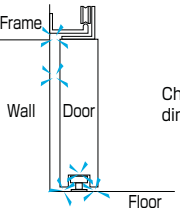


PRECAUTIONS

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.

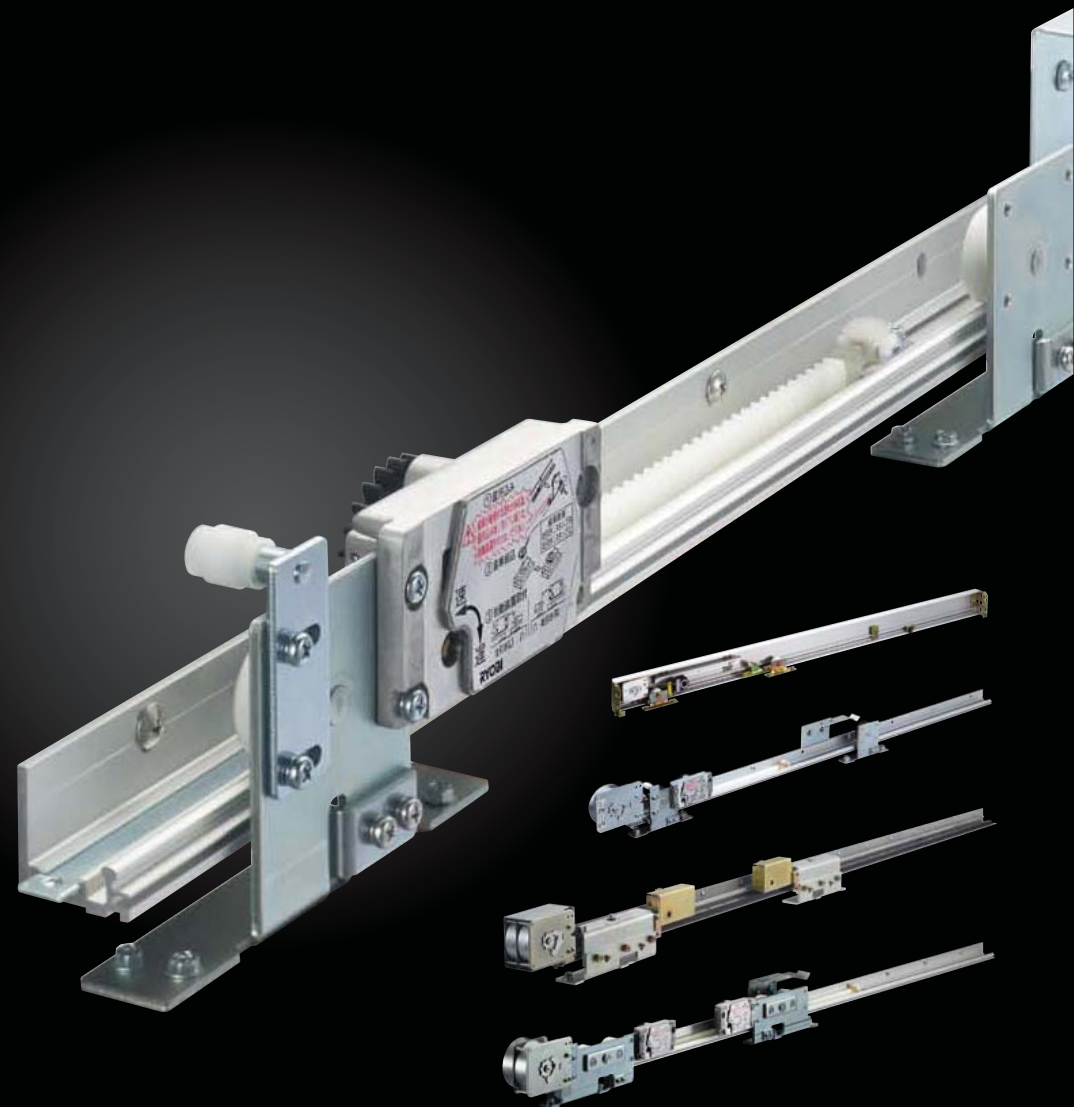
DISTRIBUTED BY

RYOBI RYOBI LIMITED

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

RYOBI®

SLIDING DOOR CLOSER SL SERIES



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	—	SLS-1KN30	—	600 - 1450 X 2400	10 - 30	22-25 44-45
			—	SLS-1K50	—		10 - 50	26-29 46-47
			—	SLS-2KN30	—		Less than 30	30-33 48-49
			—	SLS-2K50	—		Less than 50	34-37 50-51
	W/H DRIVE DEVICE	BI-PARTING	—	SLS-2KD60	—	600 - 1300 X 2400	Less than 60 (Total door weight)	38-39 52-53
		TELESCOPIA	—	SLS-2KW60	—	550 - 905 X 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	SL-1	SLS-1	SLM-1	600 - 1450 X 2400	10 - 80	58-59
			SL-2	SL2-2	SLM-2		Less than 80	60-61
		BI-PARTING	SL-2D	SLS-2D	SLM-2D	600 - 1300 X 2400	Less than 60 (Total door weight)	72-73
		TELESCOPIA	SL-2W	SLS-2W	SLM-2W	550 - 905 X 2400	Less than 60 (Total door weight)	74-77
	W/H DRIVE DEVICE	SINGLE	SL-2H150	SLS-2H150	—	900 - 2150 X 2400	Less than 150	62-63
			SL-2H200	SLS-2H200	—	1300 - 2150 X 2400	Less than 200	64-65
		TELESCOPIA	SL-2HW150	SLS-2HW150	—	800 - 1255 X 2400	Less than 150 (Total door weight)	78-81
			SL-2HG120	SLS-2HG120	—	900 - 1450 X 2400	Less than 120	66-67
		SINGLE	SL-2HG160	SLS-2HG160	—	900 - 1700 X 2400	Less than 160	68-69
			SL-2HG200	SLS-2HG200	—	1200 - 2000 X 2400	Less than 200	
			SL-2HG250	SLS-2HG250	—	1200 - 2550 X 2400	Less than 250	70-71
FOR ALUMINUM DOOR	W/H DRIVE DEVICE	SINGLE	SL-2A	SLS-2A	SLM-2A	700 - 1450 X 2400	Less than 50	82-83
		BI-PARTING	SL-2AD	SLS-2AD	SLM-2AD	600 - 1300 X 2400	Less than 80 (Total door weight)	86-87
		SINGLE	SL-2B	SLS-2B	SLM-2B	700 - 1450 X 2400	Less than 50	84-85
		BI-PARTING	SL-2BD	SLS-2BD	SLM-2BD	600 - 1300 X 2400	Less than 80 (Total door weight)	88-89
			SL-2BDX	SLS-2BDX	SLM-2BDX	700 - 1300 X 2400 (per a door leaf)	Less than 50 (per a door leaf)	90-91
FOR MOISTY PLACE	W/H DRIVE DEVICE	SINGLE	SL-2AQ	SLS-2AQ	—	600 - 1450 X 2400	Less than 80	92-93
		BI-PARTING	SL-2DAQ	SLS-2DAQ	—	600 - 1300 X 2400	Less than 80 (Total door weight)	94-95
		SINGLE	SL-2BAQ	SLS-2BAQ	—	700 - 1450 X 2400	Less than 80	96-97
		BI-PARTING	SL-2BDAQ	SLS-2BDAQ	—	600 - 1300 X 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	SLS-1KN30			○	△ OPTION	○		
	SLS-1K50			○	△ OPTION	○		
		SLS-2KN30 SLS-2K50		○	△ OPTION	○	○	○
FOR STEEL DOOR	SL-1		○	○	○			
		SL-2	○	○	○			
		SL-2H150	○	○		○		○
		SL-2H200	○	○		○		
		SL-2HG120	○	○		○		
		SL-2HG160	○	○		○		
		SL-2HG200	○	○		○		
		SL-2HG250	○	○		○		
FOR ALUMINUM DOOR		SL-2A	○	○	○	○	○	
		SL-2B	○	○	○	○	○	
FOR MOISTY PLACE		SL-2AQ	○	○		○	○	
		SL-2BAQ	○	○		○	○	

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	SLS-1KN30 SLS-1K50		○		250mm TO CLOSING POSITION	1300mm	1,000,000 CYCLES	2.5 / 6.0 3.0 / 8.0
		SLS-2KN30 SLS-2K50	○				500,00 CYCLES	2.5 / 6.0 2.5 / 10.5
			○				1,000,000 CYCLES	2.5 / 6.0 4.0 / 9.0
FOR STEEL DOOR	SL-1		○		ALL TRACK RANGE	2000mm	200,00 CYCLES	5.0 / 20.0 5.0 / 22.0
		SL-2	○					
		SL-2H150	○					
		SL-2H200	○					
		SL-2HG120	○			1300mm		6.0 / 23.0
		SL-2HG160	○			1550mm		6.0 / 28.0
		SL-2HG200	○			1850mm		6.0 / 32.0
		SL-2HG250	○			2400mm		6.0 / 37.0
FOR ALUMINUM DOOR		SL-2A	○		250mm TO CLOSING POSITION	1300mm	1,000,000 CYCLES	
FOR MOISTY PLACE		SL-2B	○					4.0 / 9.0
		SL-2AQ		○				
		SL-2BAQ		○				5.0 / 12.0

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.

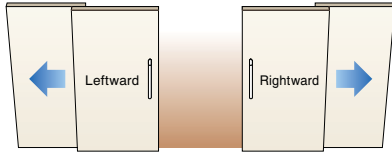
MODEL NUMBER

S L S - 2 B D A Q - R	
<ul style="list-style-type: none"> • 30 : 30KG • 50 : 50KG • 120 : 120KG • 150 : 150KG • 160 : 160KG • 200 : 200KG • 250 : 250KG • AQ : MOISTY PLACE 	<ul style="list-style-type: none"> • NO : SINGLE • D : BI-PARTING • W : TELESCOPIA
<ul style="list-style-type: none"> • NO : ALUMINUM DOOR • K,KN : WOOD DOOR • H,HG : STEEL DOOR • A,B : ALUMINUM FRAME 	<ul style="list-style-type: none"> • 1 : SLOPE TYPE • 2 : W/H DRIVE DEVICE
<ul style="list-style-type: none"> • NO : W/O HOLD-OPEN • S : W/H HOLD-OPEN • M : W/H MULTI HOLD-OPEN 	<ul style="list-style-type: none"> • SERIES : SLIDING DOOR

FEATURES

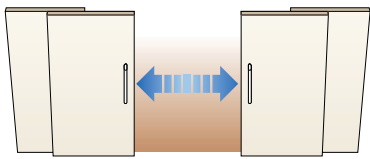
Various opening and closing forms

Single



Bi-parting

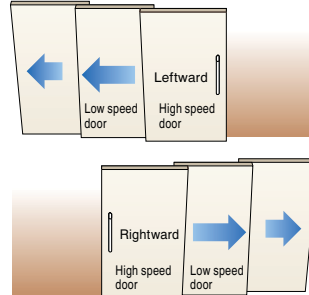
When large opening is required.
Both doors open together left and right to ensure large opening.



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.

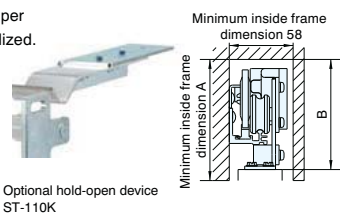


Durability

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.

Slideman 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.



Model No.	Door size DW (mm)	Minimum inside frame dimension A (mm)	Inside dimension from door upper surface B (mm)
SLS-1KN30	600~1200	120	110
	1201~1450	125	115
SLS-1K50	600~1200	130	120
	1201~1450	135	125
SLS-2KN30	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

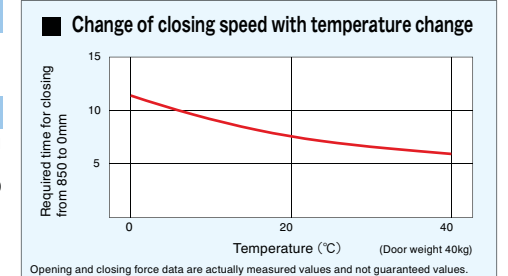
Damper unit excellent in temperature resistance performance

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.)

