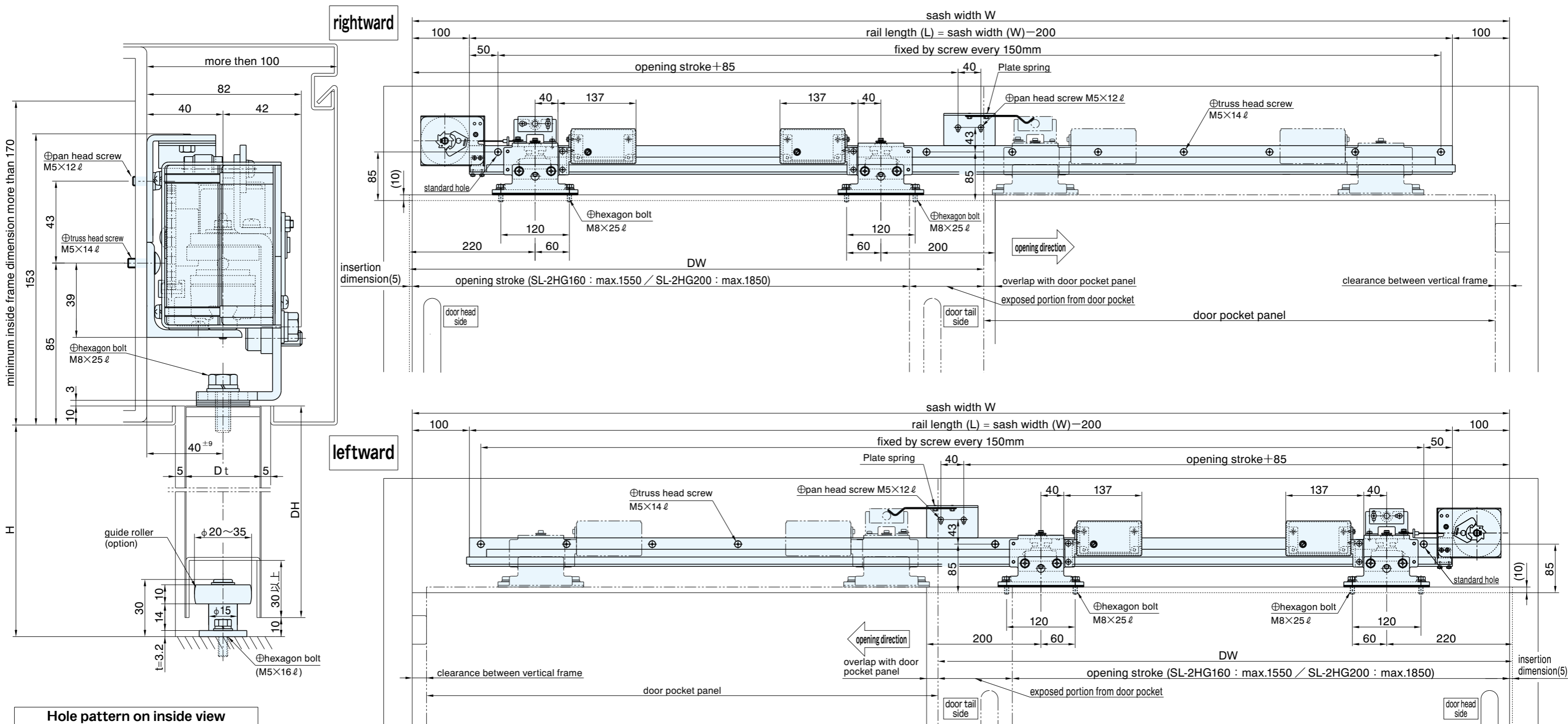
Hole pattern on inside view



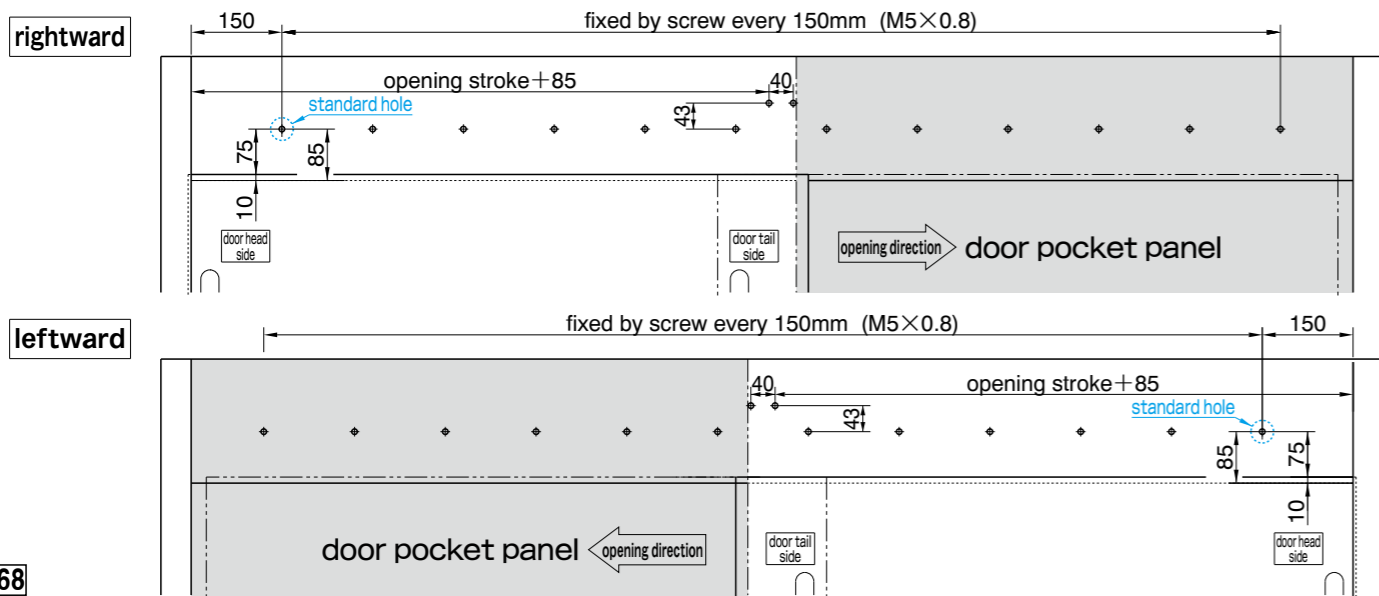
Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2HG120	900 - 1450	less than 120
With Hold-open	SLS-2HG120	×2400	

- Remark
1. This model has right hand and left hand.
  2. This drawing is SLS-2HG120 (w/h Hold-open devise)
  3. Hold-open device is not included with SL-2HG120 (w/o Hold-open device)
  4. Fix the rail by screw every 150mm.
  5. ( ) dimensions are reference dimensions.

# SL-2HG160/200 WITH DRIVE DEVICE SINGLE OPENING FOR STEEL DOOR



Hole pattern on inside view

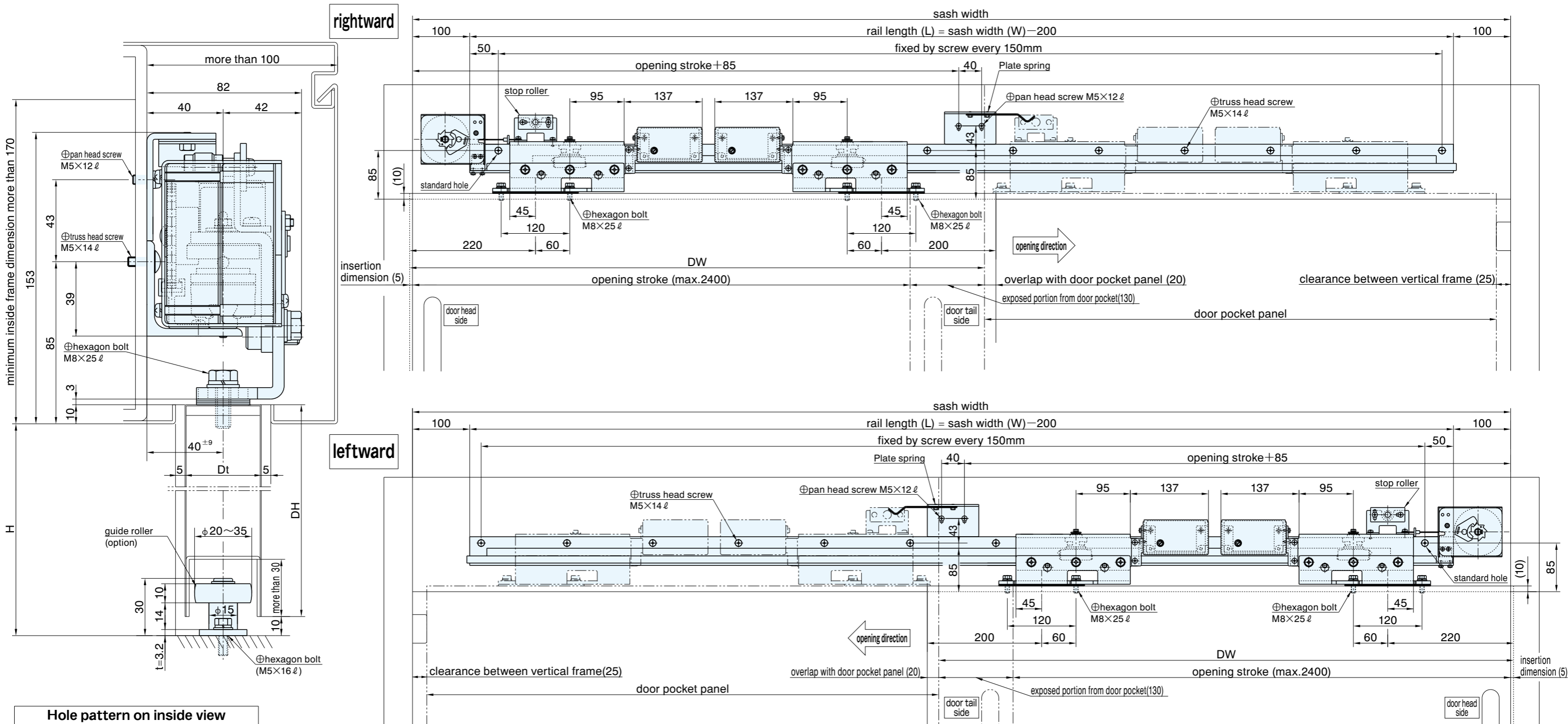


**Remark**

1. This is used both for rightward and leftward.
2. This drawing is SLS-2HG160 (w/h Hold-open devise) and SLS-2HG200 (w/h Hold-open devise)
3. Hold-open device is not included with SL-2HG160 (w/o Hold-open device) and SL-2HG200 (w/o Hold-open device)
4. Fix the rail by screw every 150mm.
5. ( ) dimensions are reference dimensions.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2HG160	900 - 1700	less than 160
With Hold-open	SLS-2HG160	×2400	160
Without Hold-open	SL-2HG200	1200 - 2000	less than 200
With Hold-open	SLS-2HG200	×2400	200