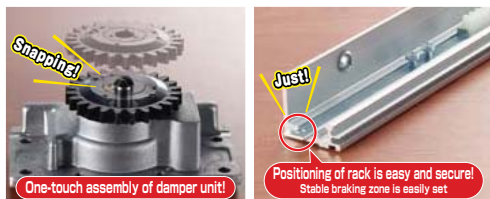
Excellent as a bath and shower room door.
(Do not use in places such as a sauna room, hot spring, etc.)



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.



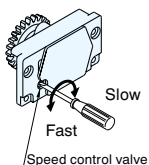
Sliderman, for steel sash, aluminum sash compatible specifications

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



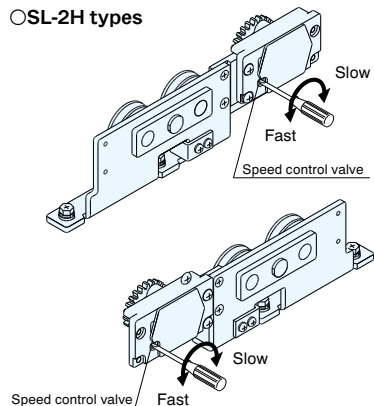
For heavy steel door SL-2H type

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.

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. Adjust the speed for both units.

○SL-2H types



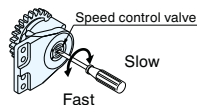
Bath and shower room door compatible specifications AQ type

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



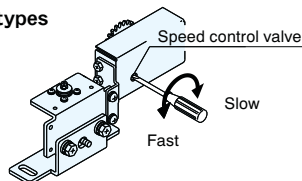
Steel rail specifications for heavy steel door SL-2HG type

Controls speed of almost all zones to a stable speed.

Adjust the speed control valve for the damper unit with a flat-blade screwdriver.

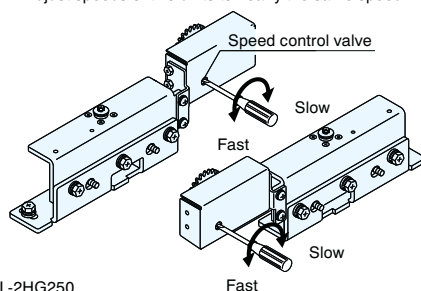
Open and close the door a few times to check braking.

○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.

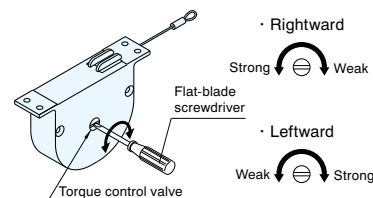


SL-2HG250

ADJUSTMENT METHOD

Torque Adjustment

Sliderman (SLS-2K type)

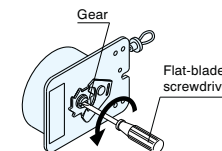


SL-2, 2A, 2B, AQ type

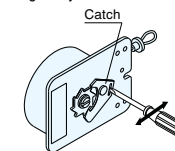
• Torque up

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.



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

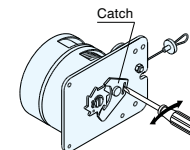
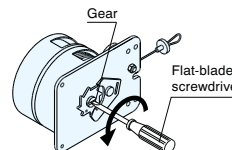
• Torque up

Turn the gear counterclockwise. The torque can be further controlled up to eight turns (9.5 turns engagement) compared with pre-shipment.

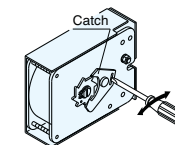
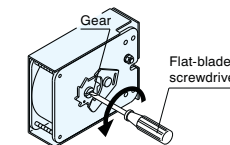
*Excessive engagement may cause a failure.

• Torque Down

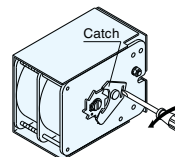
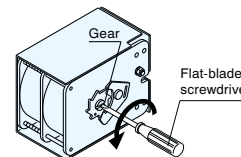
Shake the catch little by little, then the gear returns one tooth at a time and the torque goes down. If the minimum value is unknown, return to zero turns once and engage the gear by 1.5 turns.



○SL-2HG120 type



○SL-2HG160, 200, 250 type

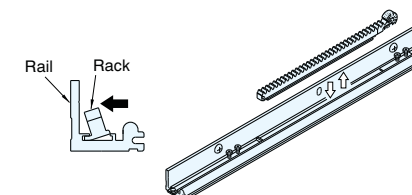


Rack removal method (PAT)

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.

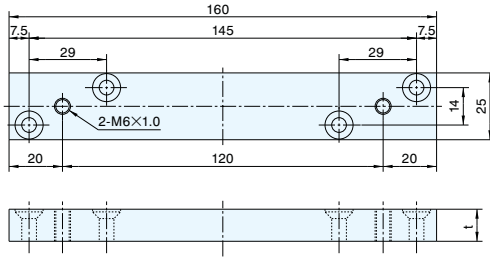
(Neither the slide plate nor the L-shaped slide plate can be removed from above.)

- (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.



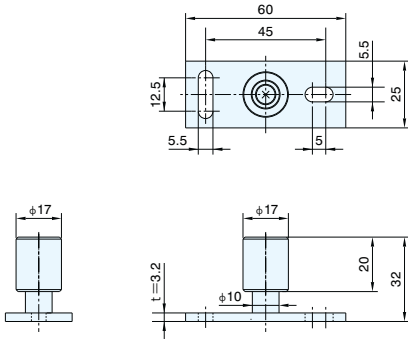
OPTION PARTS

Gear fixing bracket for wood door 1 set = 1 door (2 pcs.)

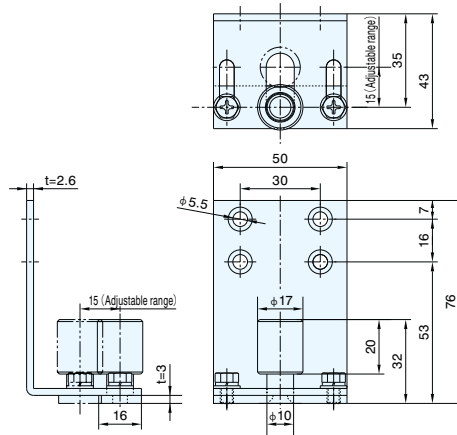


Specification	Model	Thickness "t"	
		Door head side	Door tail side
Slope	SLS-1K50	6	12
	SLS-2K50	6	
W/H Drive device	SLS-2KD60	6	
	SLS-2KW60	6	

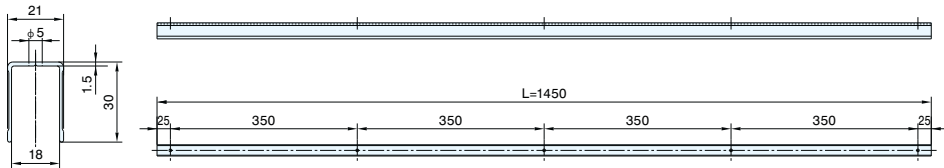
Guide roller (wood door) GT-17



Telescopia guide roller (wood door) LGT-17

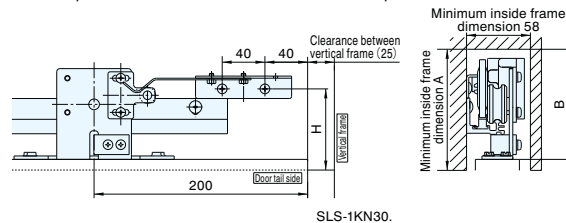


Guide rail for wood door GRA-17



Hold-open device (ST-110K)

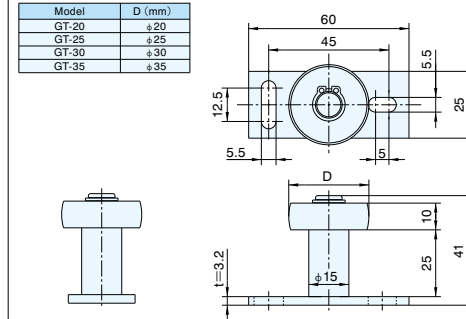
- Hold-open device suitable for frame with small aspect dimensions



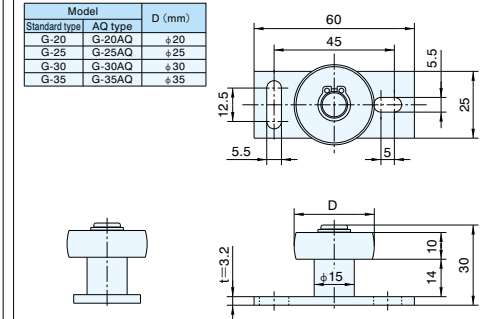
Model	Door size DW (mm)	Minimum inside frame dimension A (mm)	Inside dimension from door upper surface B (mm)	H (mm)
SLS-1KN30	600~1200	120	110	H=76+ (Opening stroke+DW-230) ×3.5/300
	1201~1450	125	115	
SLS-1K50	600~1200	130	120	H=82+ (Opening stroke+DW-230) ×3.5/300
	1201~1450	135	125	
SLS-2KN30	600~1450	110	100	76
SLS-2K50	600~1450	120	110	82

OPTION PARTS

Guide roller (slope type)

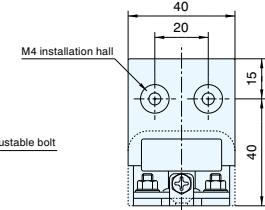
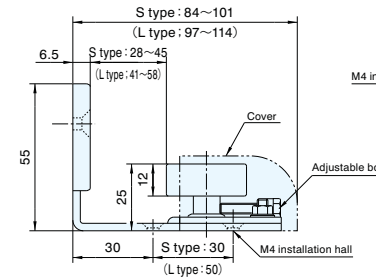


Guide roller (drive device)



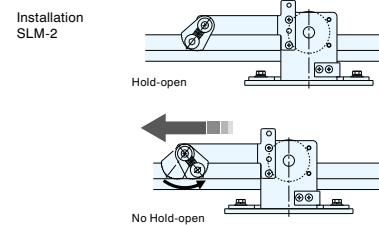
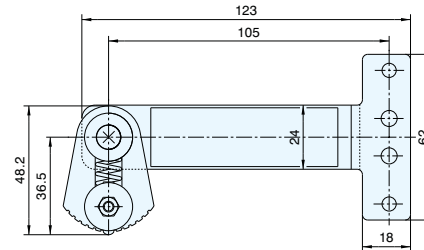
Floor guide

Size	Door thickness
S type	28~45
L type	42~59

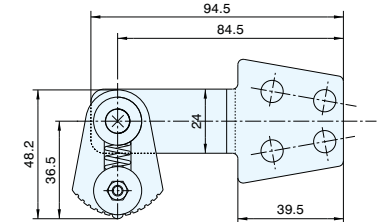


Multi hold-open

MHO-2



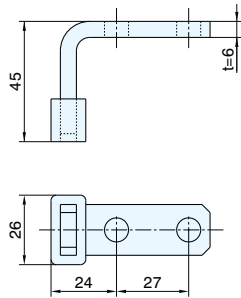
MHO-2-200 (Aluminum sash)



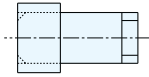
- The door stops when stopping the door once at a place where you want to stop the door after opening the door and leaving your hand as it is. Slightly press the door in the closing direction, then the stop is released.
- It is possible to retrofit to an existing SL-1, 2 series. (Impossible to retrofit to the SL-2H type and 2HG type, AQ type.)
- It is also possible to adjust the holding force by adjusting the installation angle from the rail.
- Avoid using in dusty and damp places.