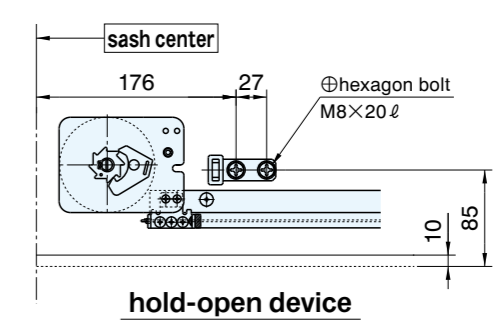
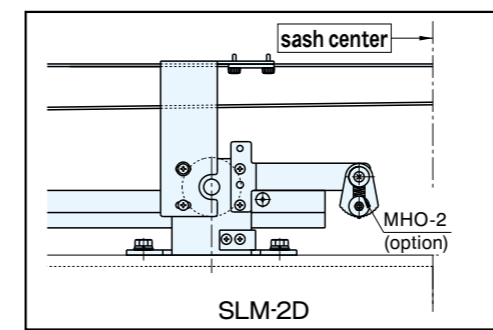
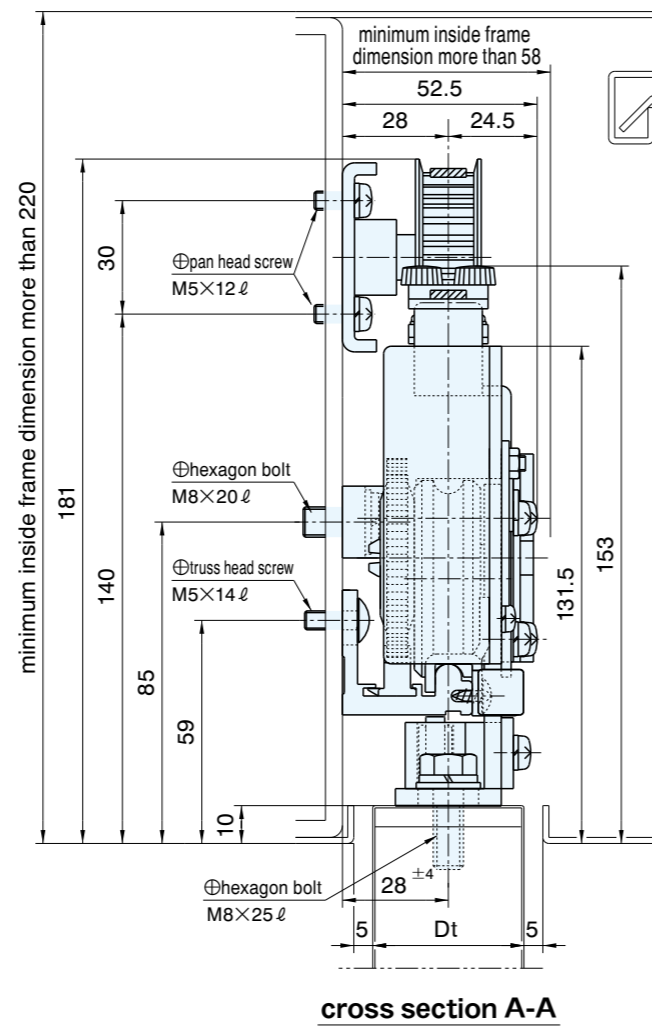
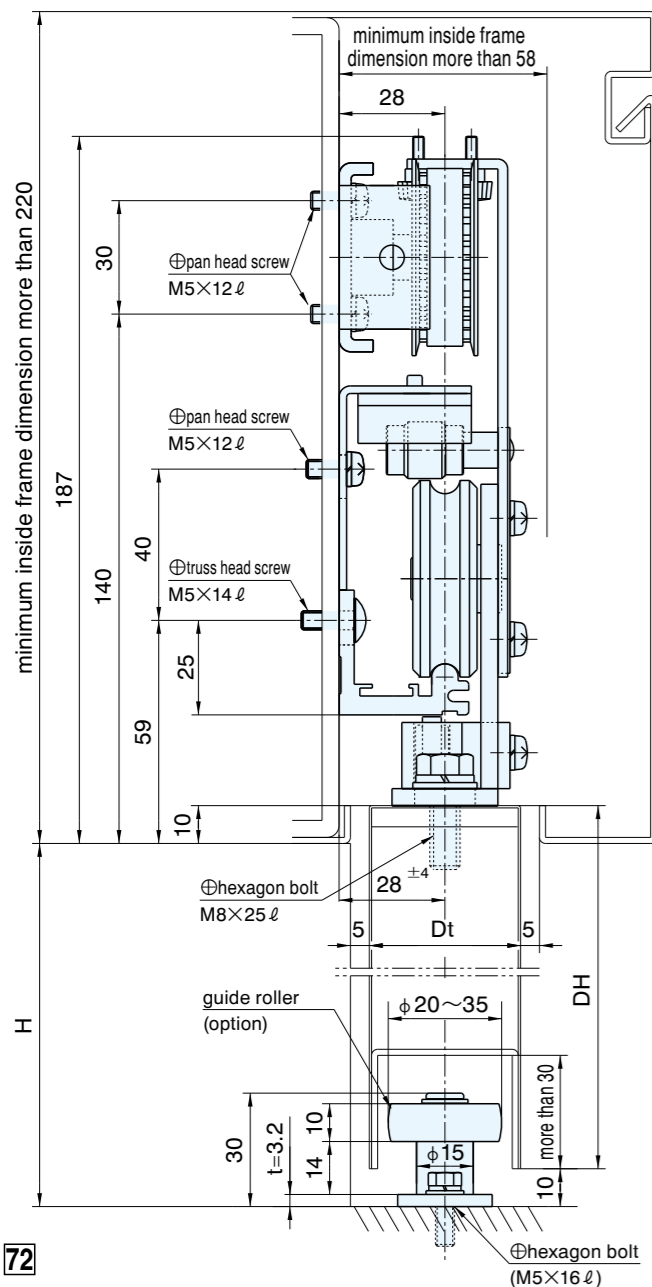
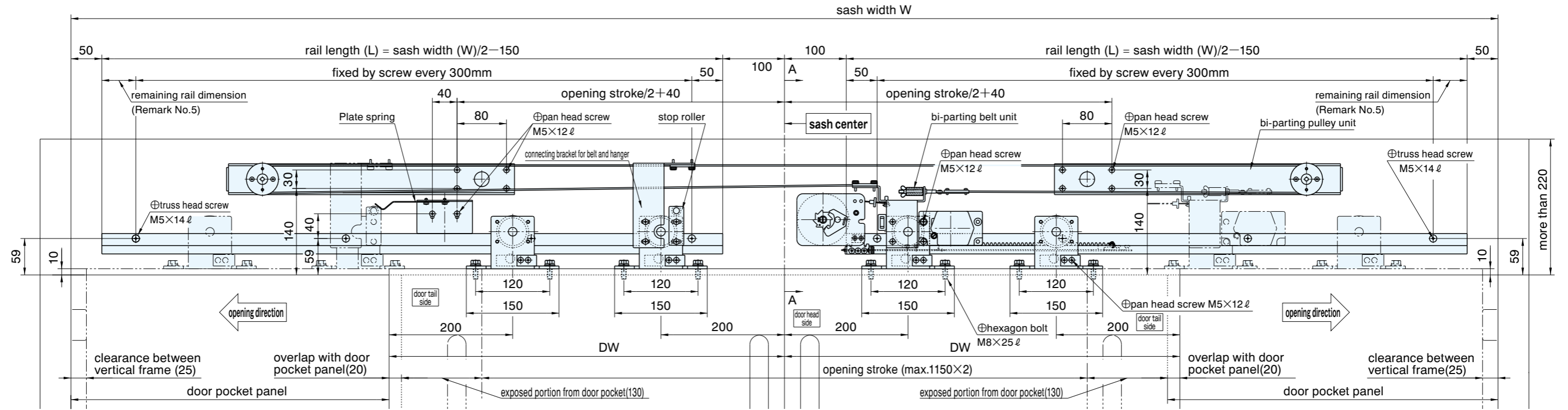
# SL-2HG250 WITH DRIVE DEVICE SINGLE OPENING FOR STEEL DOOR



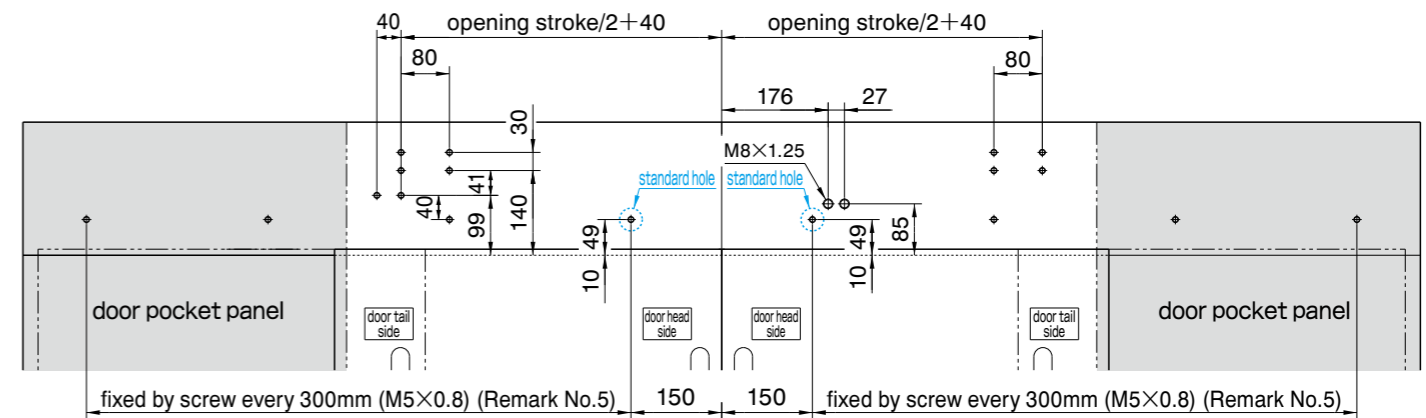
Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2HG250	1200 - 2550	less than 250
With Hold-open	SLS-2HG250	×2400	

- Remark**
1. This model has right hand and left hand.
  2. This drawing is SLS-2HG250 (w/h Hold-open devise)
  3. Hold-open device is not included with SL-2HG250 (w/o Hold-open device)
  4. Fix the rail by screw every 150mm.
  5. ( ) dimensions are reference dimensions.

# SL-2D WITH DRIVE DEVICE BI-PARTING FOR STEEL DOOR



Hole pattern on inside view

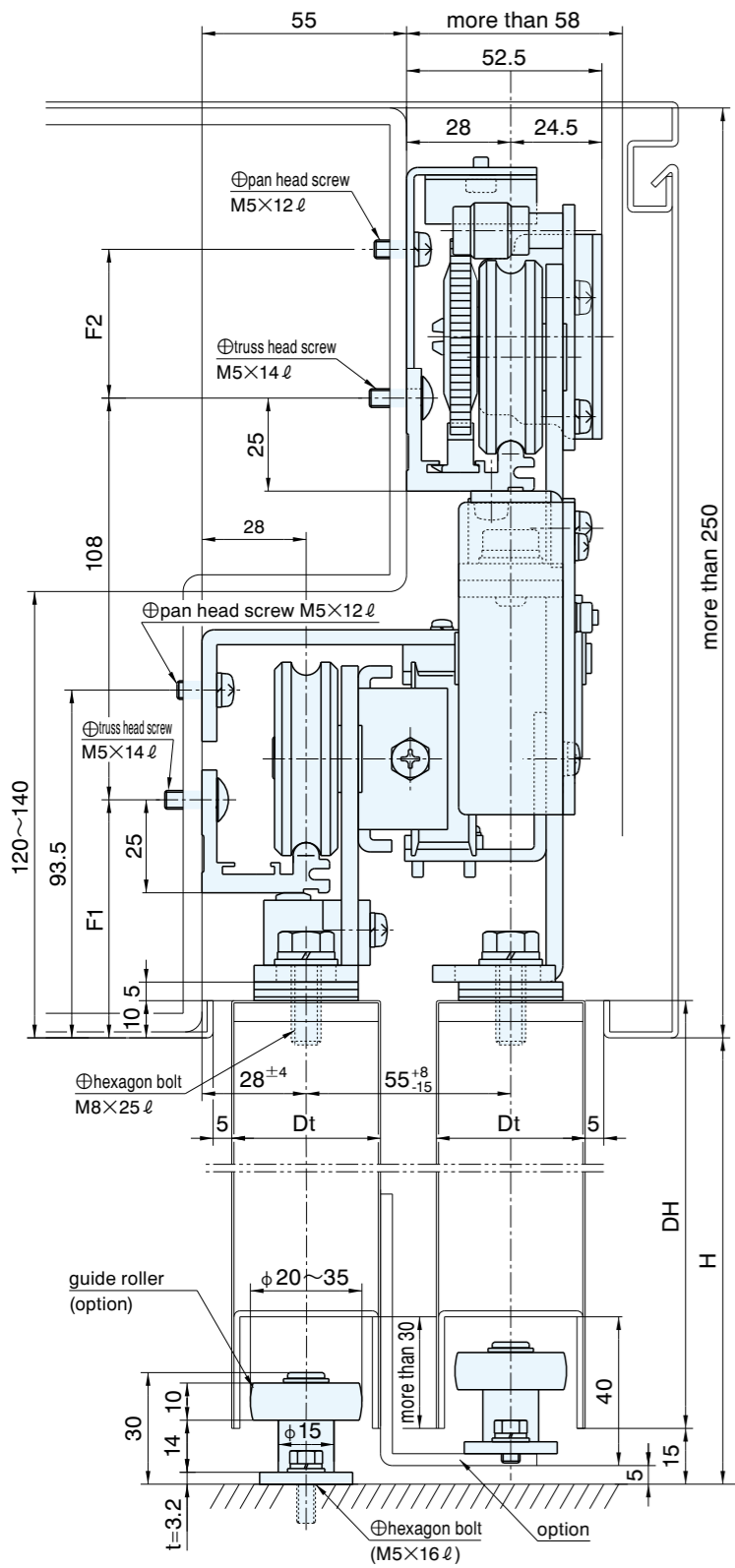


## Remark

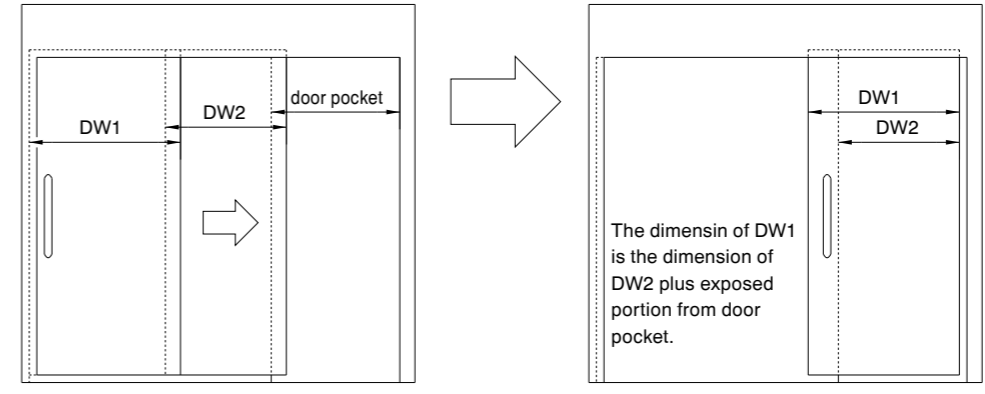
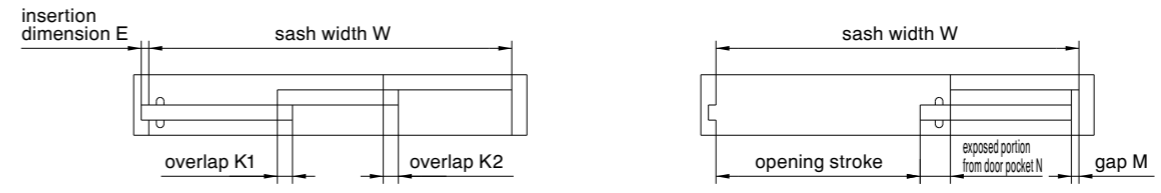
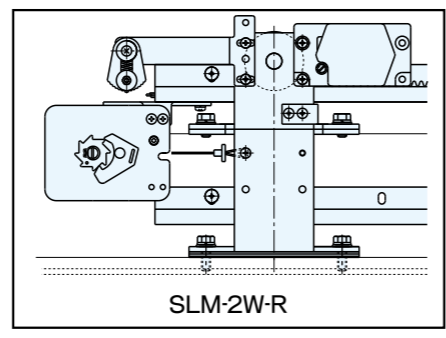
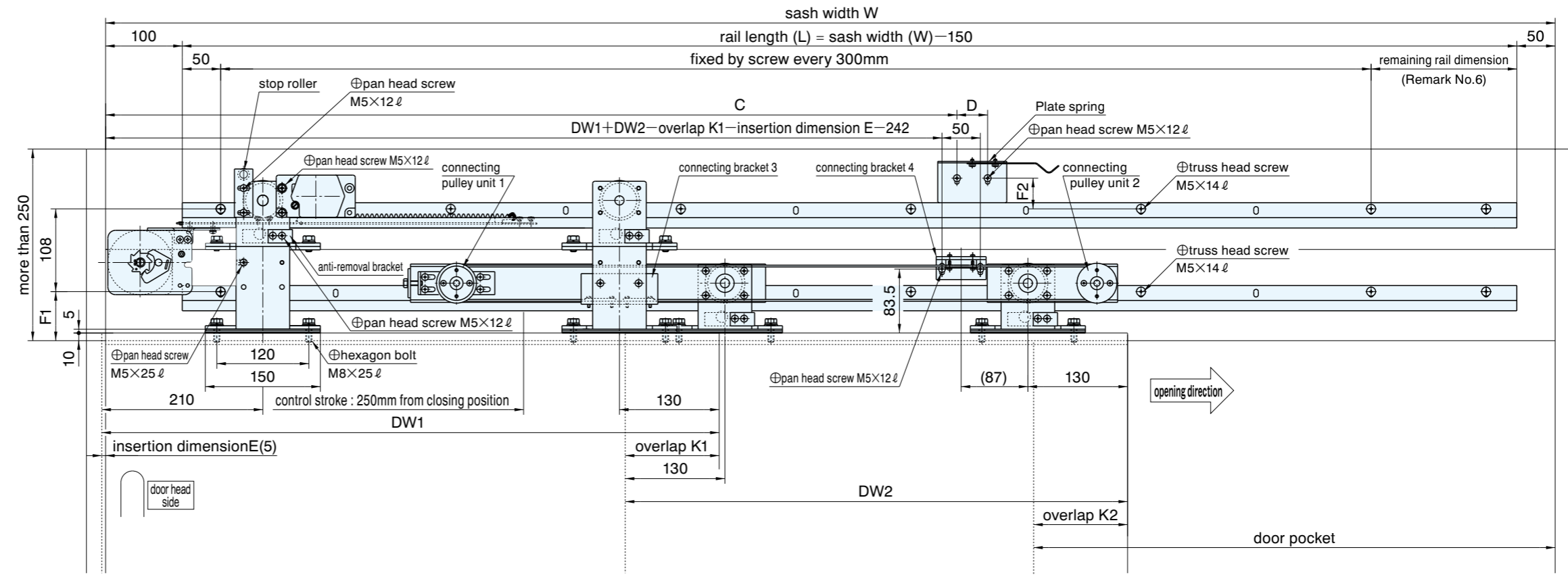
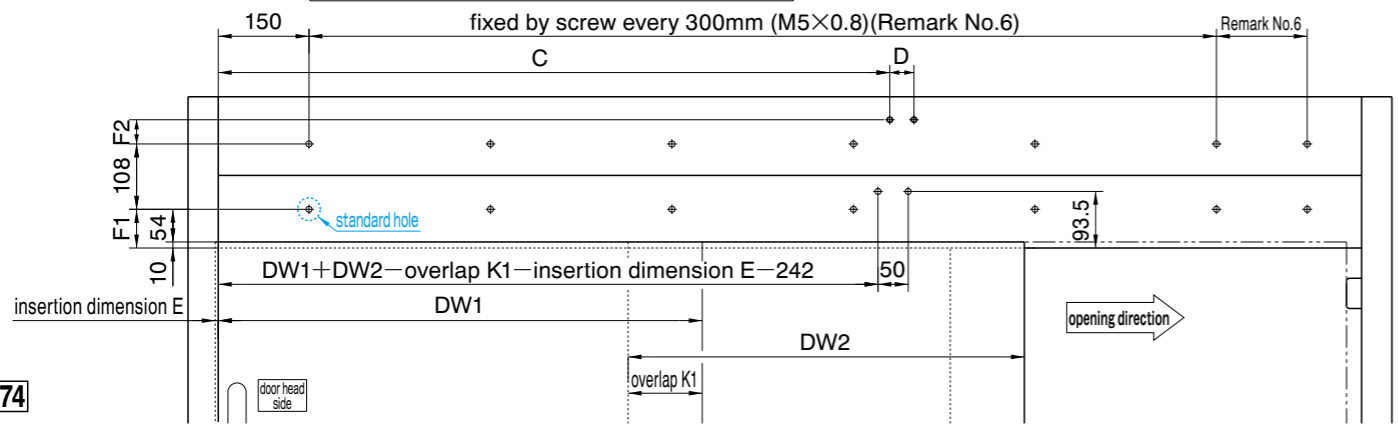
1. This drawing is SLS-2D (w/h Hold-open device)
2. Hold-open device is not included with SL-2D (w/o Hold-open device)
3. SLM-2D includes MHO-2 instead of Hold-open device.
4. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
5. Fixed by a screw every 300mm. If the remaining rail more than 155mm, fixed by a screw position 150mm away from the final position.
6. ( ) dimensions are reference dimensions.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2D	600 - 1300 ×2400	less than 60 (total door weight)
With Hold-open	SLS-2D		
With Multi Hold-open	SLM-2D		