OPTION PARTS

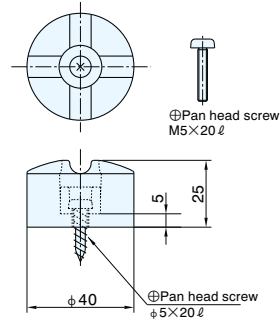
Door stopper (T-01K)



Model	Installation screw
T-01K	⌀Truss head screw ⌀4.5×20 ℓ Washer ⌀5.1×⌀18 t=1.6
T-01	⌀Hexagon bolt M8×20 ℓ



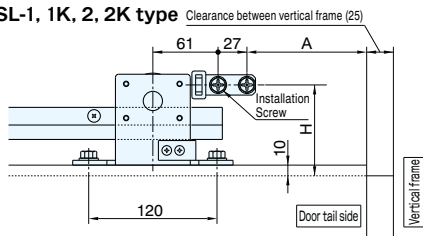
Shock absorbed door stopper (TOA-40)



Installation door stopper (T-01K/T-01)

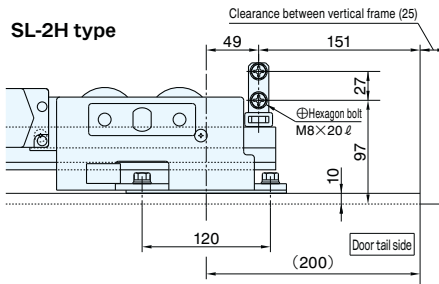
●Door stopper mounting dimensions on door tail side at fully open position

SL-1, 1K, 2, 2K type

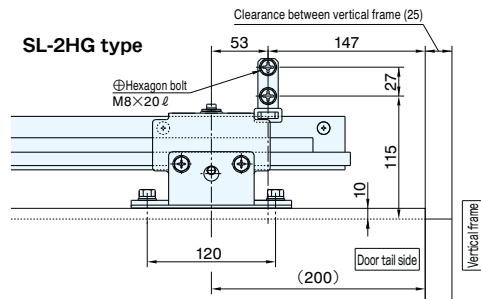


Sliding door closer	Model	Door size DW(mm)	Installation dimension		
			A	H	Installation screw
SL-1KN30 SL-1K50 SL-2KN30 SL-2K50	T-01K	~ 1000	112	100	⌀Truss head screw ⌀4.5×20 ℓ
		1001 ~ 1350		108	Washer ⌀5.1×⌀18 t=1.6
		1351 ~ 1450	212	85	
		~ 1350	112		
SL-1 SL-2	T-01	~ 1000	112	100	⌀Hexagon bolt M8×20 ℓ
		1001 ~ 1450		108	
		~ 1450		85	

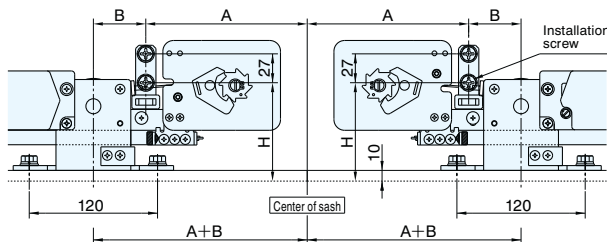
SL-2H type



SL-2HG type



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

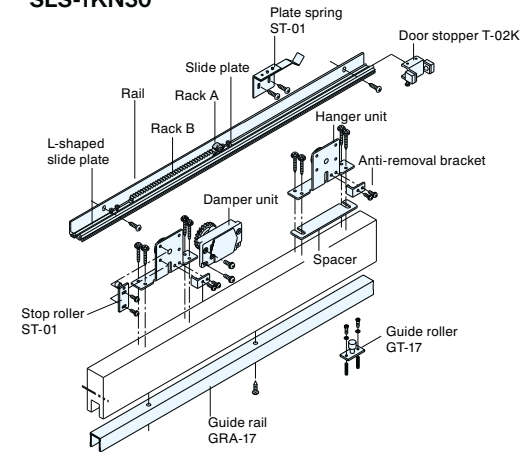


Sliding door closer	Model	Installation dimension		
		A	B	H
SL-1KN30 SL-1K50 SL-2K50	T-01K Installation screw ⌀Truss head screw ⌀4.5×20 ℓ (with washer)	151	49	92
SL-1 SL-2	T-01 Installation screw ⌀Hexagon bolt M8×20 ℓ			92
SL-2H type				97
SL-2HG type		167	53	115
SL-2KW60 SL-2W SL-2HW type		161	49	205