# SL-2W-R WITH DRIVE DEVICE TELESCOPIA (RIGHTWARD) FOR STEEL DOOR



**Hole pattern on inside view**



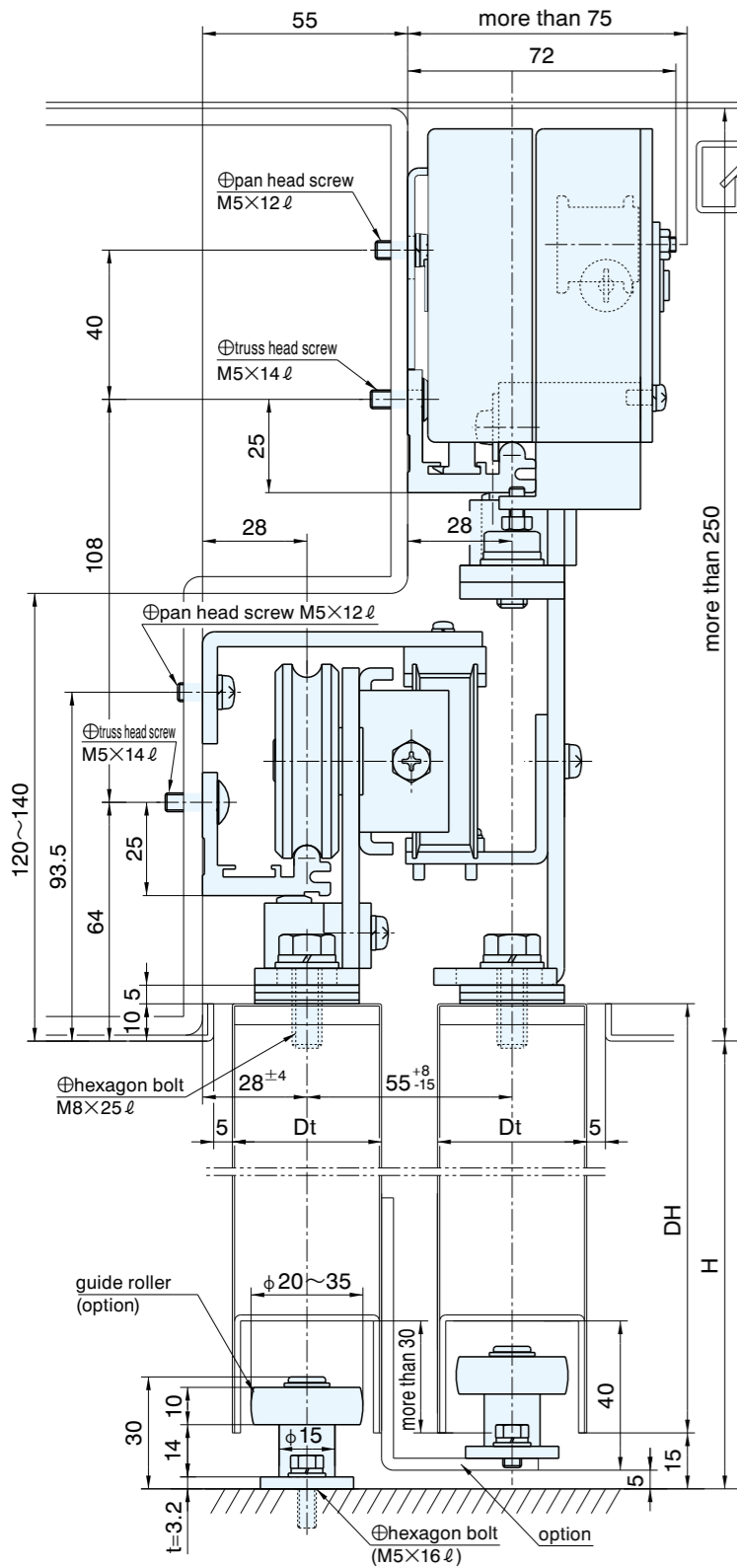
- Remark**
1. This is used both for rightward and leftward.
  2. This drawing is SLS-2W-R (w/h Hold-open devise)
  3. Hold-open device is not included with SL-2W-R (w/o Hold-open device)
  4. SLM-2W-R includes MHO-2 instead of Hold-open devise.
  5. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
  6. Fixed by a screw every 300mm. If the remaining rail more than 150mm, fixed by a screw position 150mm away from the final position.
  7. ( ) dimensions are reference dimensions.
  8. Do not use for double side door pocket specifications and storing-in-wall specifications. Your hand may be caught between the door pocket and door.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2W-R	DW1	less than 60
With Hold-open	SLS-2W-R	550 - 905	60
With Multi Hold-open	SLM-2W-R	×2400	(total door weight)

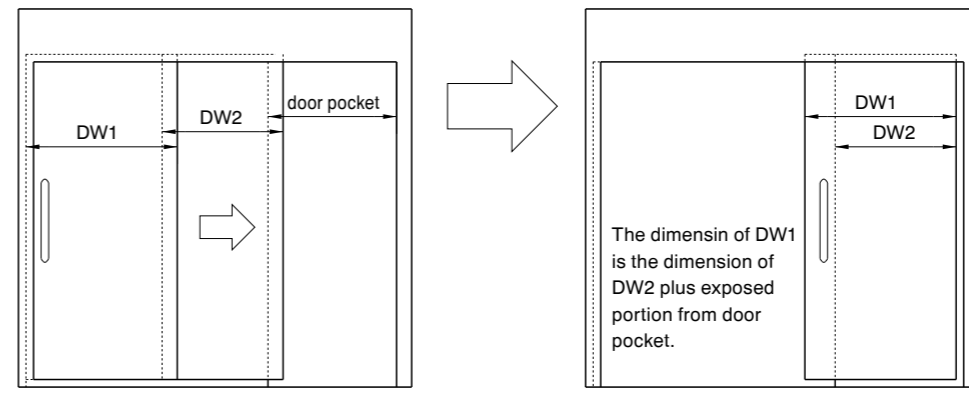
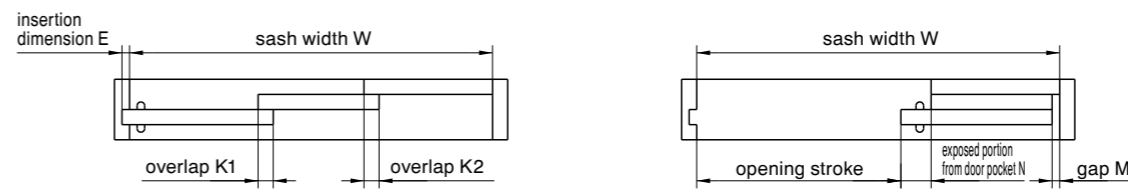
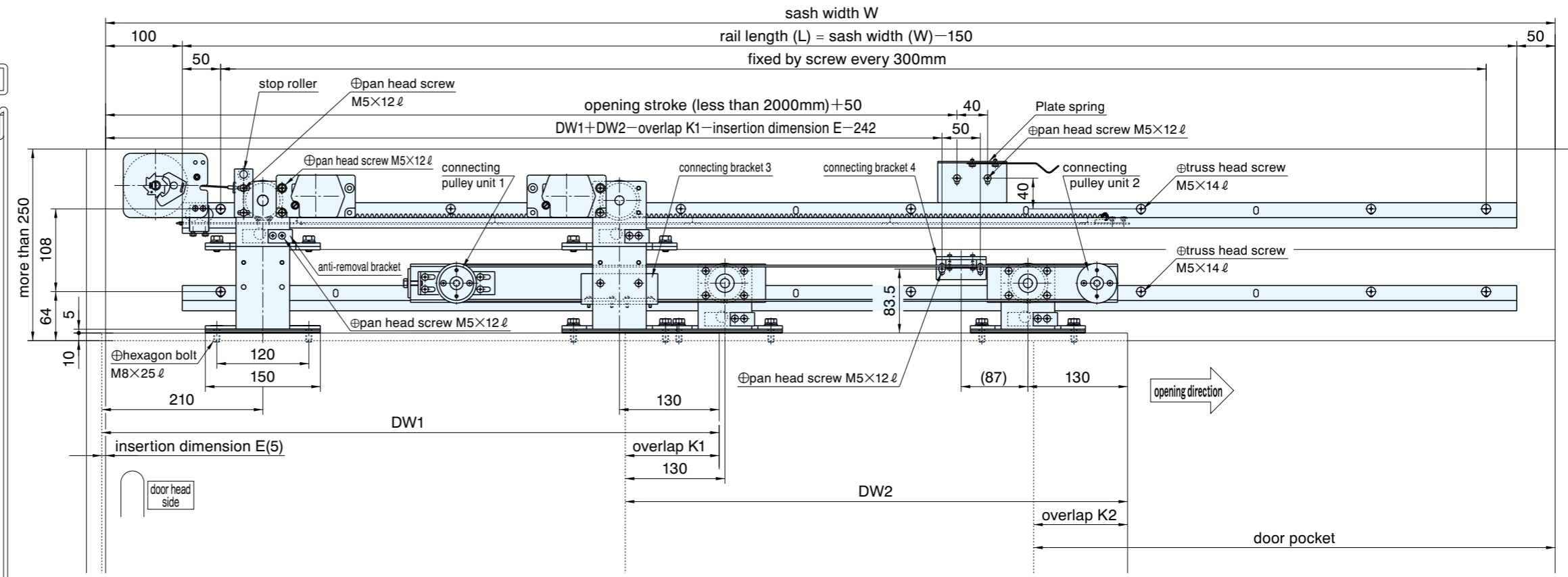
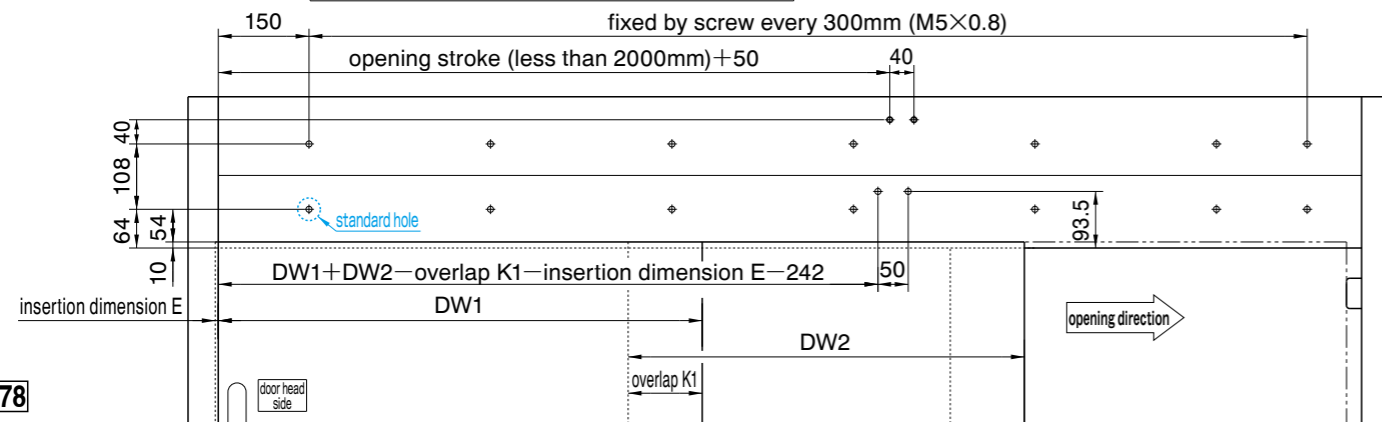
MODEL	TYPE	C	D	F1	F2
SL-2W-R	With backcheck rack	Opening Stroke + 20	100	64	26
SLS-2W-R					
SL-2W-R	With plate spring	Opening Stroke + 50	40	64	40
SLS-2W-R					



# SL-2HW150-R WITH DRIVE DEVICE TELESCOPIA (RIGHTWARD) FOR STEEL DOOR



Hole pattern on inside view



Door size DW(mm)	Rack B
800 - 900	4pcs.
901 - 1000	5pcs.
1001 - 1100	6pcs.
1101 - 1200	7pcs.
1201 - 1255	8pcs.

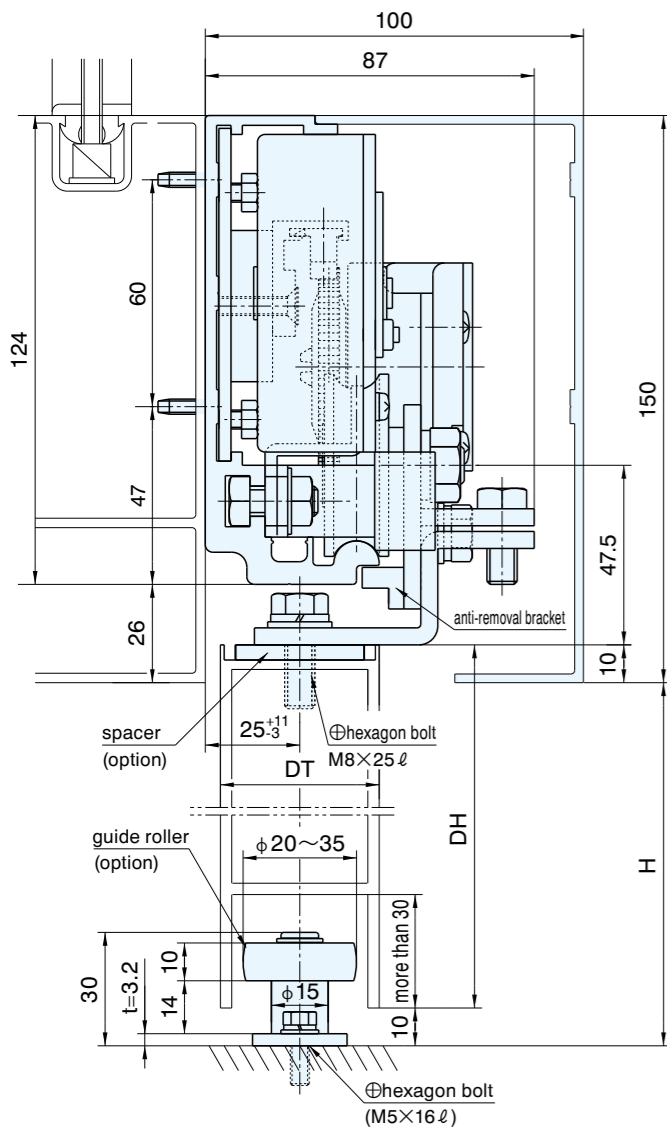
- Remark
1. This is used both for rightward and leftward.
  2. This drawing is SLS-2HW150-R (w/h Hold-open device)
  3. Hold-open device is not included with SL-2HW150-R (w/o Hold-open device)
  4. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
  5. Quantity of rack B is according to door size (door width).
  6. ( ) dimensions are reference dimensions.
  7. Do not use for double side door pocket specifications and storing-in-wall specifications. Your hand may be caught between the door pocket and door.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2HW150-R	DW1 800 - 1255	less than 150
With Hold-open	SLS-2HW150-R	×2400	(total door weight)

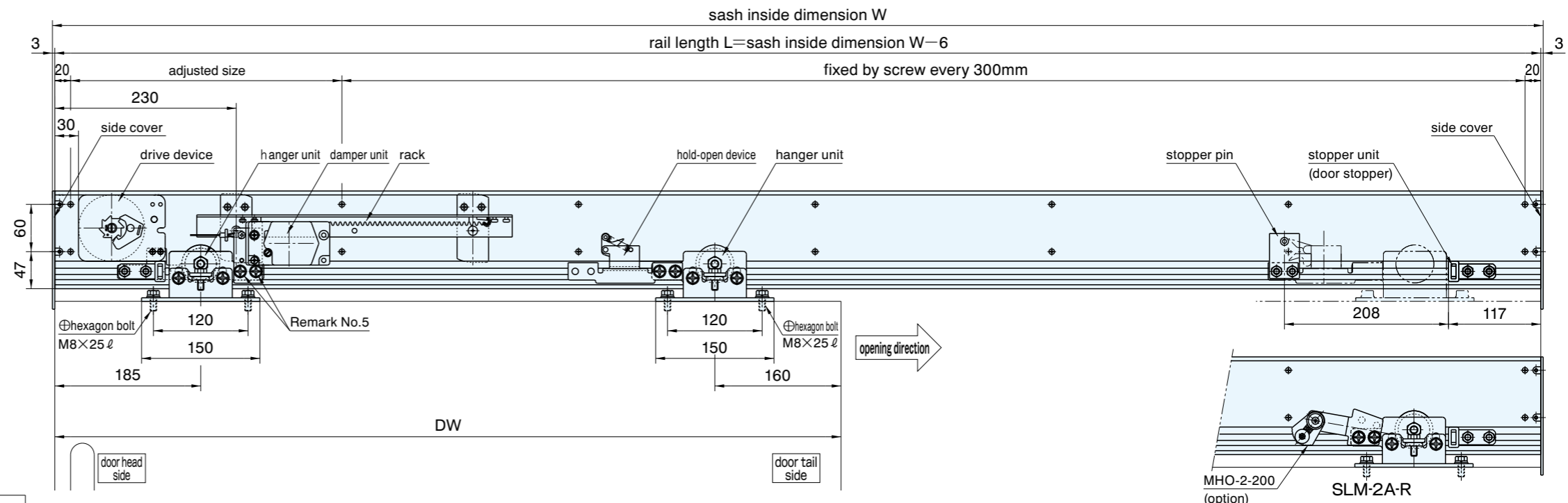




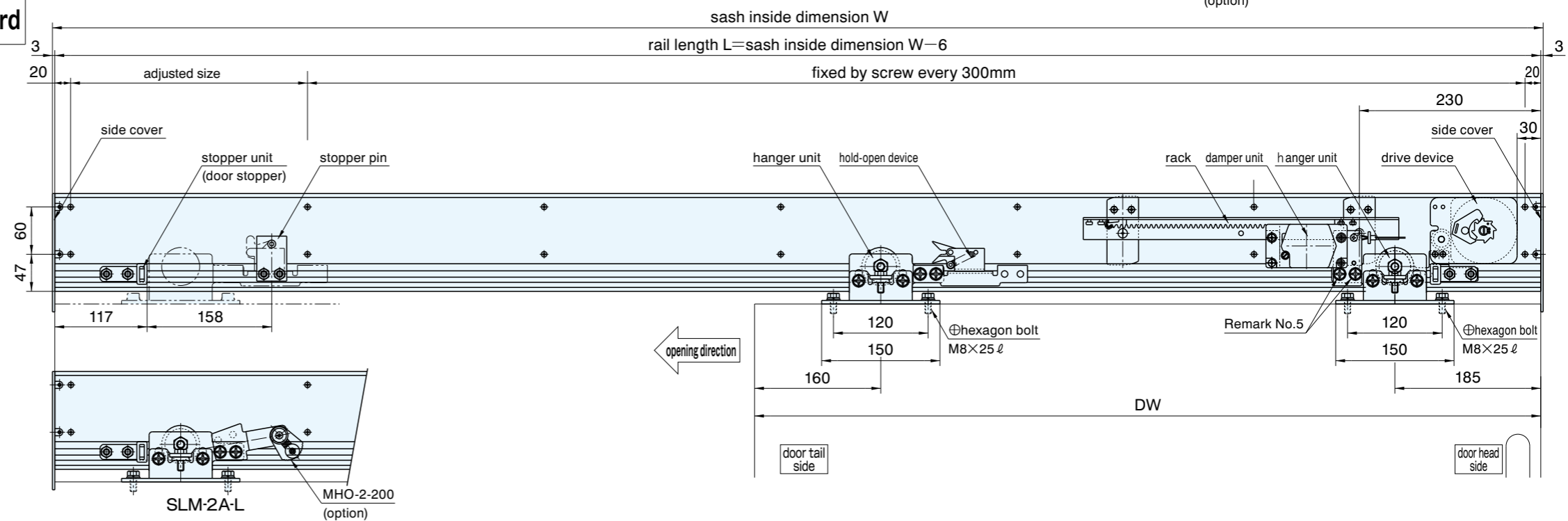
# SL-2A WITH DRIVE DEVICE SINGLE OPENING FOR ALUMINUM DOOR



rightward



leftward

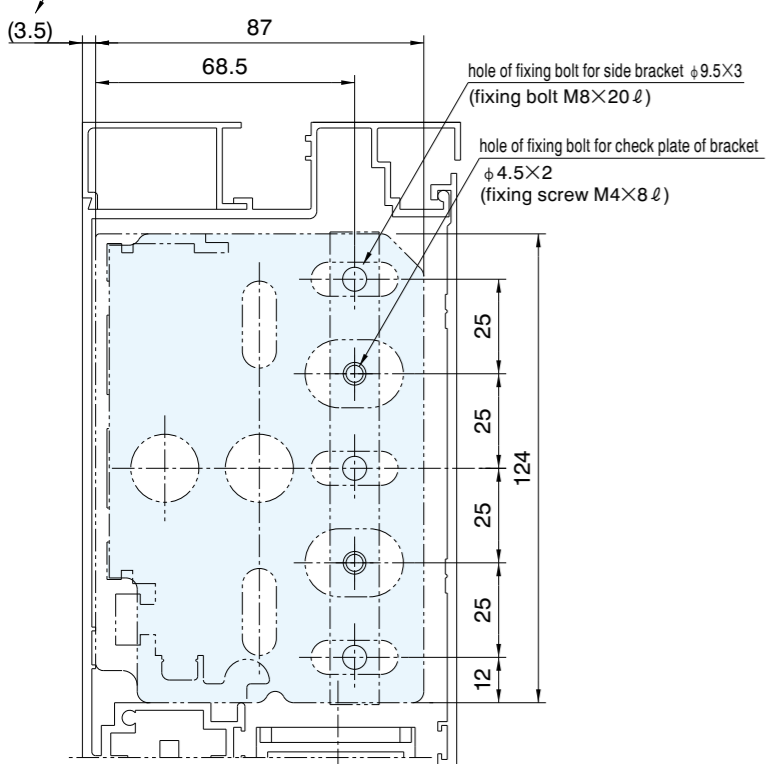
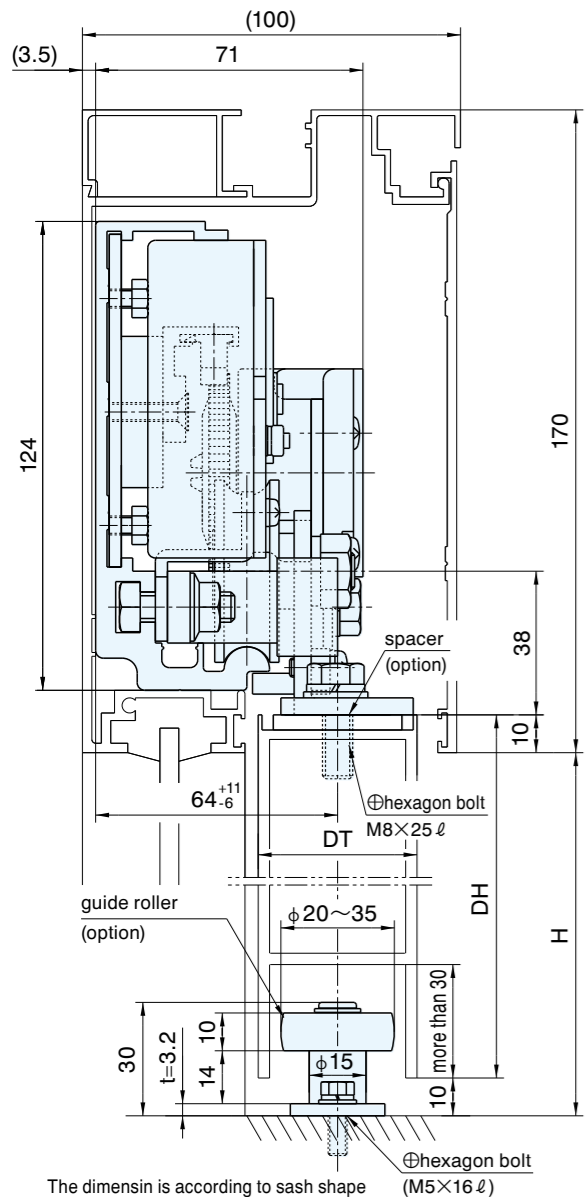