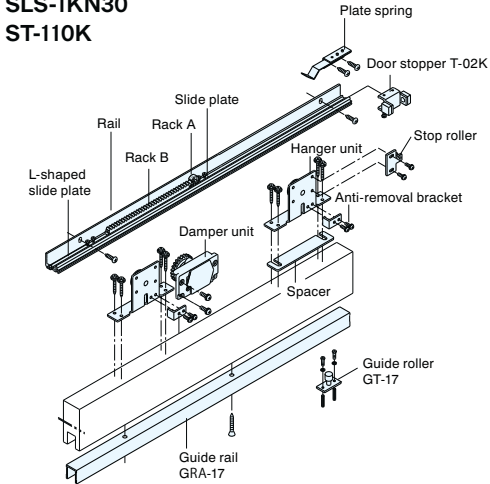
PARTS COMPONENTS

This is rightward with hold-open device

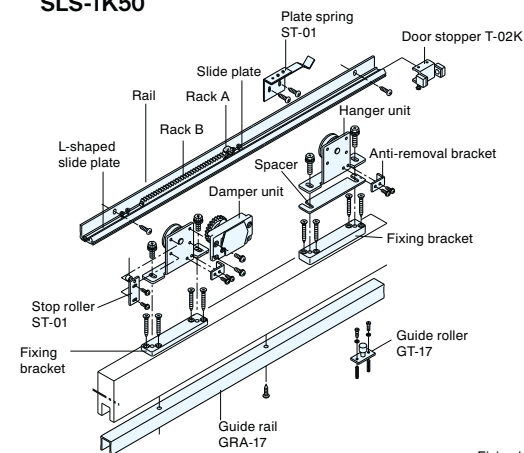
SLS-1KN30



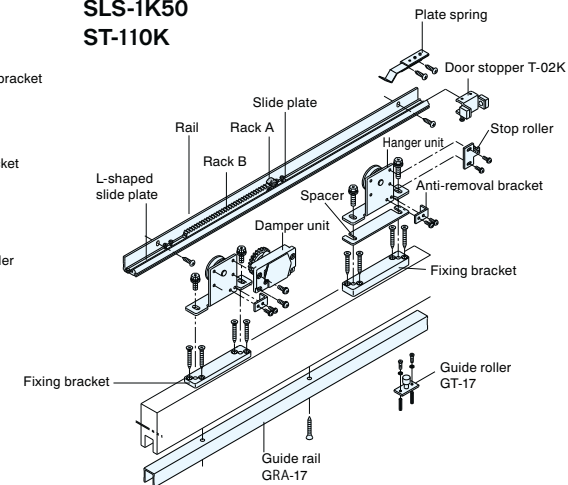
SLS-1KN30 ST-110K



SLS-1K50



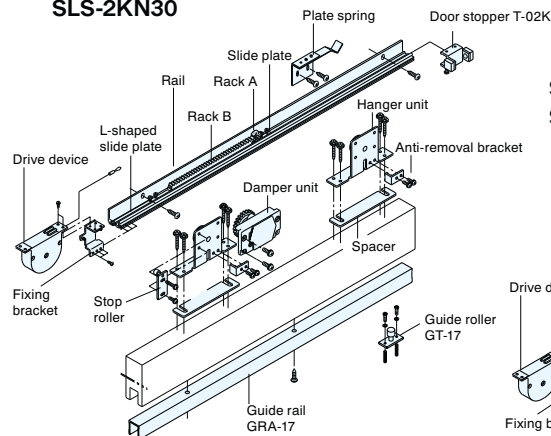
SLS-1K50 ST-110K



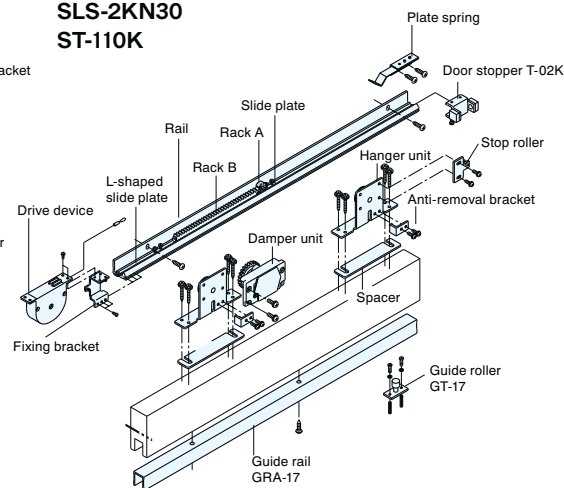
PARTS COMPONENTS

This is rightward with hold-open device

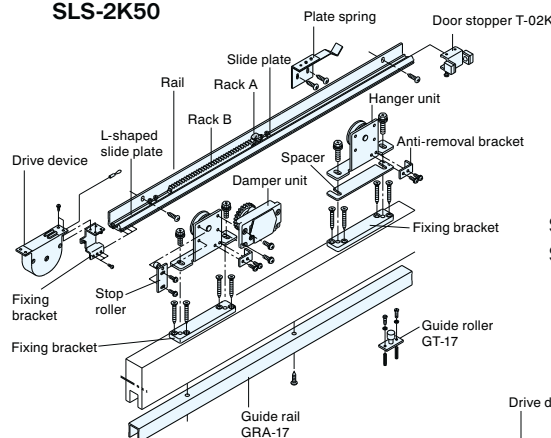
SLS-2KN30



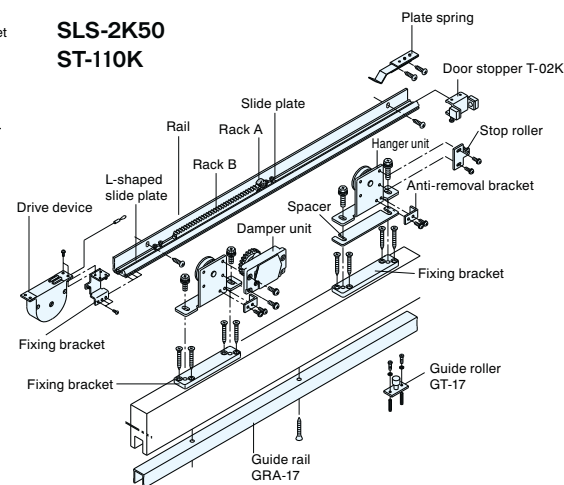
SLS-2KN30 ST-110K



SLS-2K50



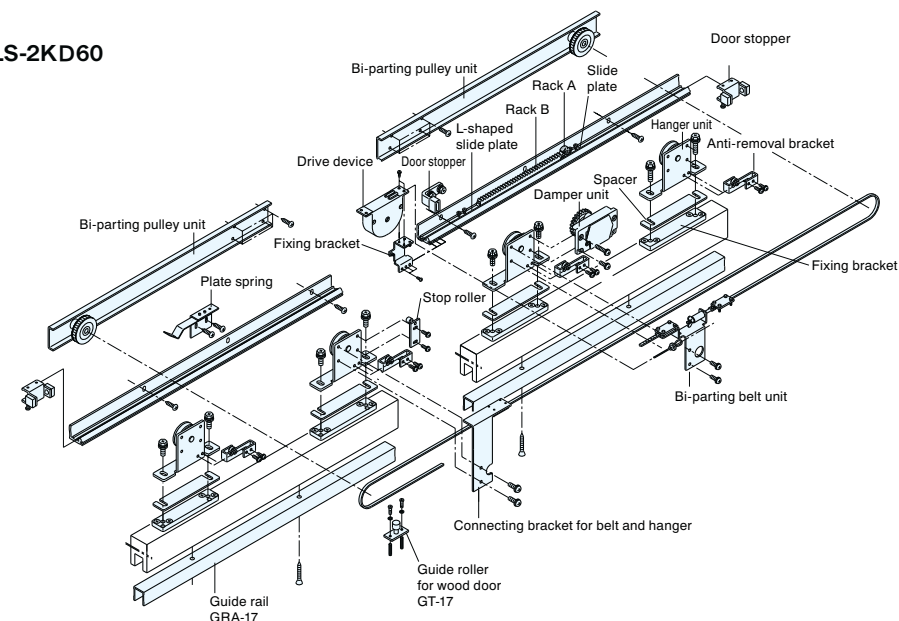
SLS-2K50 ST-110K



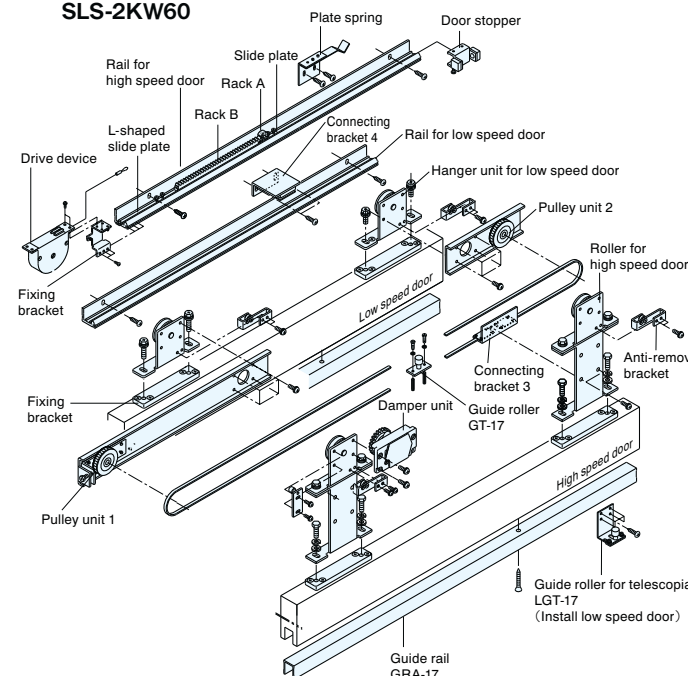
PARTS COMPONENTS

This is rightward with hold-open device

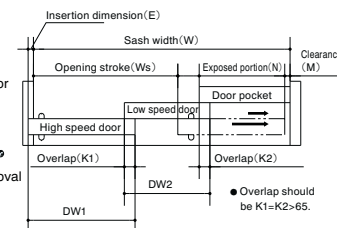
SLS-2KD60



SLS-2KW60



【Telescopia effective opening】



Dimensions required to be specified

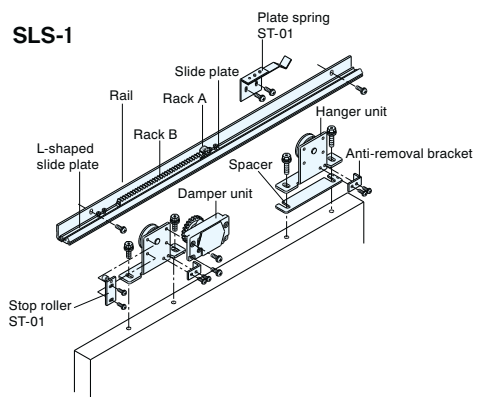
- Sash width (W)
- Exposed portion (N)
- Overlap (K1) and (K2)
- Insertion dimension (E)
- Clearance between door tail and vertical frame when door is fully open (M)

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

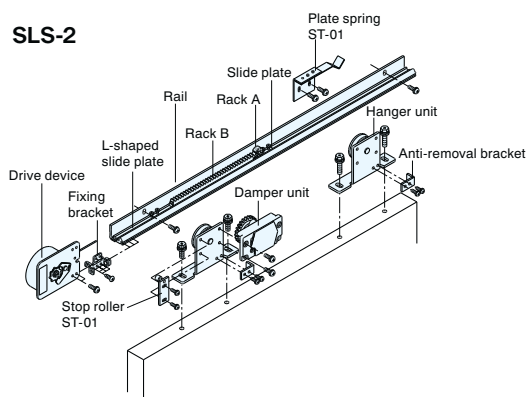
$$DW2 = (E + W - N + K1 + K2 - M) / 3$$

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

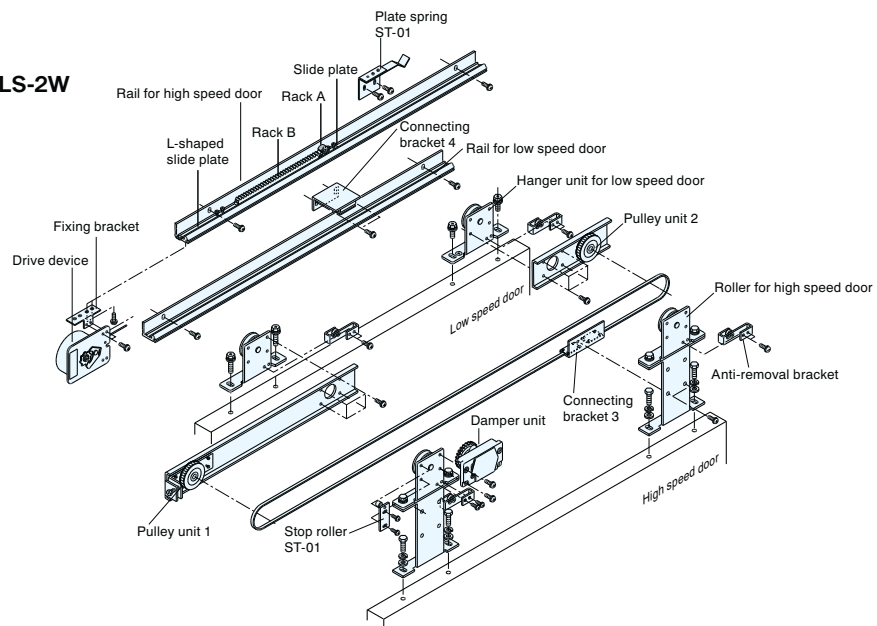
SLS-1



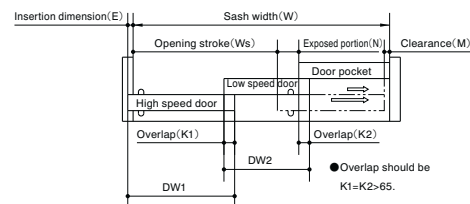
SLS-2



SLS-2W



【Telescopia effective opening】



Dimensions required to be specified

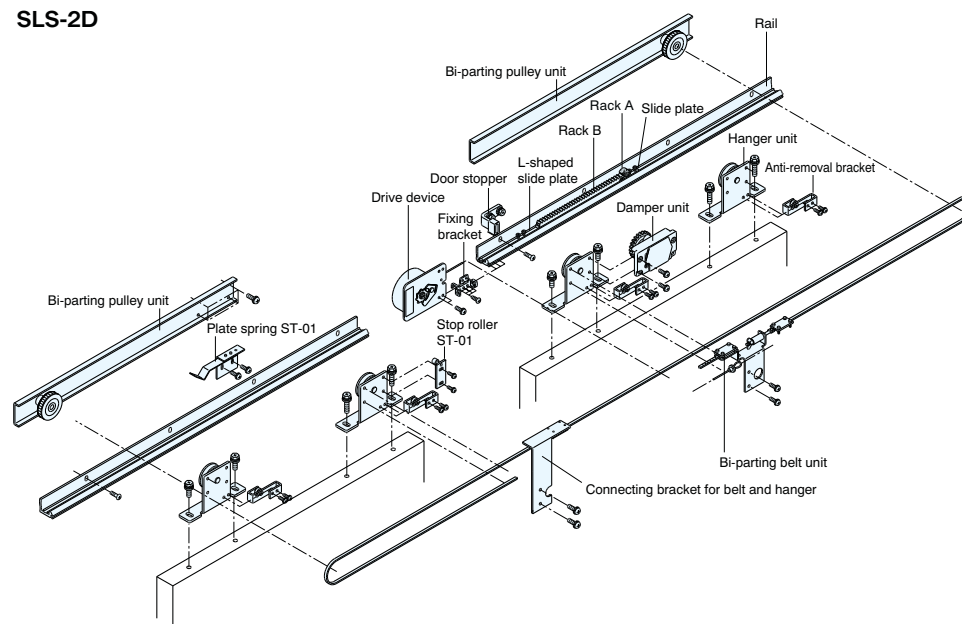
- Sash width(W)
- Exposed portion(N)
- Overlap (K1) and (K2)
- Insertion dimension(E)
- Clearance between door tail and vertical frame when door is fully open(M)

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

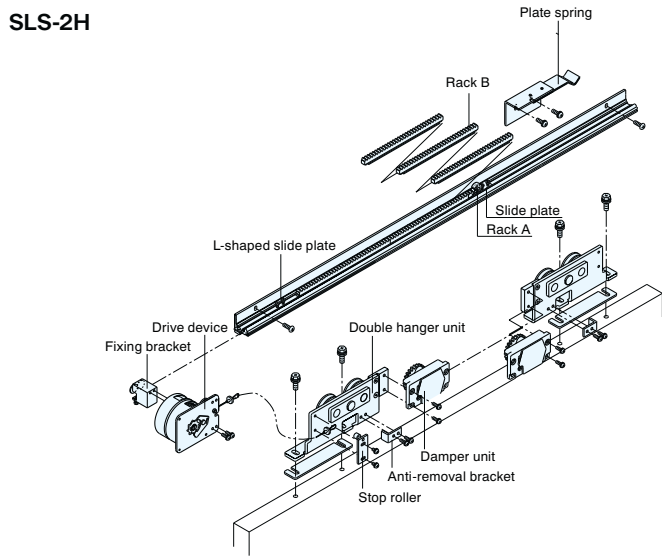
$$DW2 = (E + W - N + K1 + K2 - M) / 3$$

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

SLS-2D

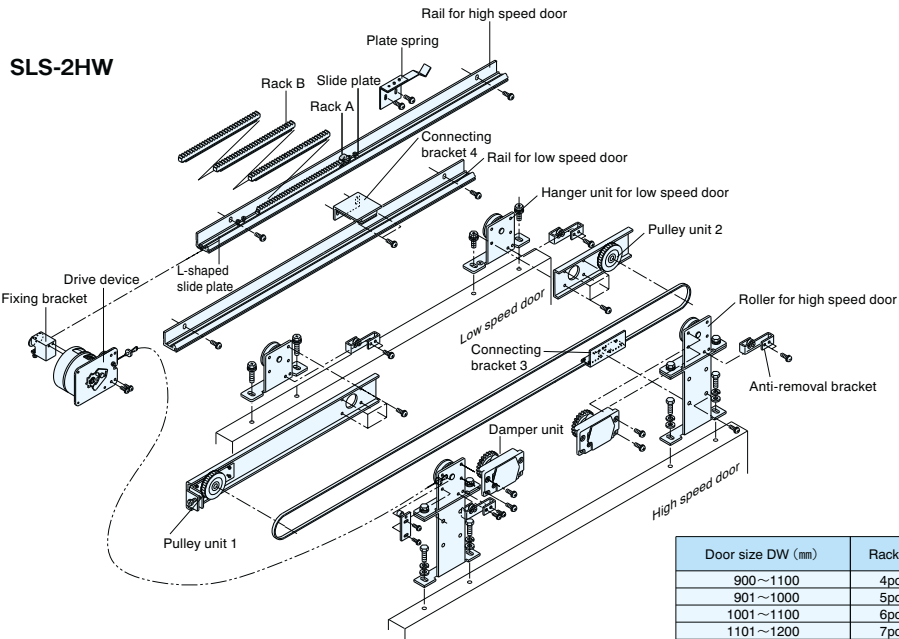


SLS-2H



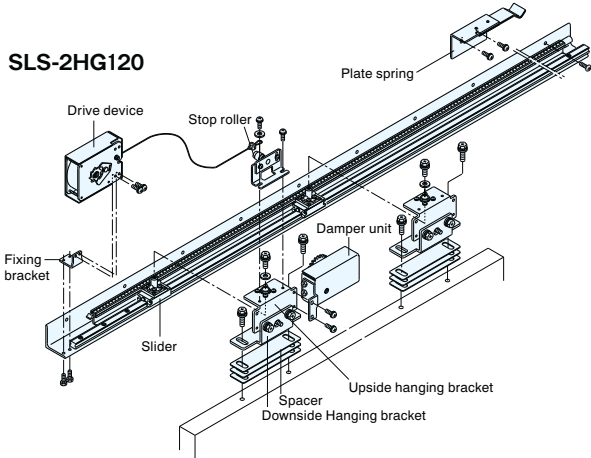
Door size DW (mm)	Rack B
900~1100	4pcs.
1101~1300	5pcs.
1301~1500	6pcs.
1501~1800	7pcs.
1801~2150	8pcs.

SLS-2HW

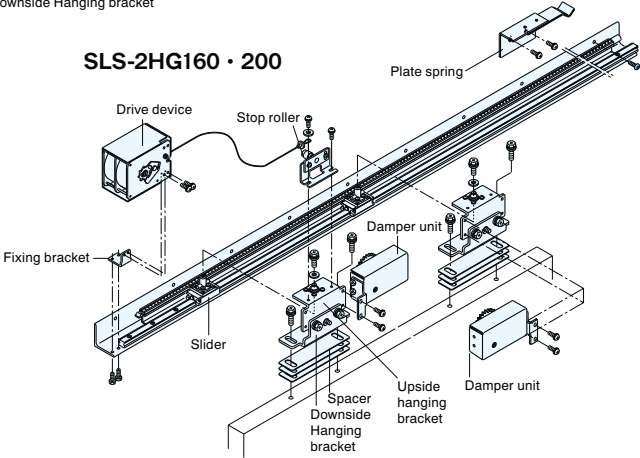


Door size DW (mm)	Rack B
900~1100	4pcs.
901~1000	5pcs.
1001~1100	6pcs.
1101~1200	7pcs.
1201~1255	8pcs.