### Remark

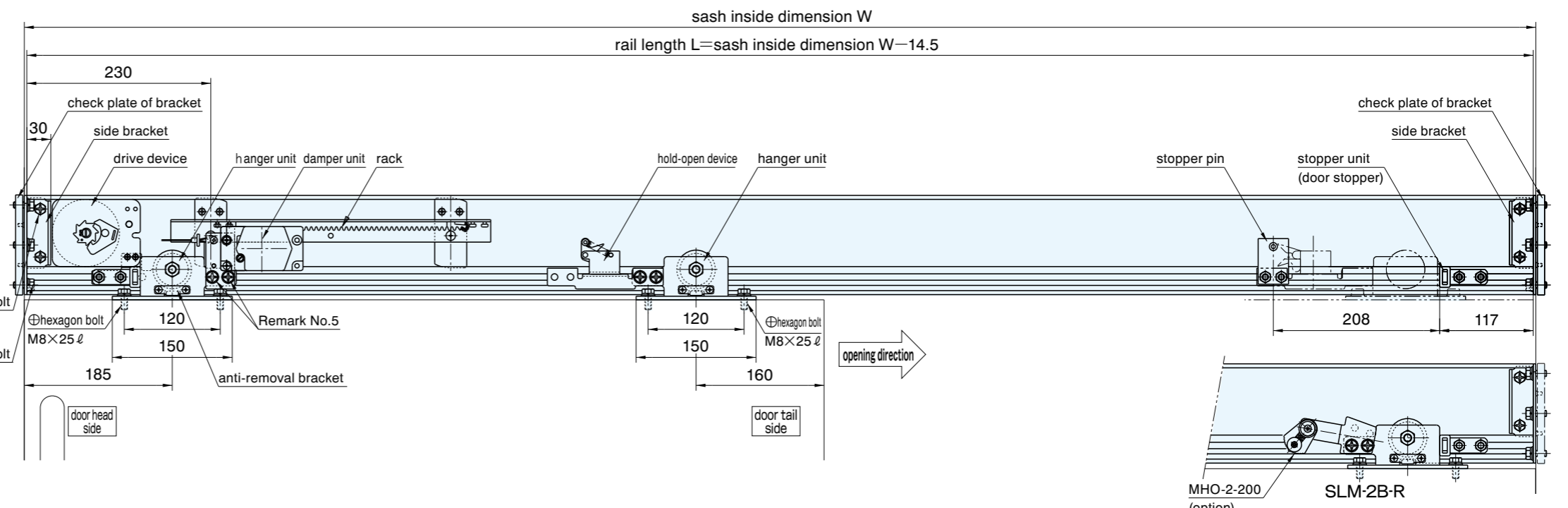
1. This drawing is SLS-2A (w/h Hold-open devise)
2. Hold-open device is not included with SL-2A (w/o Hold-open device)
3. SLM-2A includes MHO-2-200 instead of Hold-open device.
4. If the mohair and door contact too strongly, the door may not close, therefore, pay careful attention to installation.
5. When tightening the bolts, press the damper unit against the rack to install so that there is sufficient engagement.
6. Because the door center is deviated from the pulley hanging center, the door is pressed against the anti-vibration bracket and sliding resistance becomes larger. Therefore, make sure to use a guide roller.
7. ( ) dimensions are reference dimensions.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2A	700 - 1450 ×2400	less than 50
With Hold-open	SLS-2A		
With Multi Hold-open	SLM-2A		

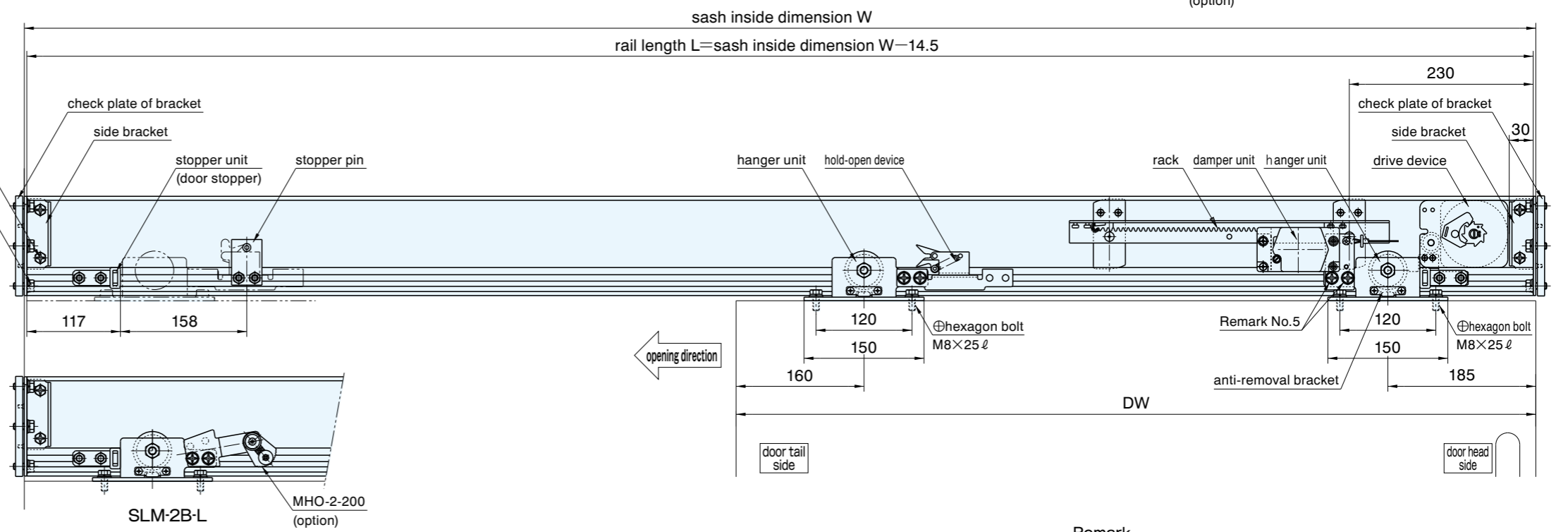
# SL-2B WITH DRIVE DEVICE SINGLE OPENING FOR ALUMINUM DOOR



rightward



leftward

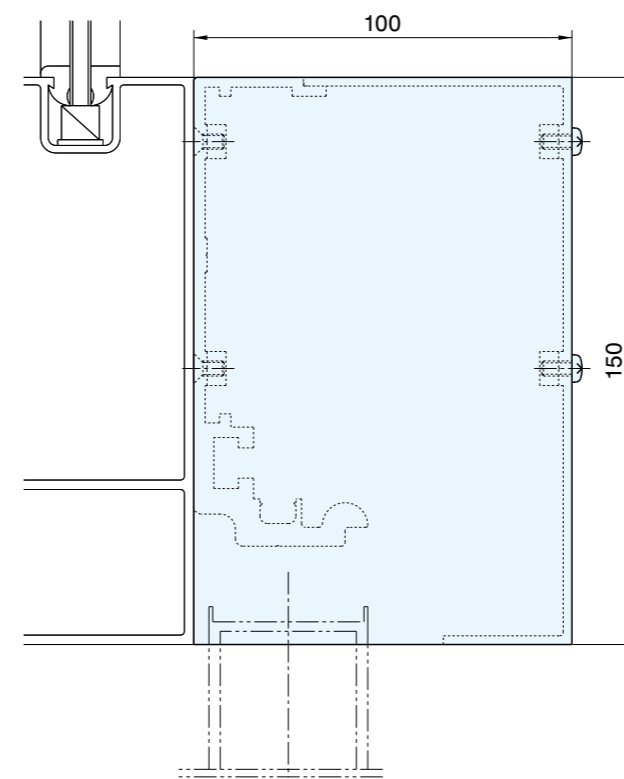
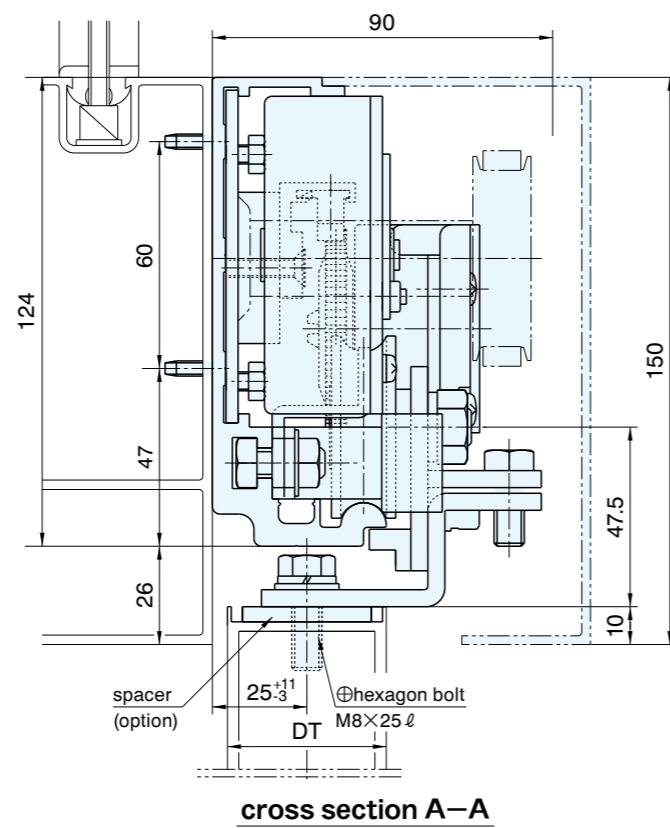
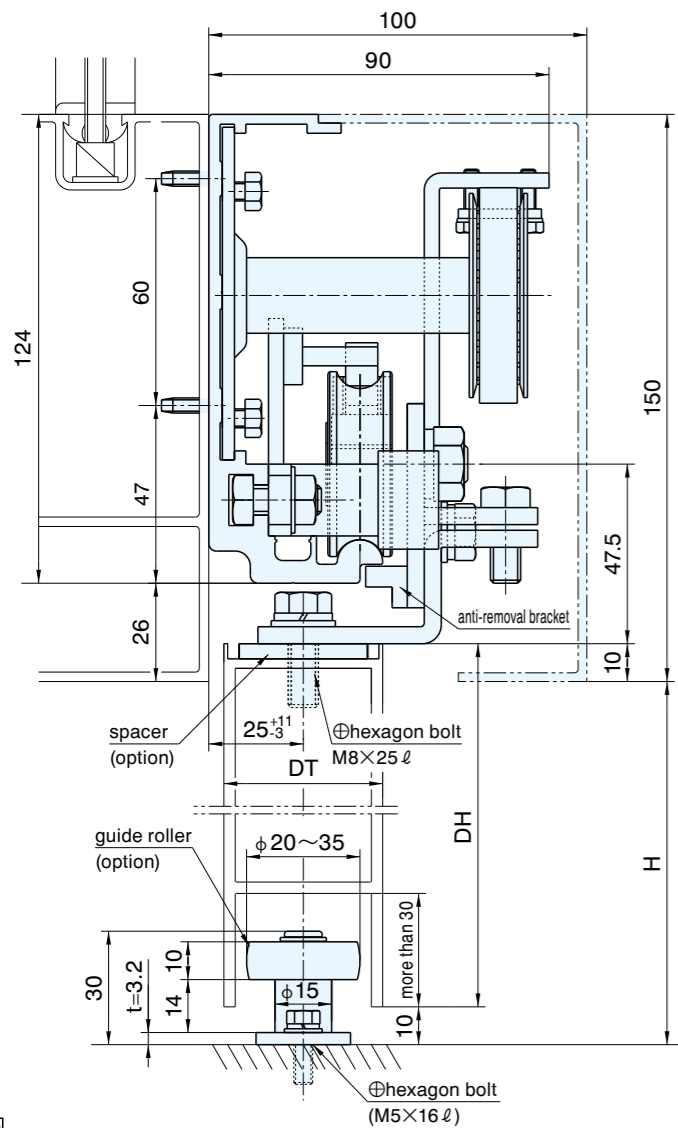
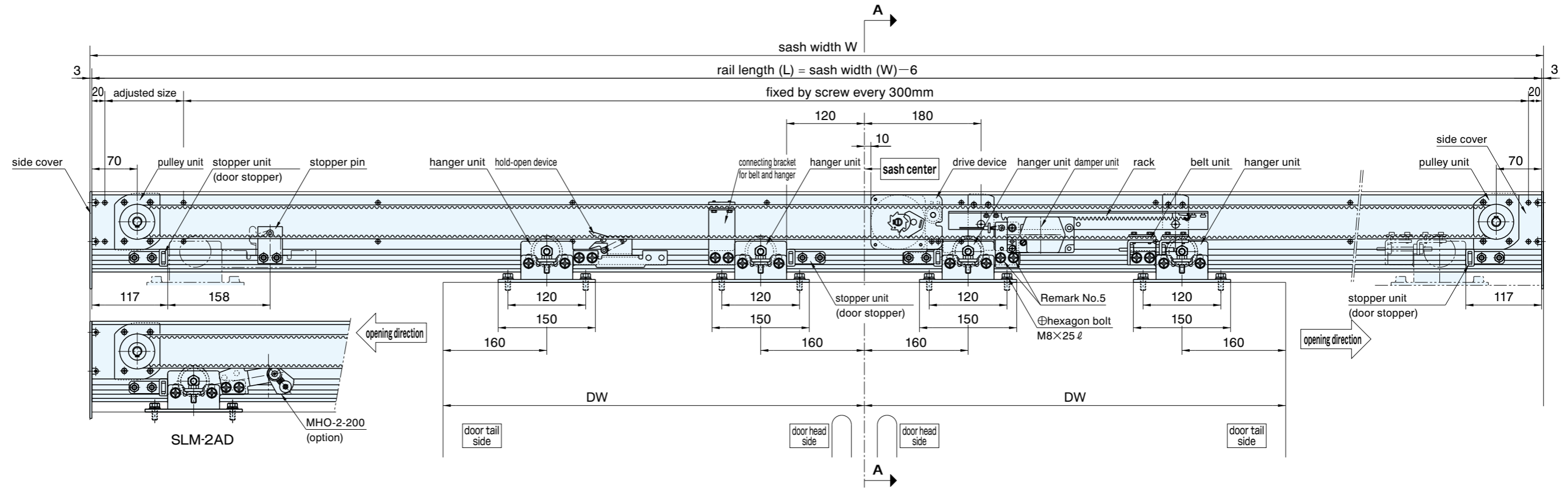


**Remark**

1. This drawing is SLS-2B (w/h Hold-open devise)
2. Hold-open device is not included with SL-2B (w/o Hold-open device)
3. SLM-2B includes MHO-2-200 instead of Hold-open devise.
4. If the mohair and door contact too strongly, the door may not close, therefore, pay careful attention to installation.
5. When tightening the bolts, press the damper unit against the rack to install so that there is sufficient engagement.
6. Because the door center is deviated from the pulley hanging center, the door is pressed against the anti-vibration bracket and sliding resistance becomes larger. Therefore, make sure to use a guide roller.
7. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
8. ( ) dimensions are reference dimensions.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2B	700 - 1450 ×2400	less than 50
With Hold-open	SLS-2B		
With Multi Hold-open	SLM-2B		

# SL-2AD WITH DRIVE DEVICE BI-PARTING FOR ALUMINUM DOOR

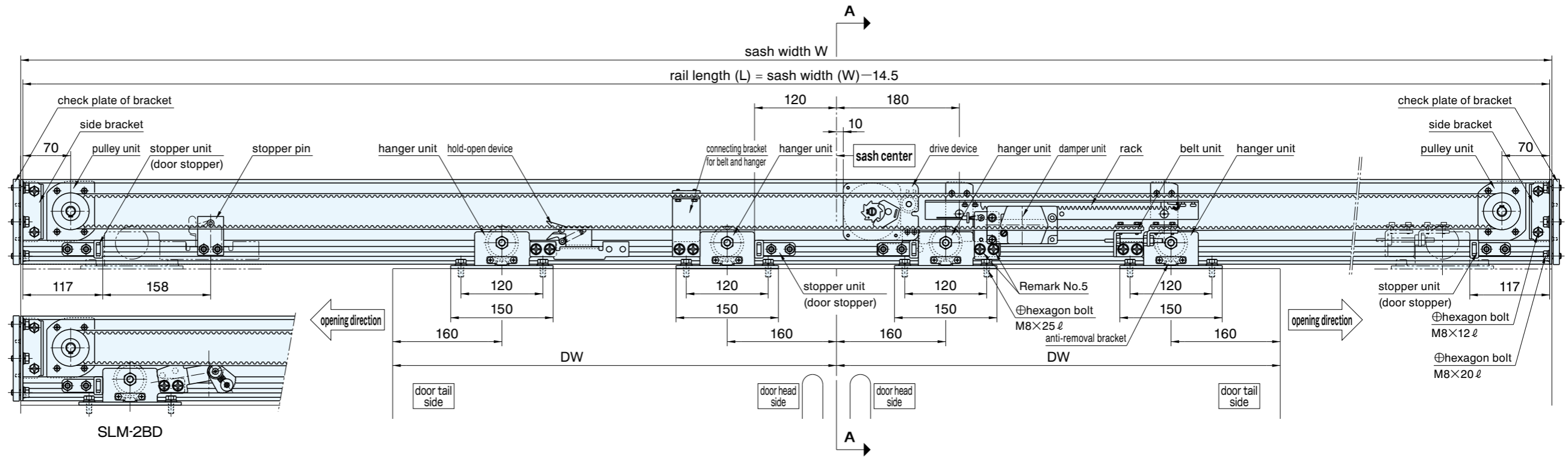


**Remark**

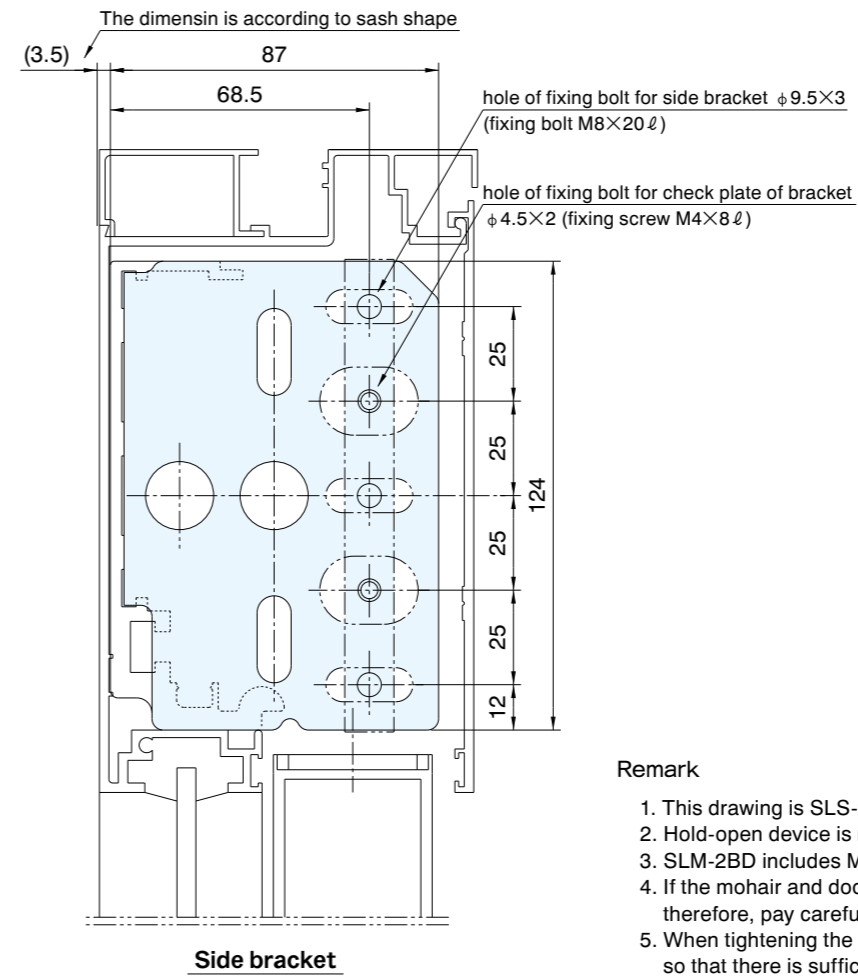
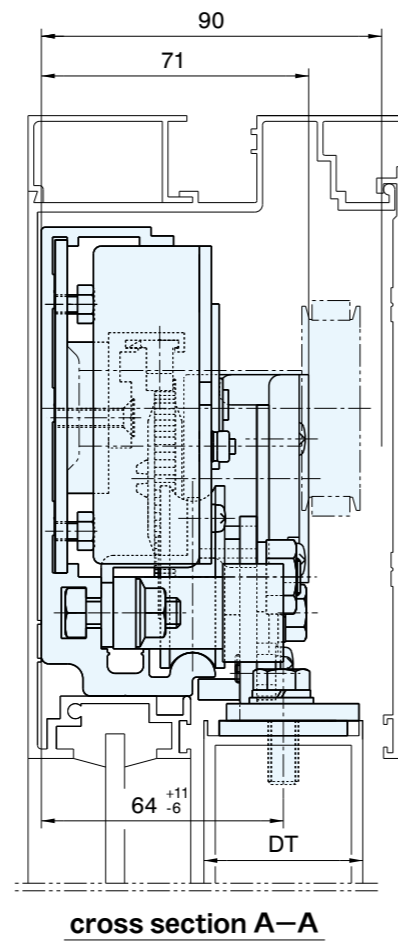
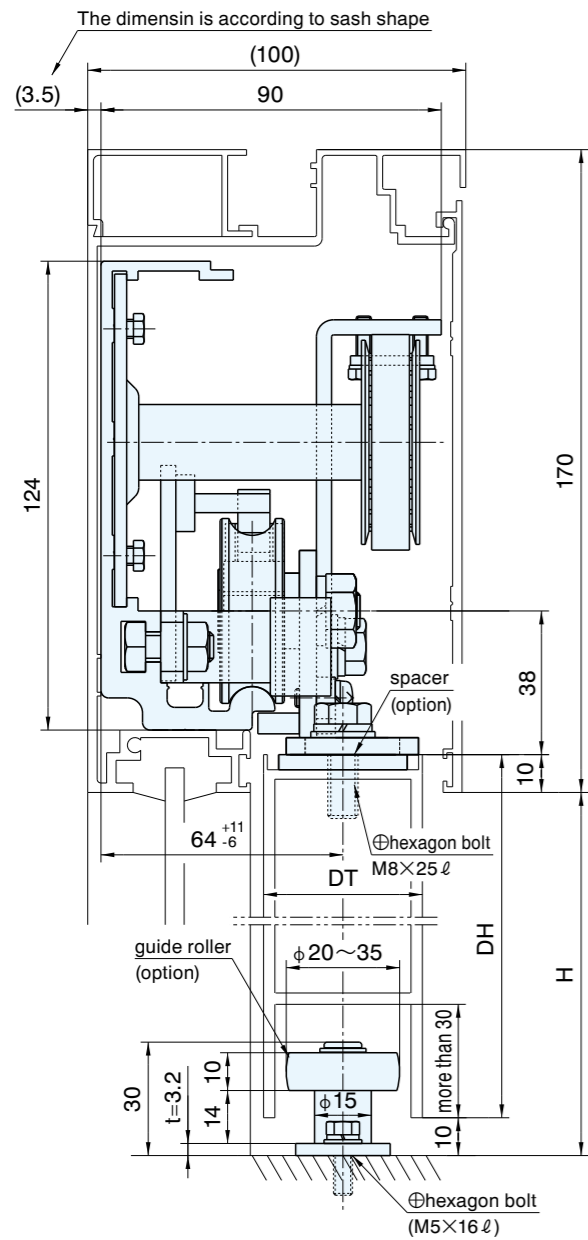
1. This drawing is SLS-2AD (w/h Hold-open devise)
2. Hold-open device is not included with SL-2AD (w/o Hold-open device)
3. SLM-2AD includes MHO-2-200 instead of Hold-open devise.
4. If the mohair and door contact too strongly, the door may not close, therefore, pay careful attention to installation.
5. When tightening the bolts, press the damper unit against the rack to install so that there is sufficient engagement.
6. Because the door center is deviated from the pulley hanging center, the door is pressed against the anti-vibration bracket and sliding resistance becomes larger. Therefore, make sure to use a guide roller.
7. ( ) dimensions are reference dimensions.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2AD	700 - 1450 ×2400	less than 80 (total door weight)
With Hold-open	SLS-2AD		
With Multi Hold-open	SLM-2AD		

# SL-2BD WITH DRIVE DEVICE BI-PARTING FOR ALUMINUM DOOR



SLM-2BD

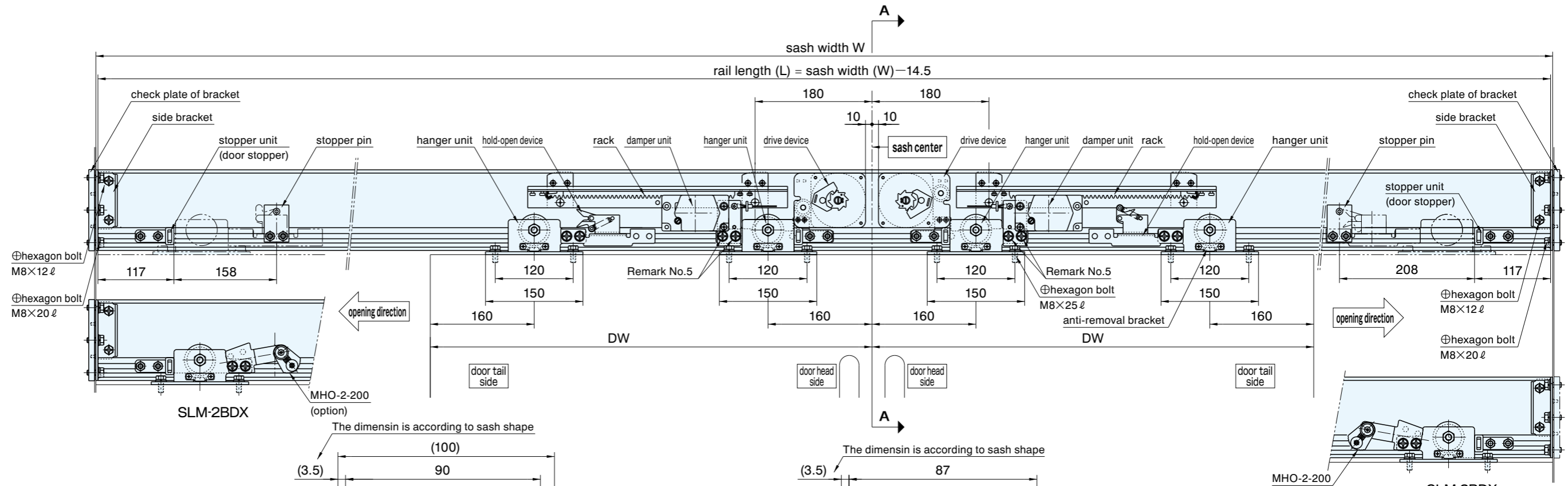


**Remark**

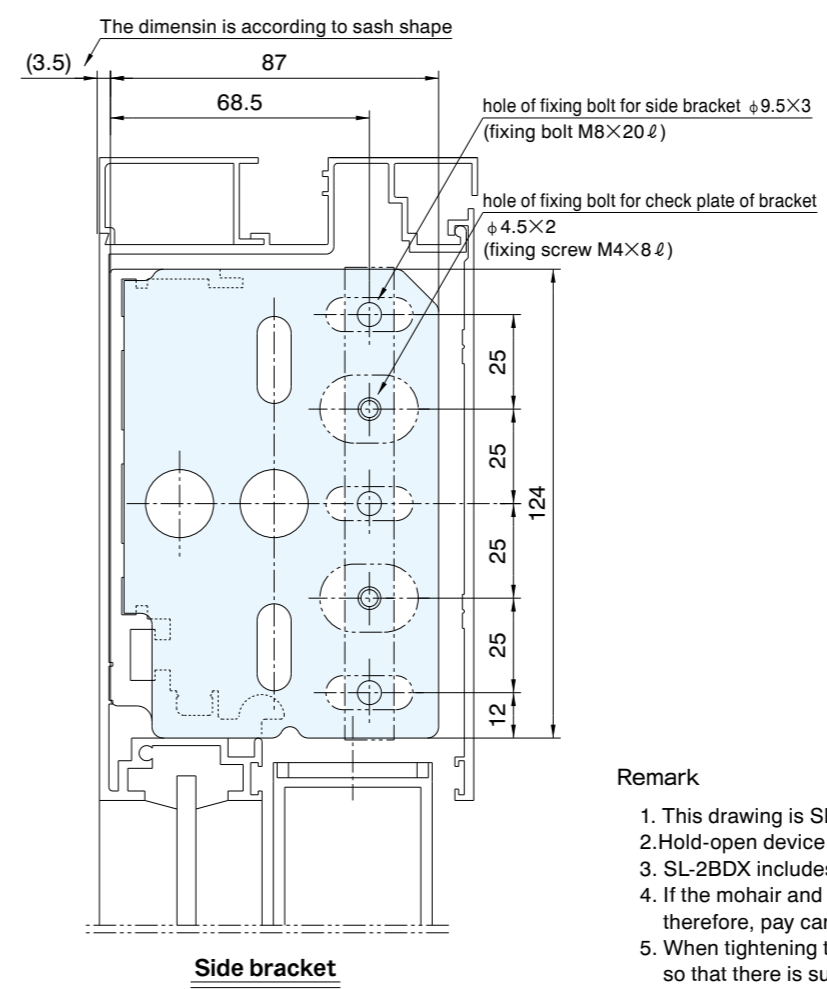
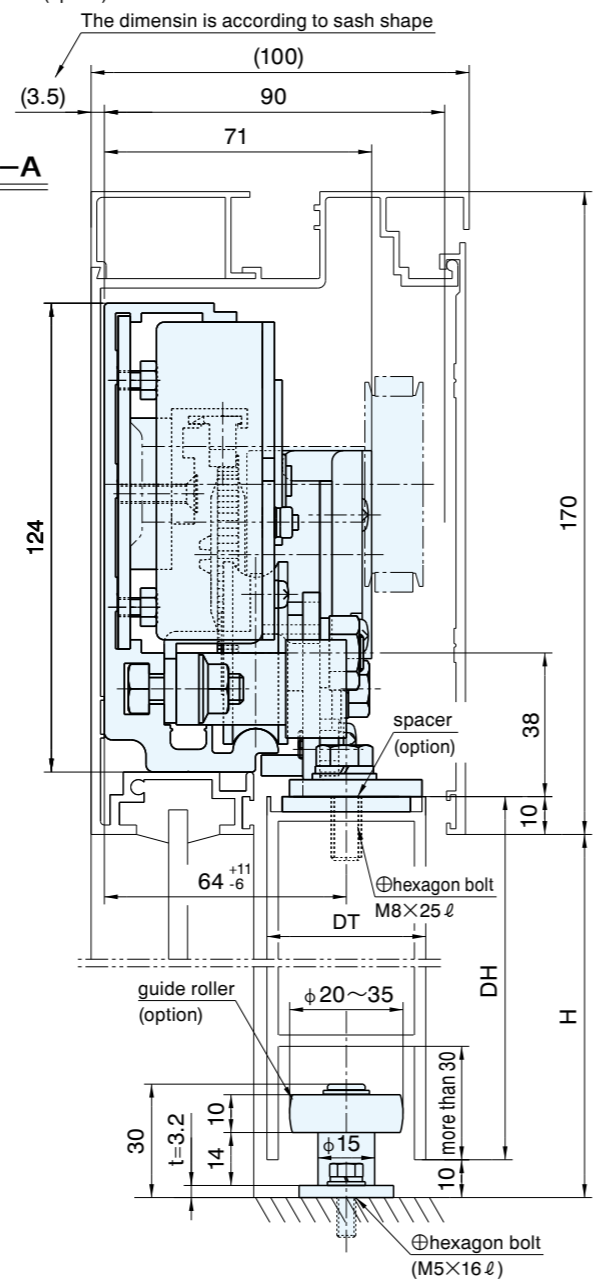
1. This drawing is SLS-2BD (w/h Hold-open devise)
2. Hold-open device is not included with SL-2BD (w/o Hold-open device)
3. SLM-2BD includes MHO-2-200 instead of Hold-open devise.
4. If the mohair and door contact too strongly, the door may not close, therefore, pay careful attention to installation.
5. When tightening the bolts, press the damper unit against the rack to install so that there is sufficient engagement.
6. Because the door center is deviated from the pulley hanging center, the door is pressed against the anti-vibration bracket and sliding resistance becomes larger. Therefore, make sure to use a guide roller.
7. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
8. ( ) dimensions are reference dimensions.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2BD	600 - 1300 ×2400	less than 80 (total door weight)
With Hold-open	SLS-2BD		
With Multi Hold-open	SLM-2BD		