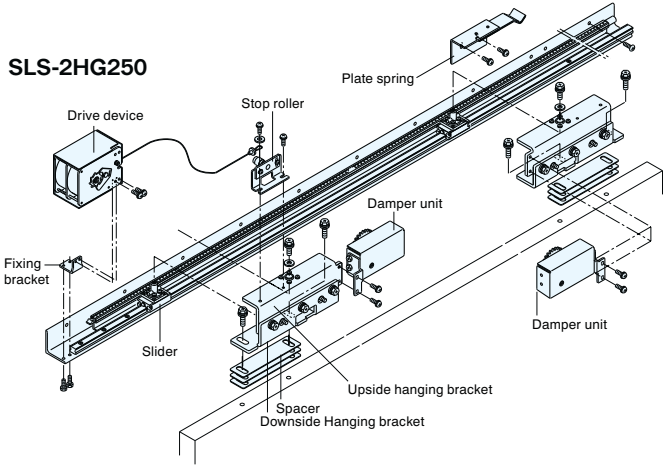
SLS-2HG120



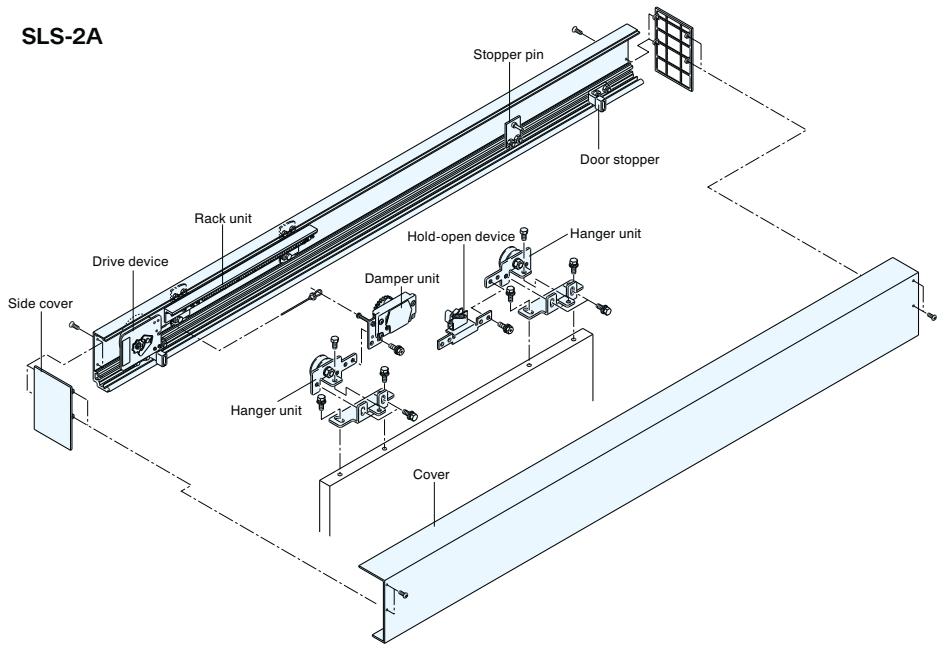
SLS-2HG160・200



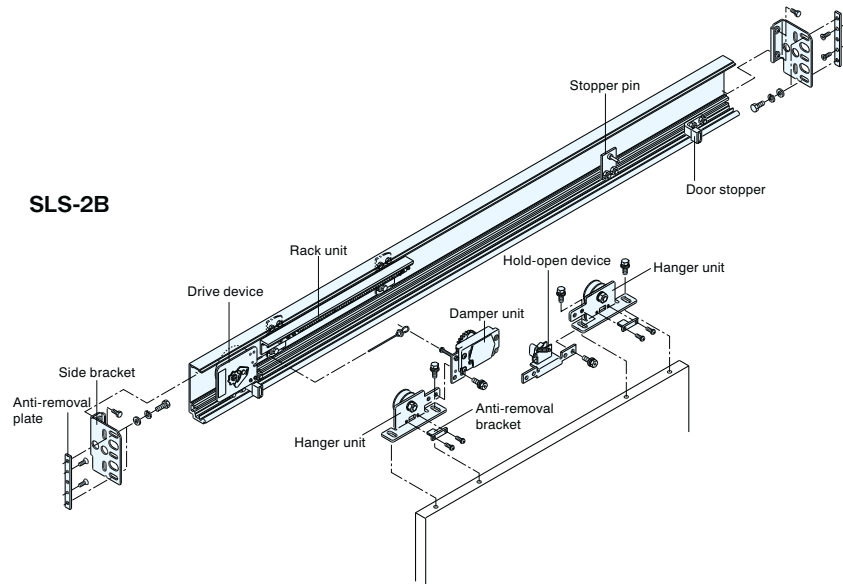
SLS-2HG250



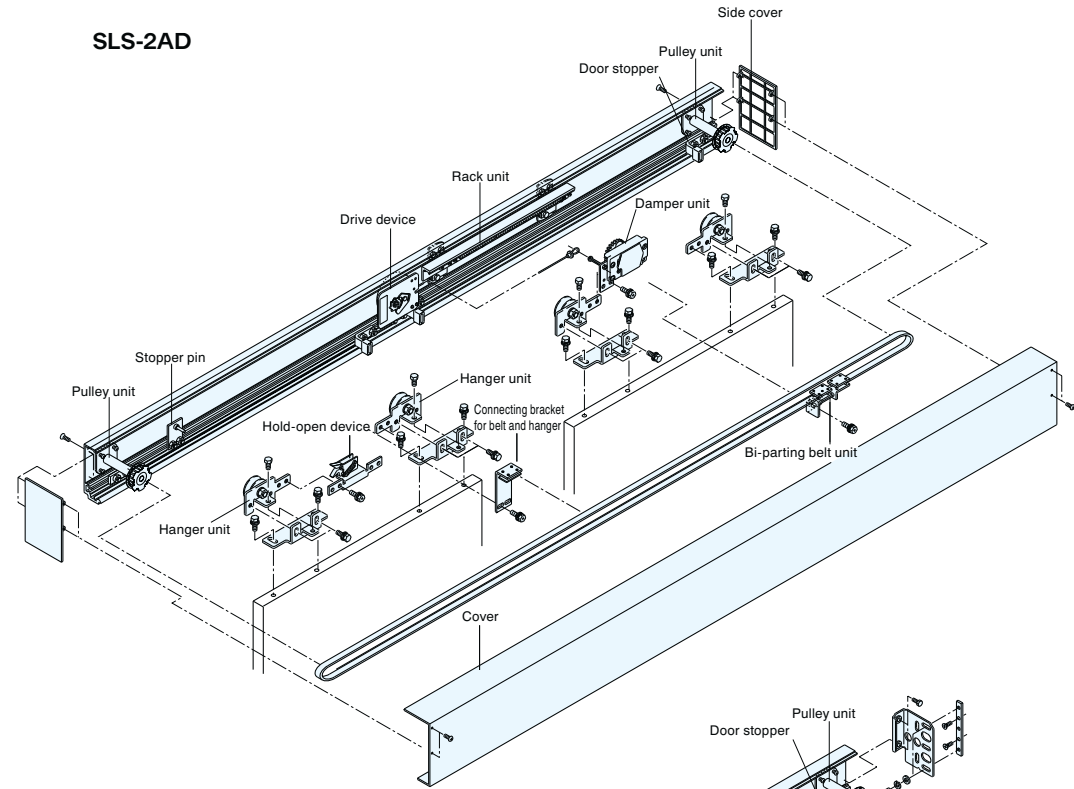
SLS-2A



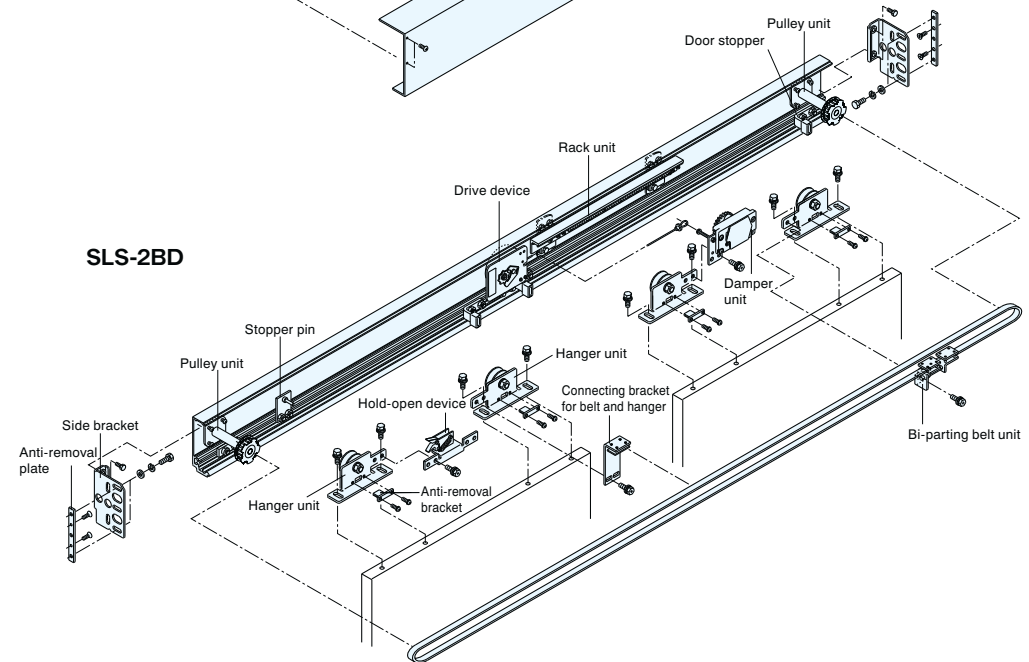
SLS-2B



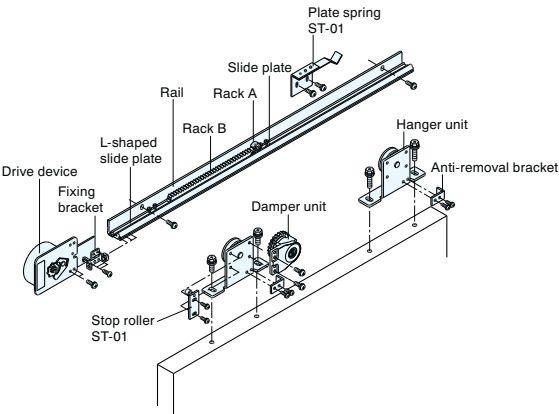
SLS-2AD



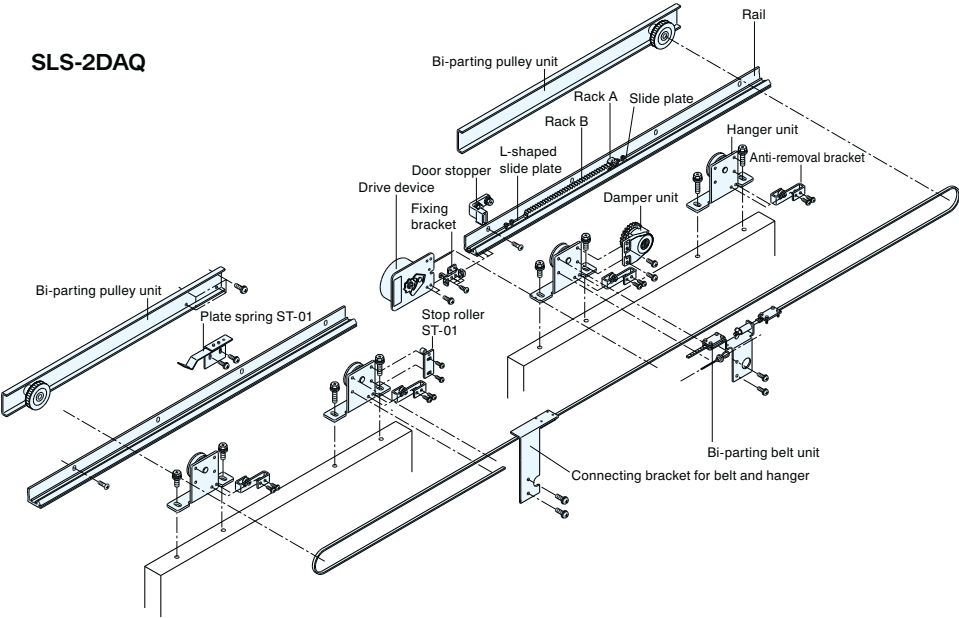