# SL-2BDX WITH DRIVE DEVICE BI-PARTING FOR ALUMINUM DOOR



cross section A-A

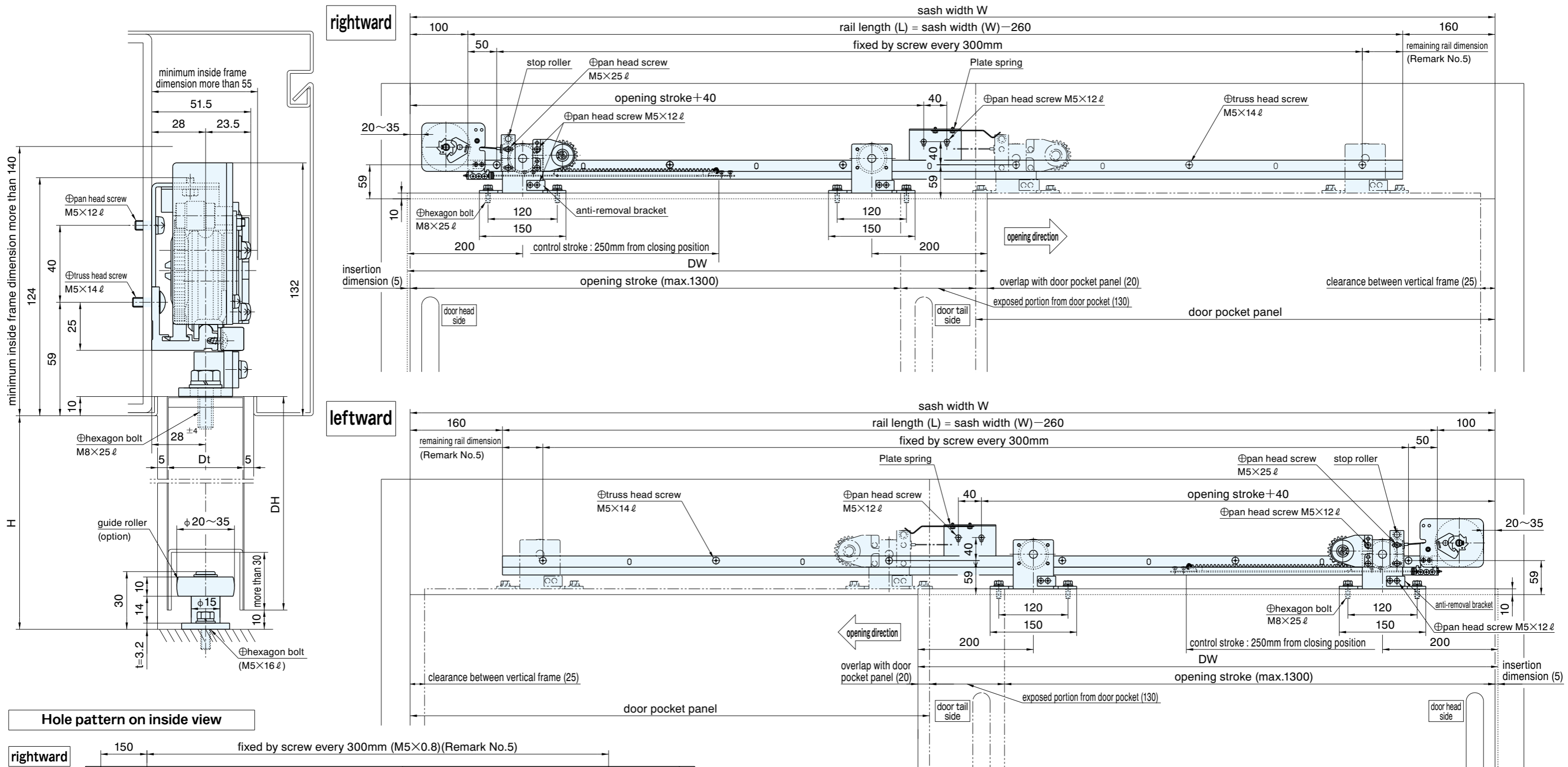


Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2BDX	700 - 1300 ×2400	less than 50 /per door
With Hold-open	SLS-2BDX		
With Multi Hold-open	SLM-2BDX		

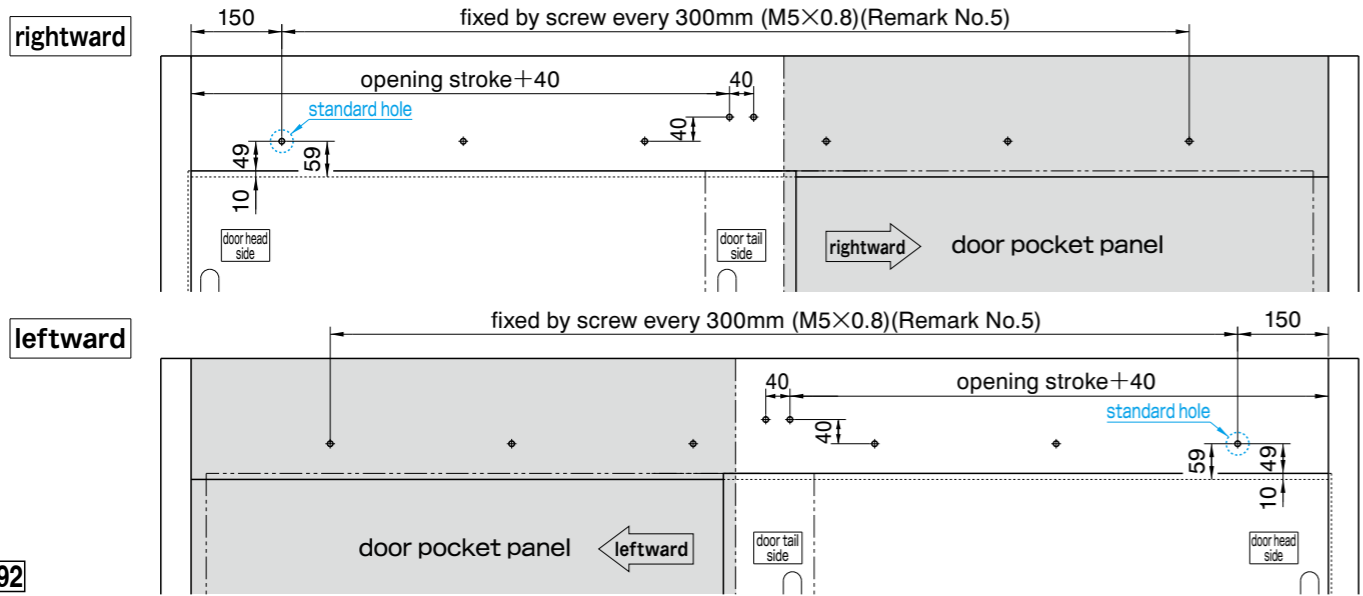
**Remark**

1. This drawing is SL-2BDX (w/h Hold-open device)
2. Hold-open device is not included with SL-2BDX (w/o Hold-open device)
3. SL-2BDX includes MHO-2-200 instead of Hold-open device.
4. If the mohair and door contact too strongly, the door may not close, therefore, pay careful attention to installation.
5. When tightening the bolts, press the damper unit against the rack to install so that there is sufficient engagement.
6. Because the door center is deviated from the pulley hanging center, the door is pressed against the anti-vibration bracket and sliding resistance becomes larger. Therefore, make sure to use a guide roller.
7. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
8. ( ) dimensions are reference dimensions.

# SL-2AQ WITH DRIVE DEVICE SINGLE FOR MOISTY PLACE



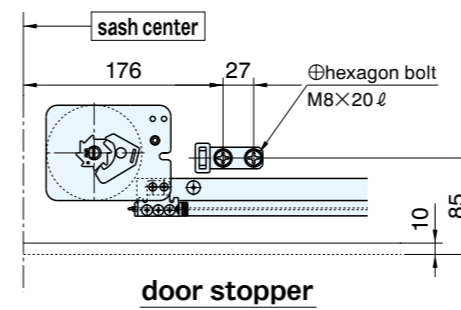
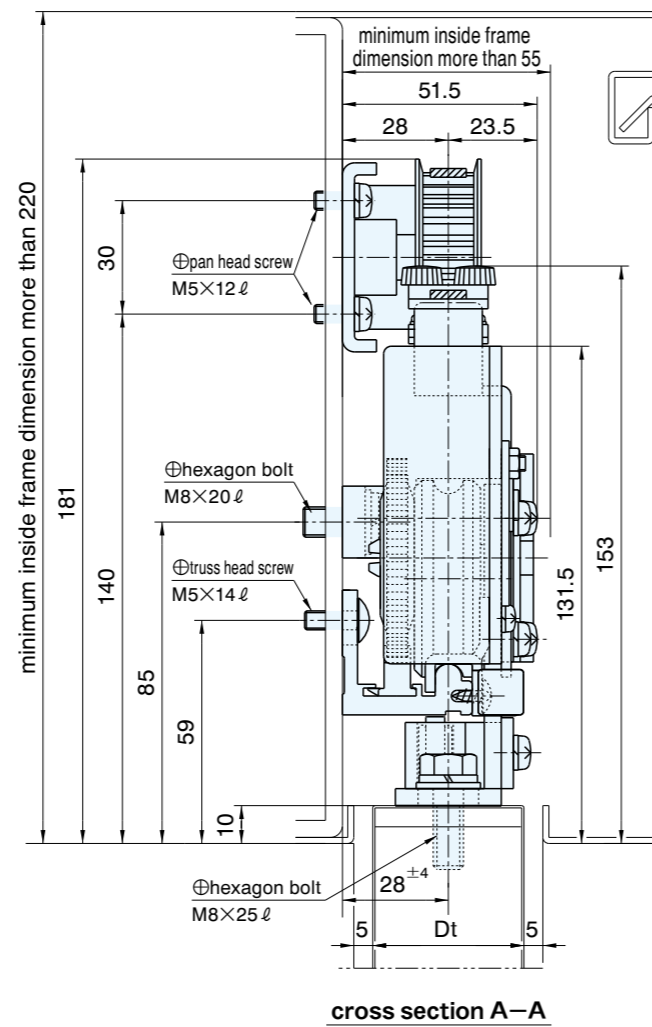
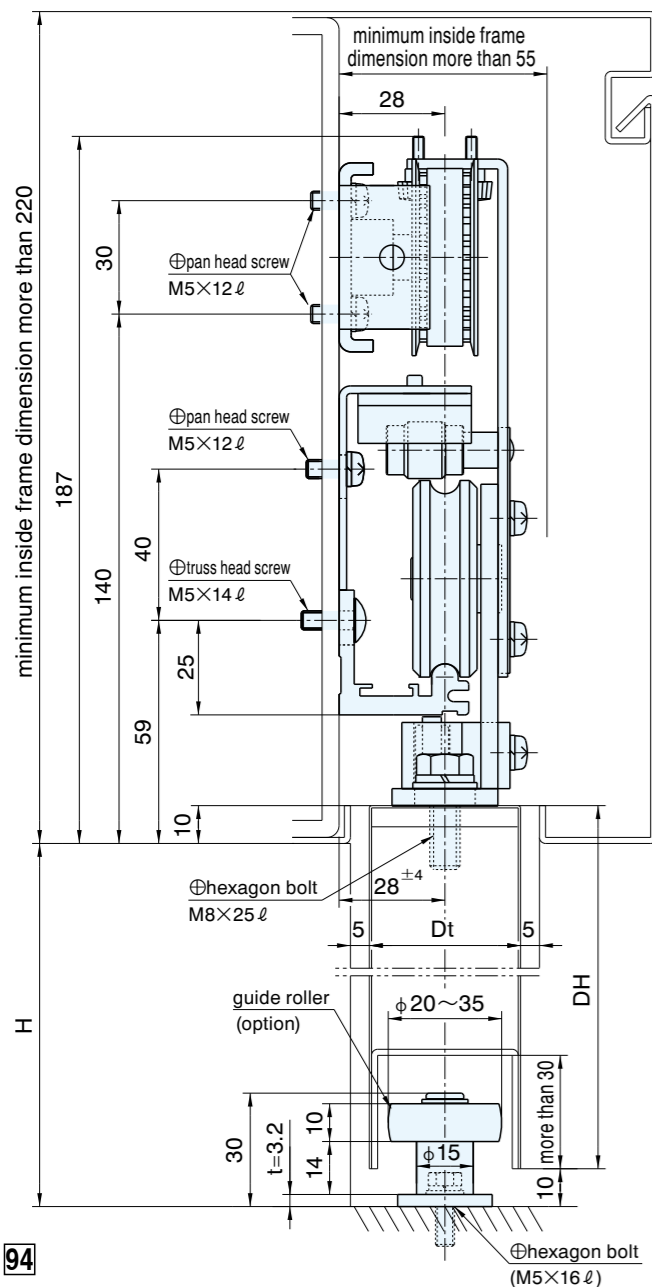
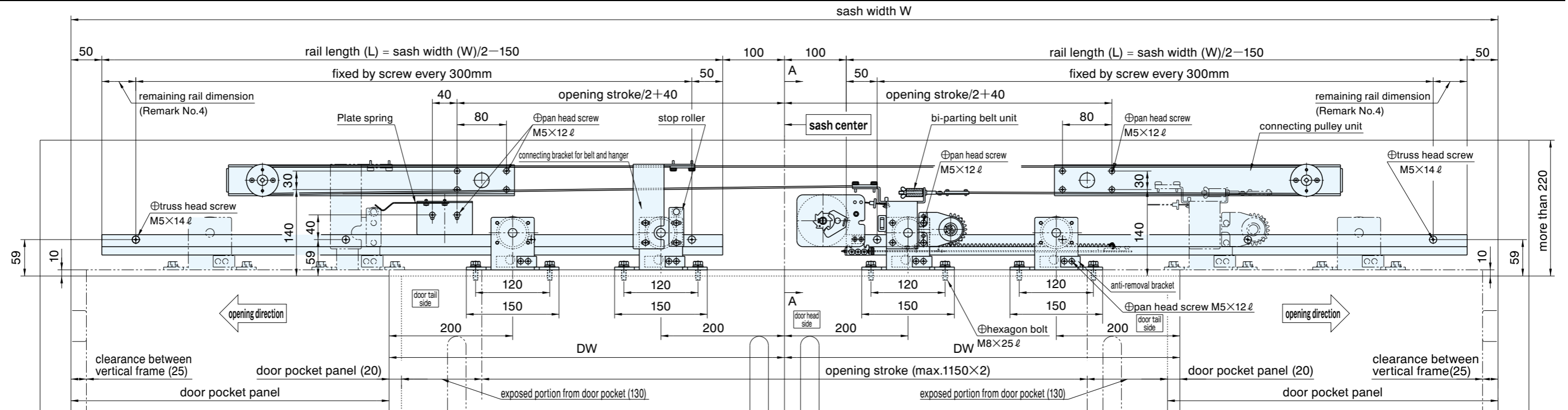
Hole pattern on inside view