SLS-2BD



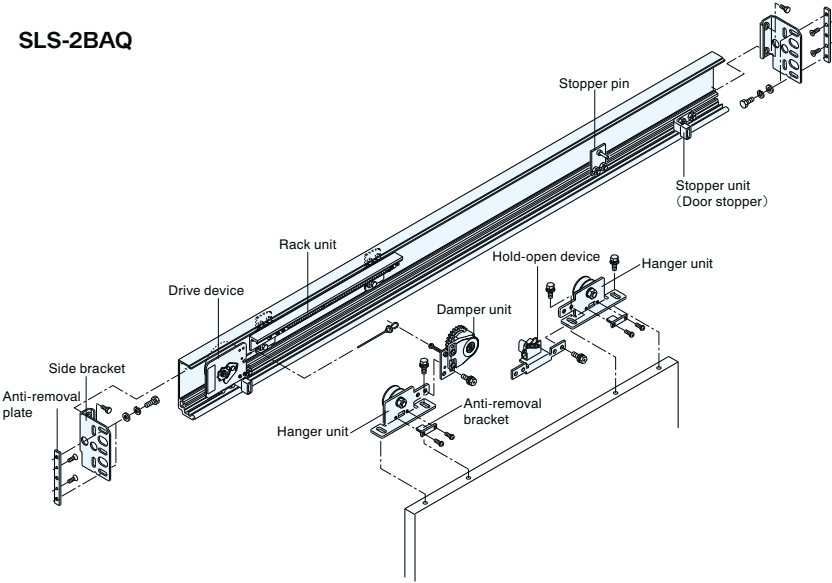
SLS-2AQ



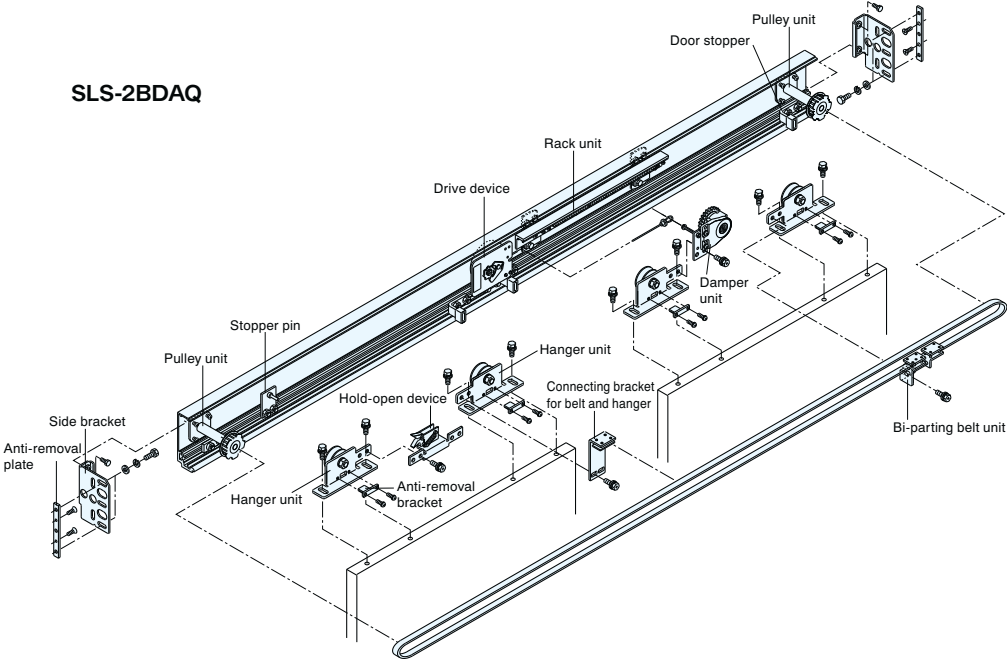
SLS-2DAQ



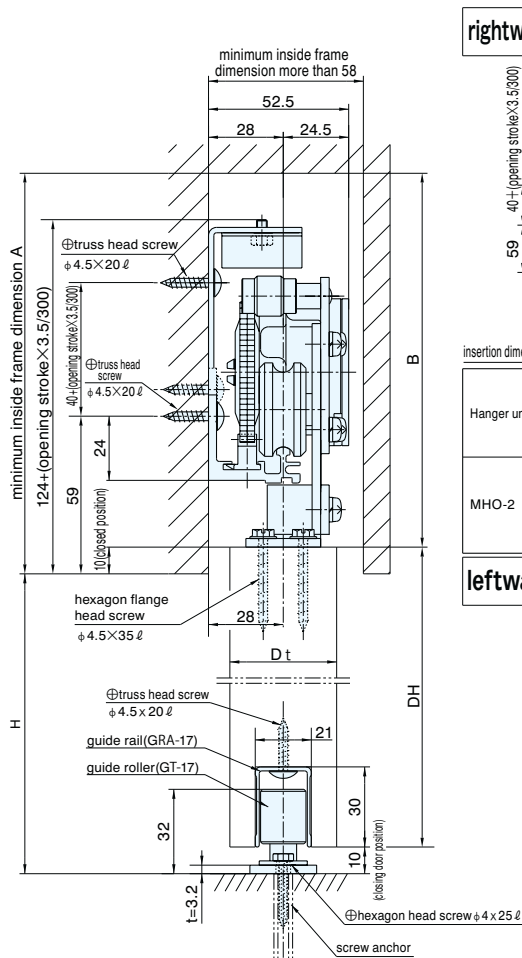
SLS-2BAQ



SLS-2BDAQ



SLS-1KN30 SLOPE TYPE SINGLE OPENING FOR WOOD DOOR



Hole pattern on inside view

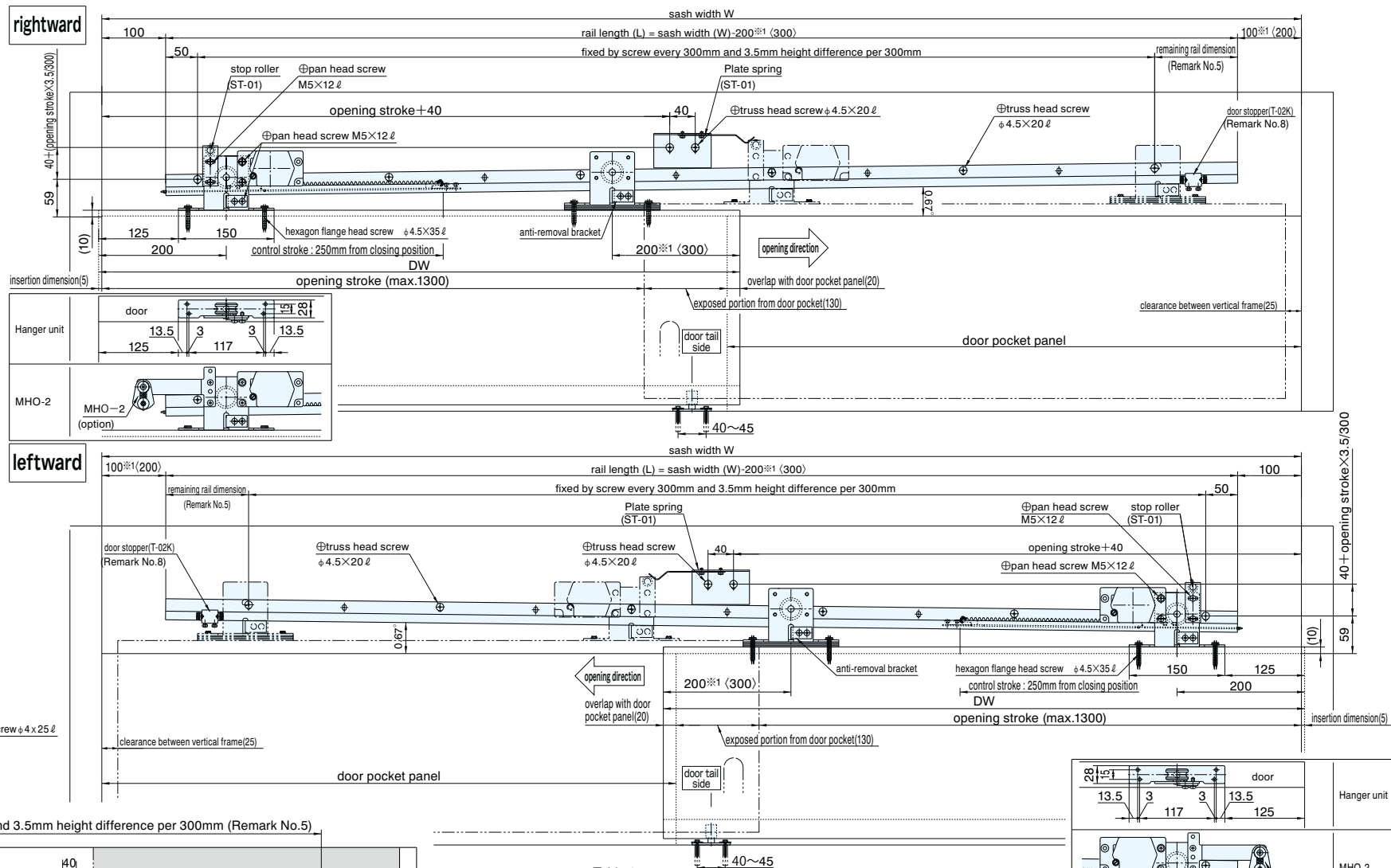
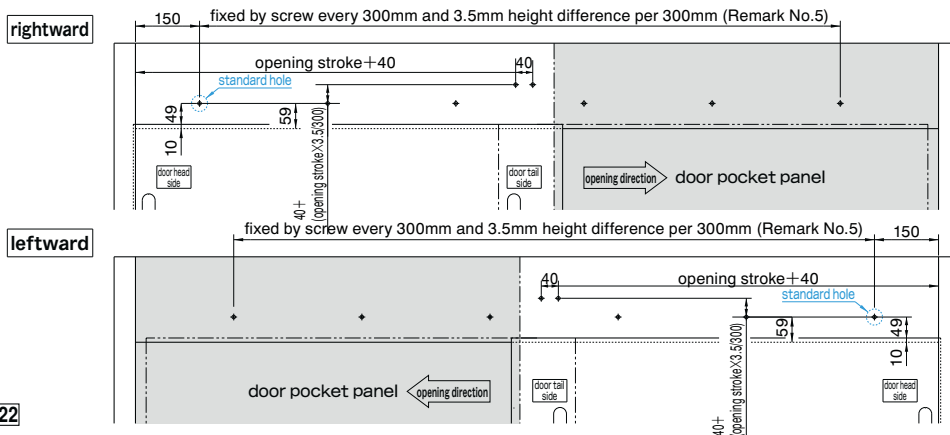


Table 1

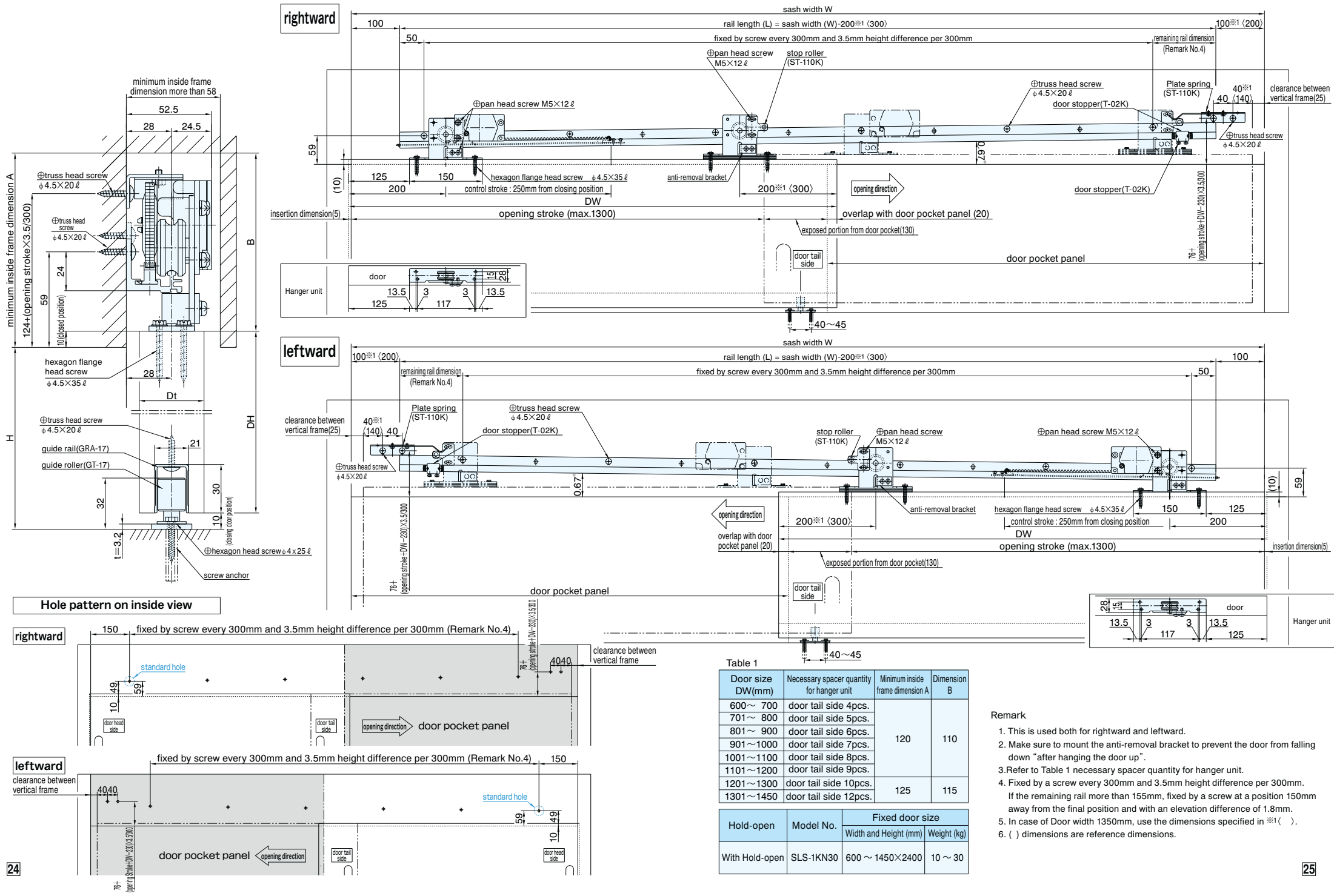
Door size DW(mm)	Necessary spacer quantity for hanger unit	Minimum inside frame dimension A	Dimension B
600 ~ 700	door tail side 4pcs.	140	130
701 ~ 800	door tail side 5pcs.		
801 ~ 900	door tail side 6pcs.		
901 ~ 1000	door tail side 7pcs.		
1001 ~ 1100	door tail side 8pcs.		
1101 ~ 1200	door tail side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

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
With Hold-open	SLS-1KN30	600 ~ 1450×2400	10 ~ 30

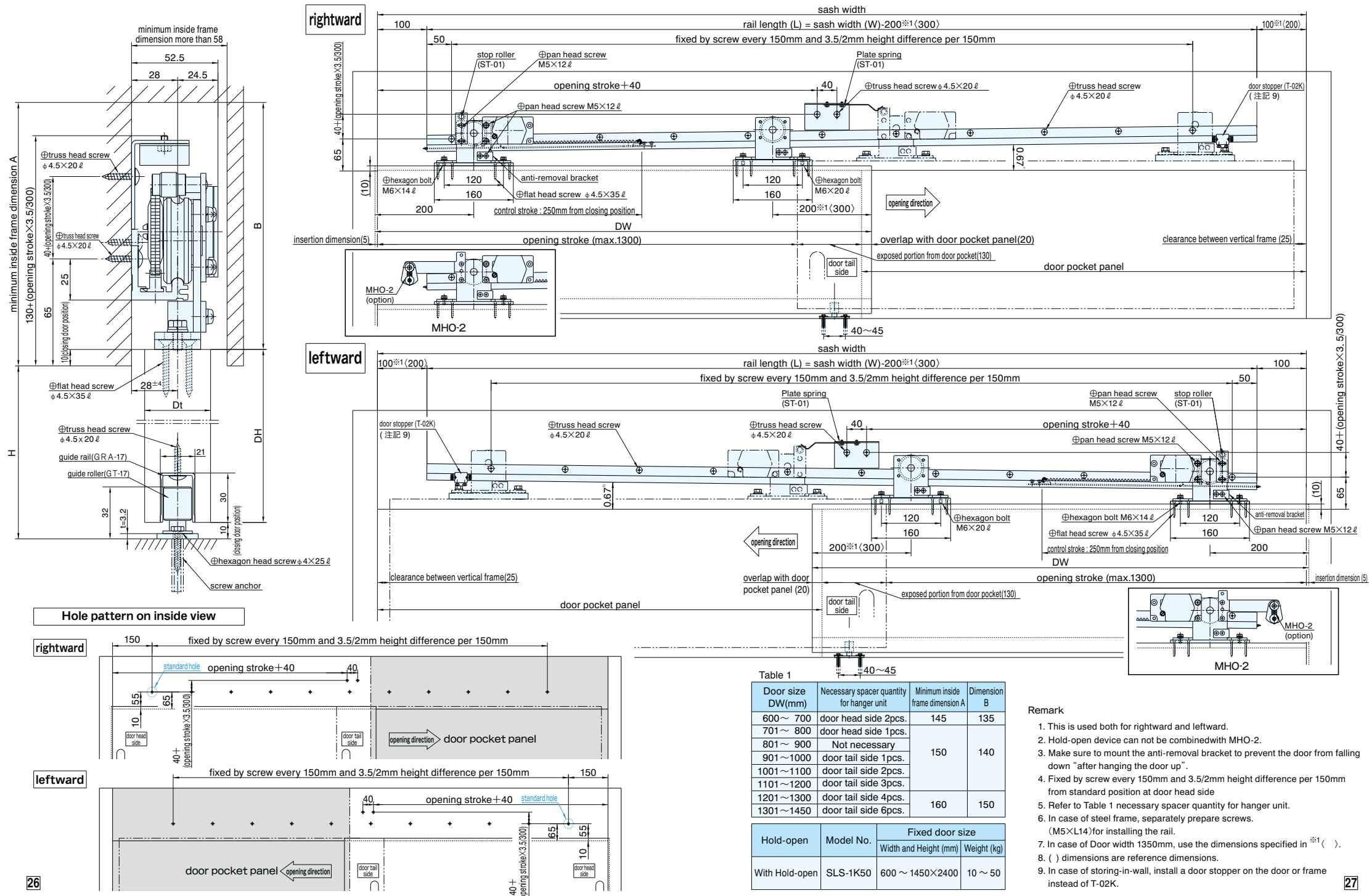
Remark

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-ravel bracket to prevent the door from falling down "after hanging the door up".
4. Refer to Table 1 necessary spacer quantity for hanger unit.
5. 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.
6. In case of Door width 1350mm, use the dimensions specified in ^{※1}().
7. () dimensions are reference dimensions.
8. In case of storing-in-wall, install a door stopper on the door or frame instead of T-02K.

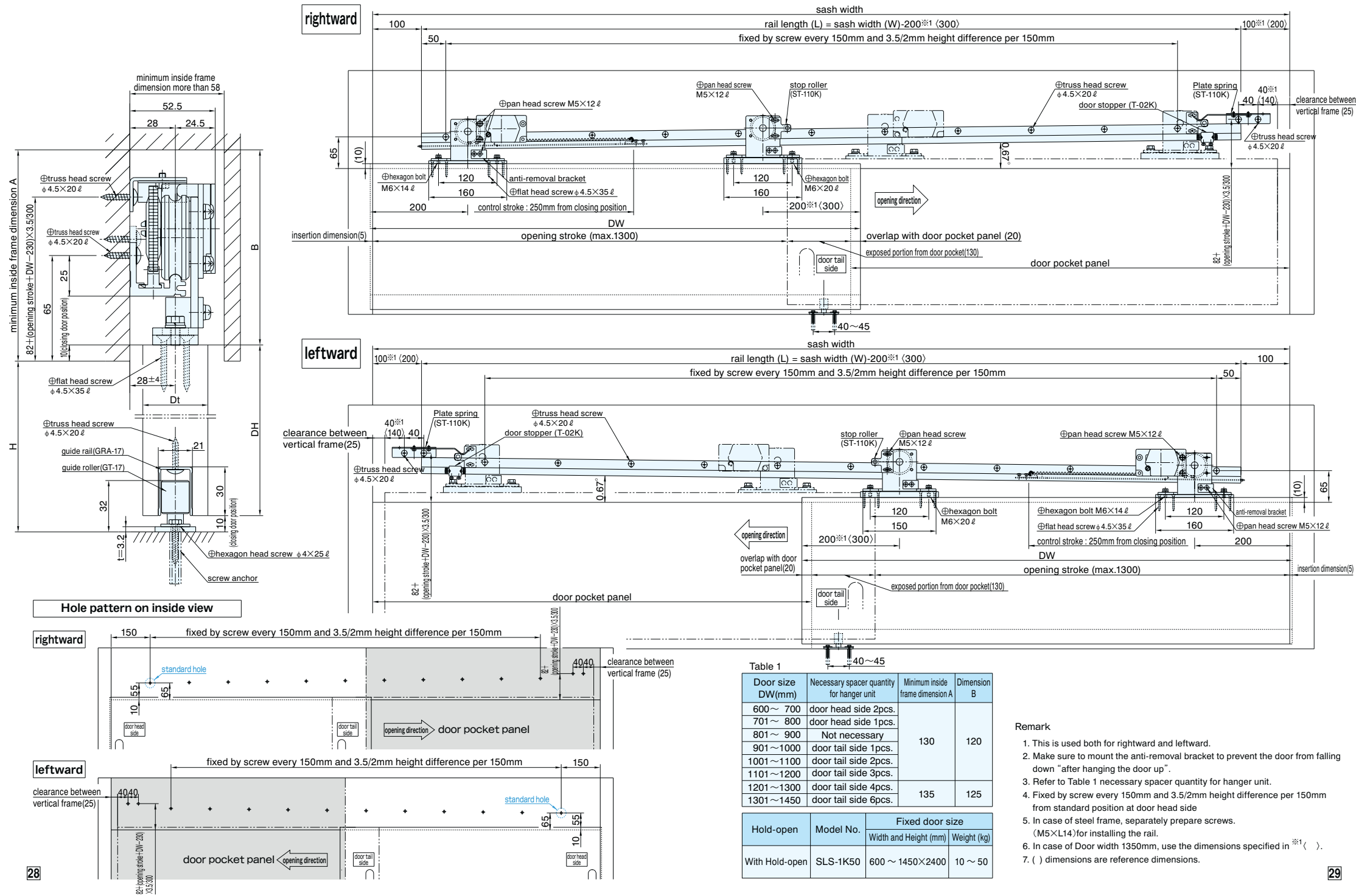
SLS-1KN30 ST110K (OPTION) SLOPE TYPE SINGLE OPENING FOR WOOD DOOR