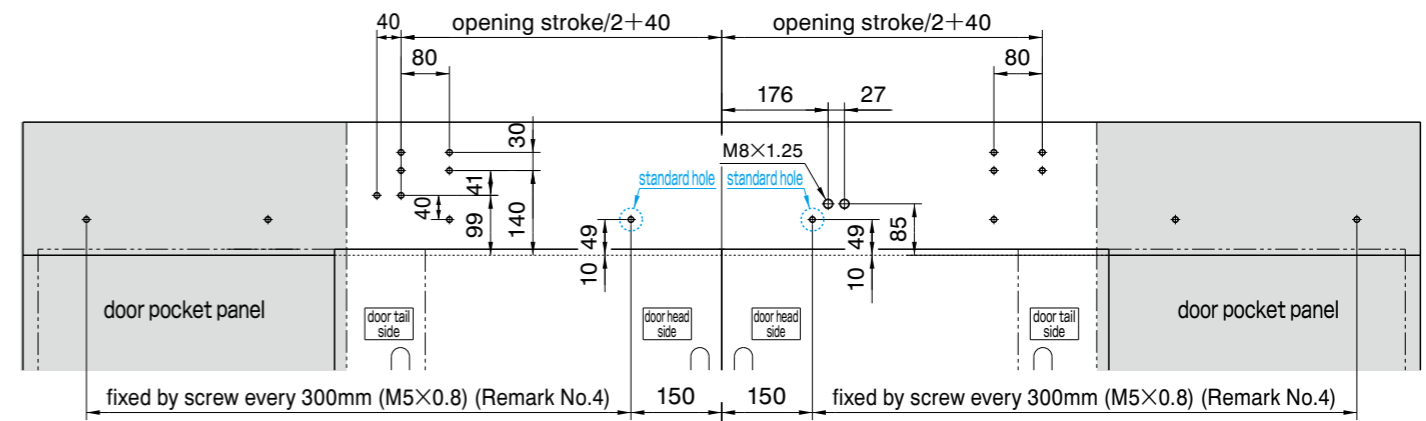
- Remark**
1. This is used both for rightward and leftward.
  2. This drawing is SLS-2AQ (w/h Hold-open device)
  3. Hold-open device is not included with SL-2AQ (w/o Hold-open device)
  4. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
  5. Fixed by a screw every 300mm. If the remaining rail more than 155mm, fixed by a screw position 150mm away from the final position.
  6. ( ) dimensions are reference dimensions.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2AQ	600 - 1450	less than 80
With Hold-open	SLS-2AQ	×2400	80

# SL-2DAQ WITH DRIVE DEVICE BI-PARTING FOR MOISTY PLACE



Hole pattern on inside view



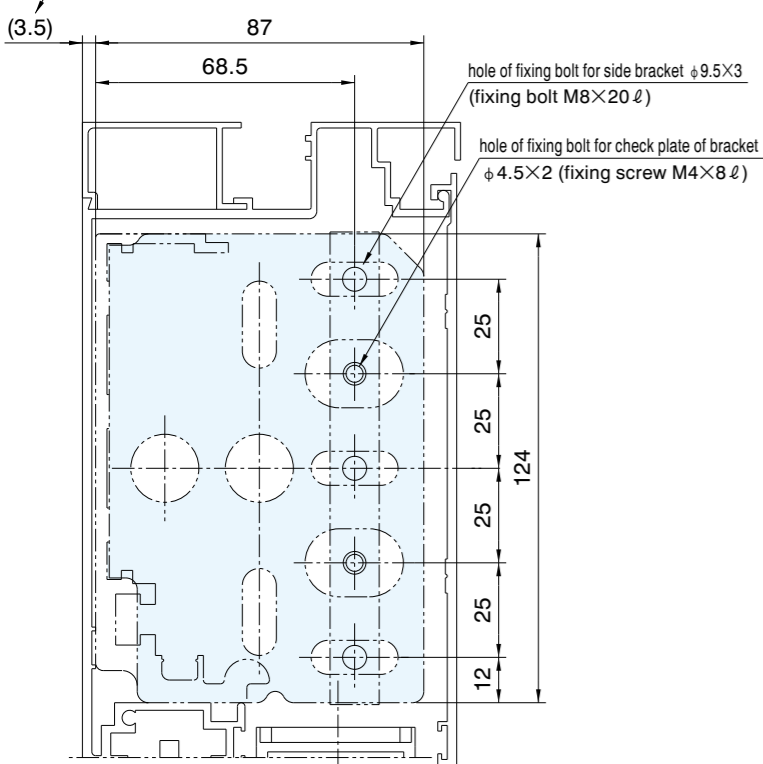
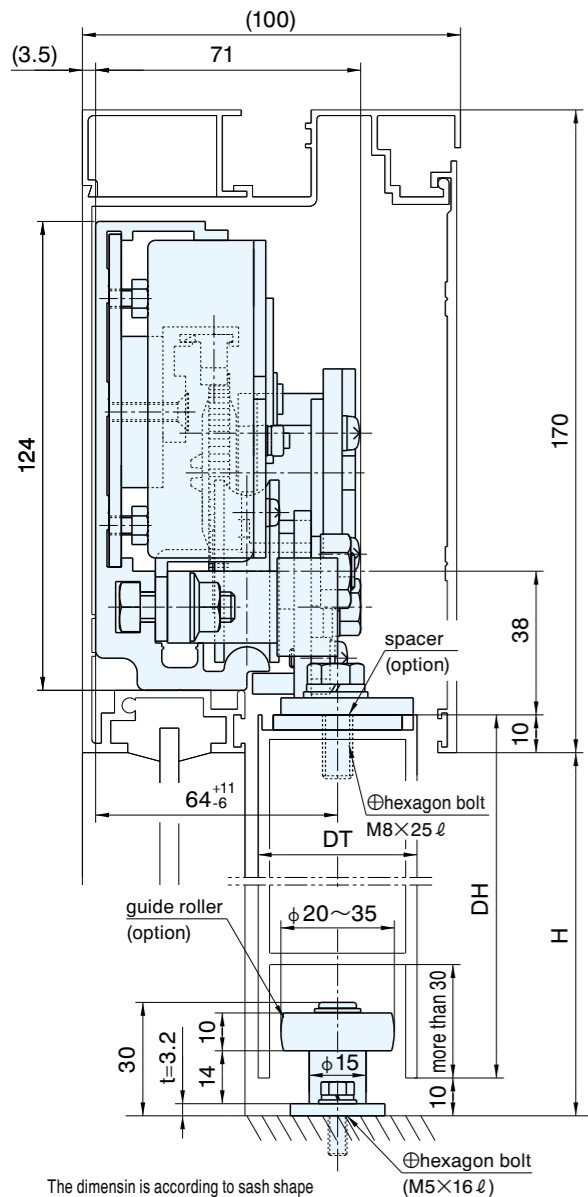
## Remark

1. This drawing is SLS-2DAQ (w/h Hold-open device)
2. Hold-open device is not included with SL-2DAQ (w/o Hold-open device)
3. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
4. Fixed by a screw every 300mm. If the remaining rail more than 155mm, fixed by a screw position 150mm away from the final position.
5. ( ) dimensions are reference dimensions.

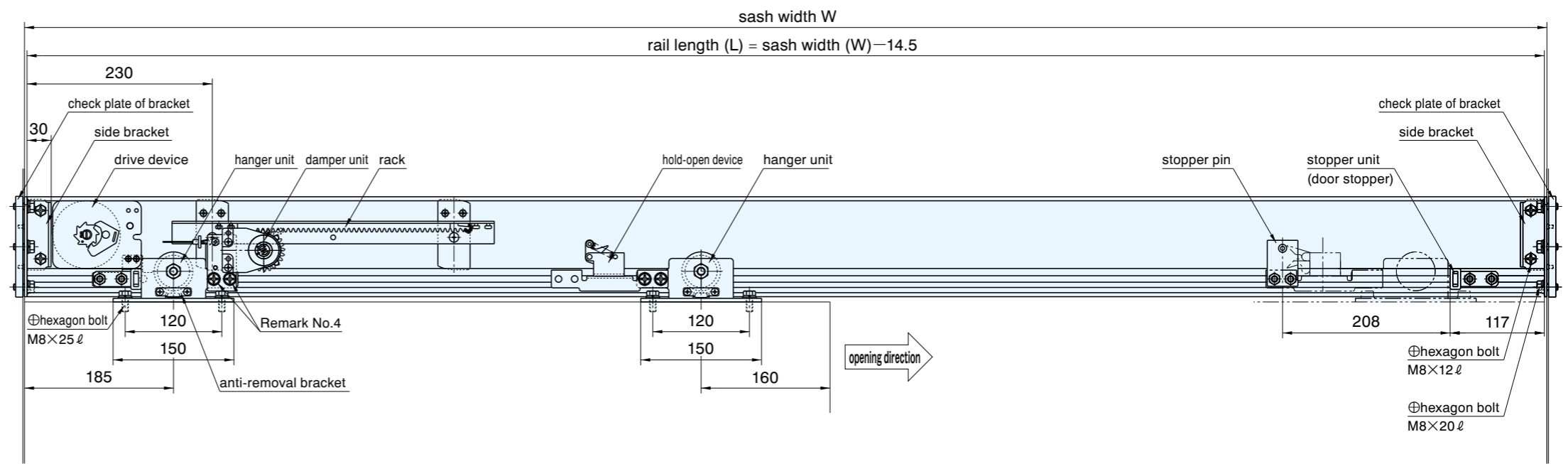
Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2DAQ	600 - 1300	less than 80
With Hold-open	SLS-2DAQ	×2400	(total door weight)



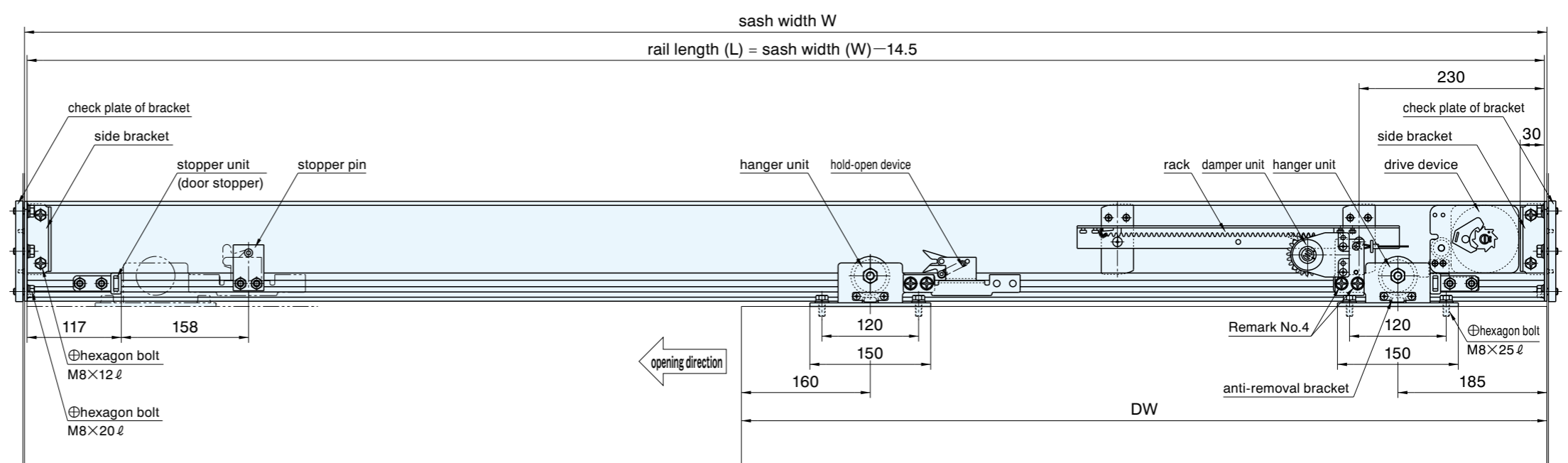
# SL-2BAQ WITH DRIVE DEVICE SINGLE FOR MOISTY PLACE



rightward



leftward



**Remark**

1. This drawing is SLS-2BAQ (w/h Hold-open devise)
2. Hold-open device is not included with SLS-2BAQ (w/o Hold-open device)
3. If the mohair and door contact too strongly, the door may not close, therefore, pay careful attention to installation.
4. When tightening the bolts, press the damper unit against the rack to install so that there is sufficient engagement.
5. Because the door center is deviated from the pulley hanging center, the door is pressed against the anti-vibration bracket and sliding resistance becomes larger. Therefore, make sure to use a guide roller.
6. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
7. ( ) dimensions are reference dimensions.

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2BAQ	700 - 1450	less than 80
With Hold-open	SLS-2BAQ	×2400	80