SLS-1K50 SLOPE TYPE SINGLE OPENING FOR WOOD DOOR

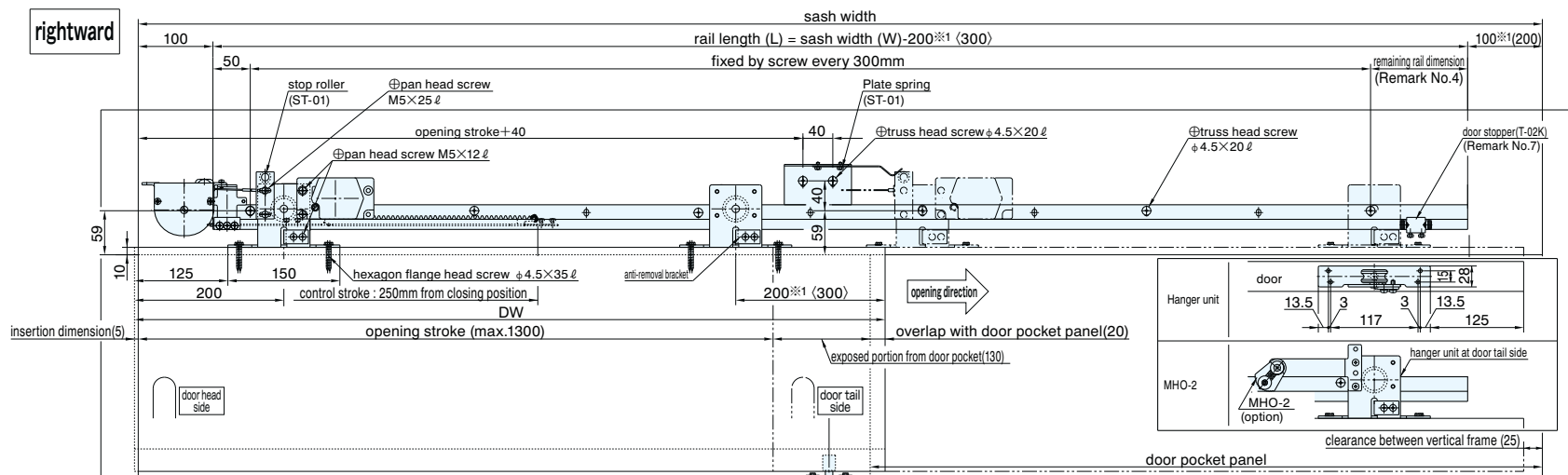


SLS-1K50 ST110K (OPTION) SLOPE TYPE SINGLE OPENING FOR WOOD DOOR

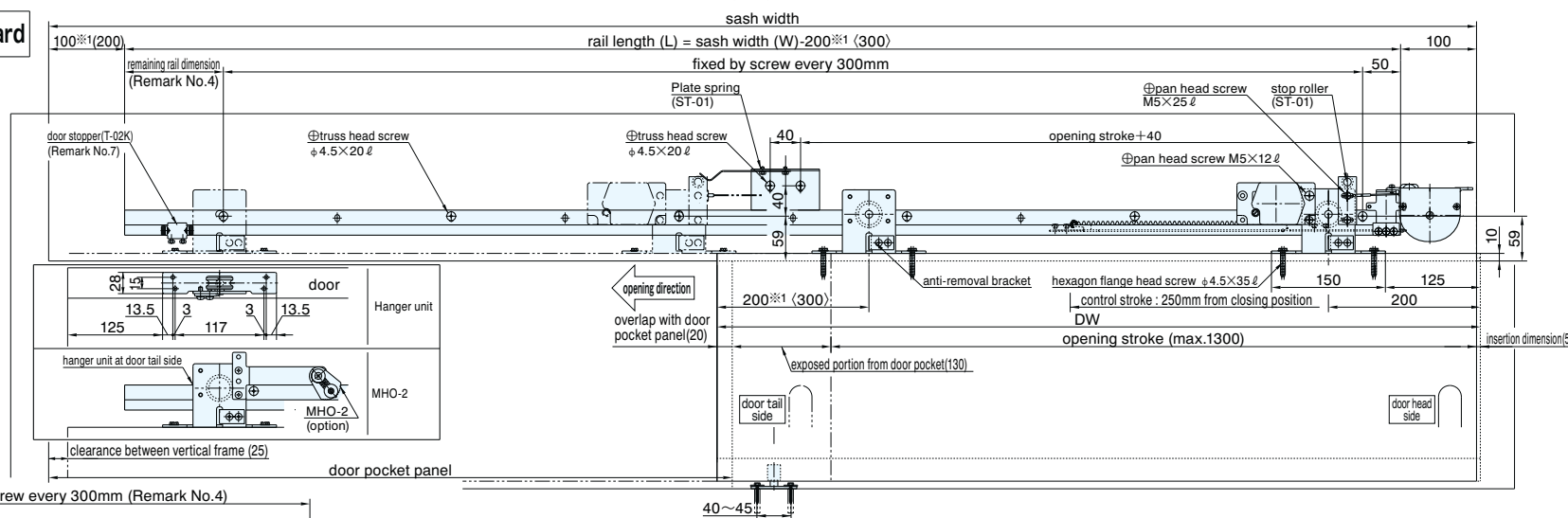


SLS-2KN30 WITH DRIVE DEVICE SINGLE OPENING FOR WOOD DOOR

rightward

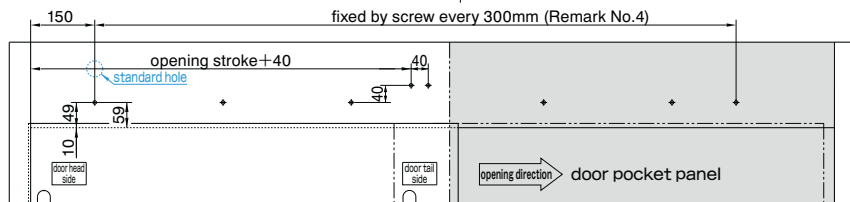


leftward

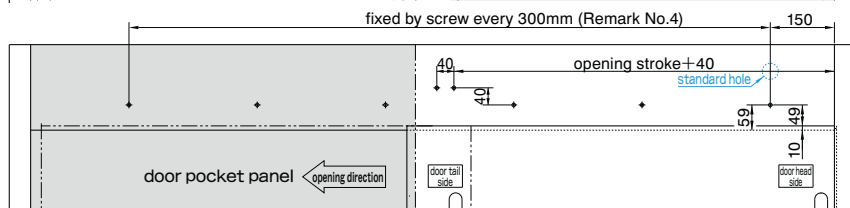


Hole pattern on inside view

rightward



leftward

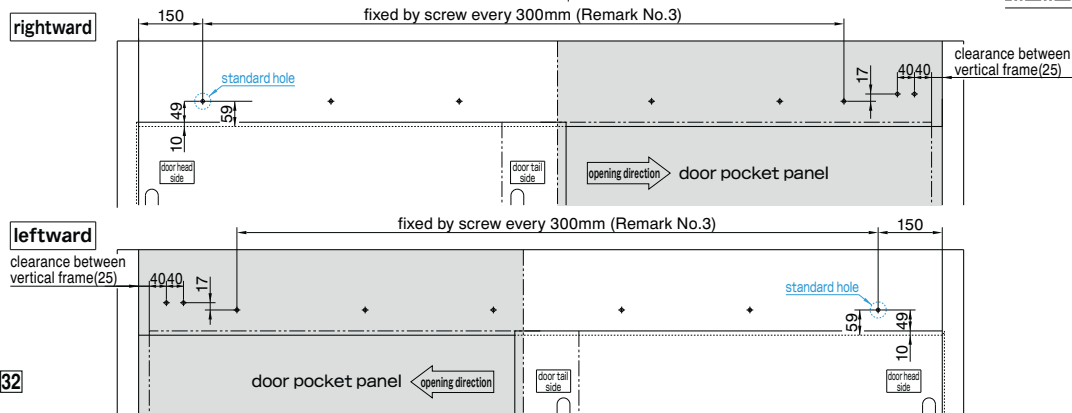
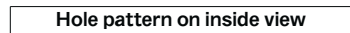
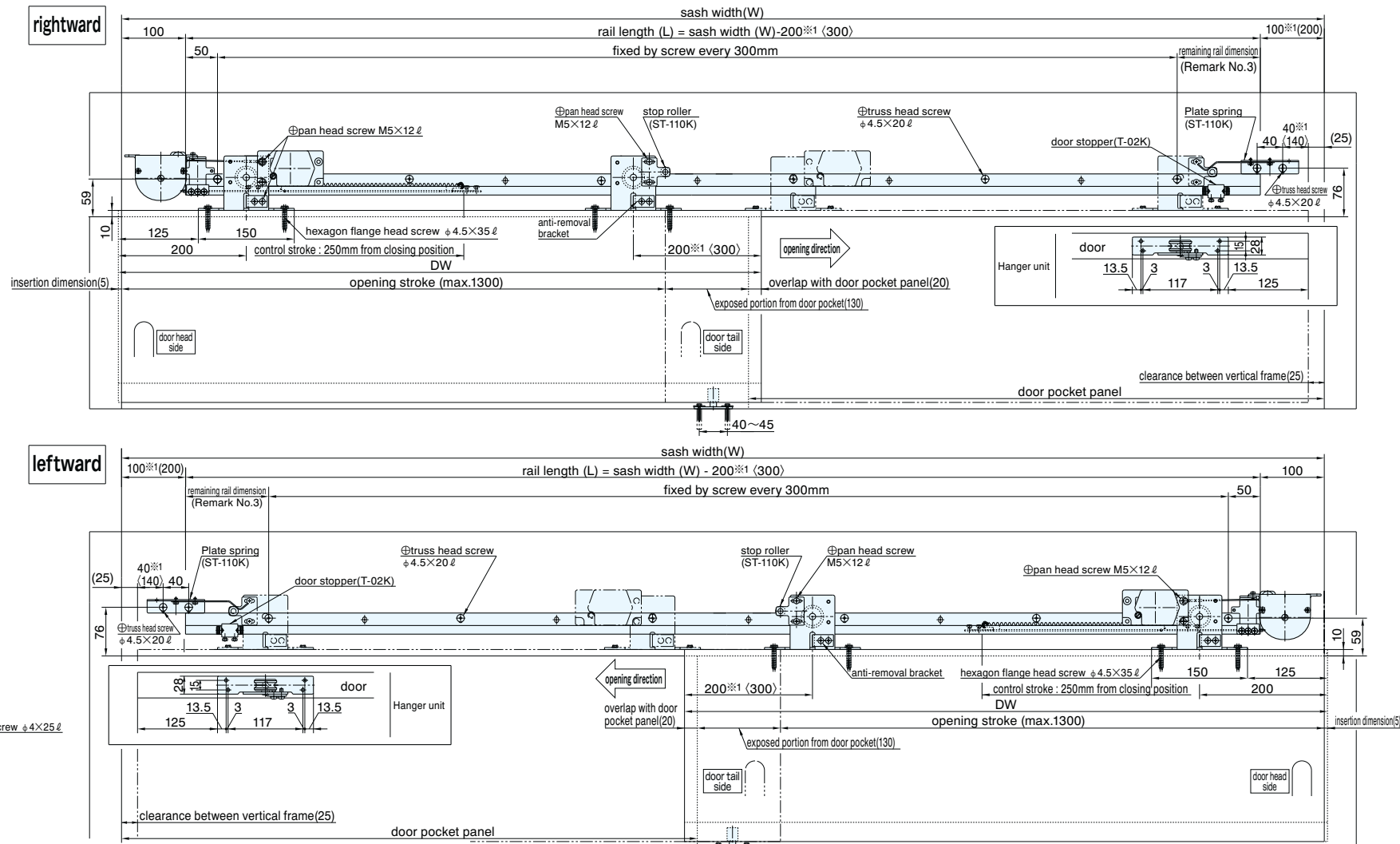
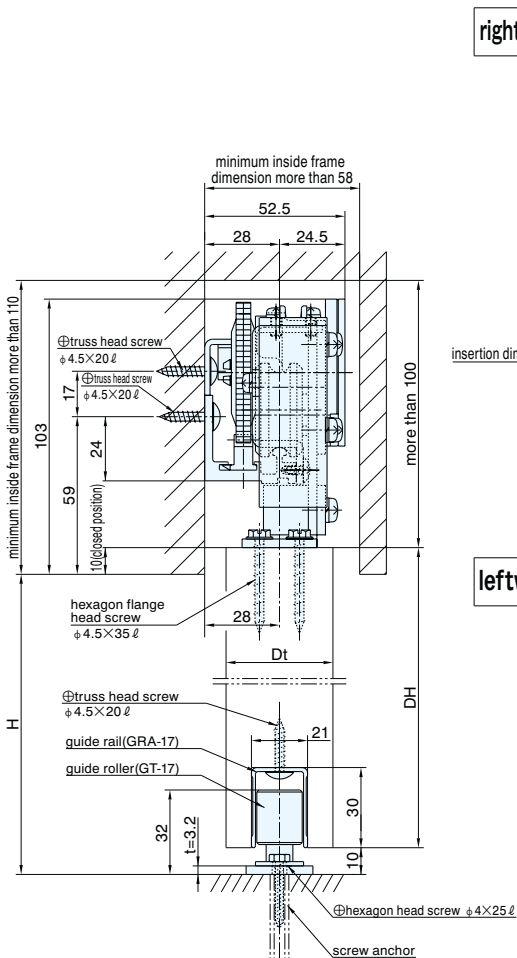


Remark

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 ^{※1} ().
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-2KN30	600 ~ 1450×2400	less than 30

SLS-2KN30 ST110K (OPTION) WITH DRIVE DEVICE SINGLE OPENING FOR WOOD DOOR

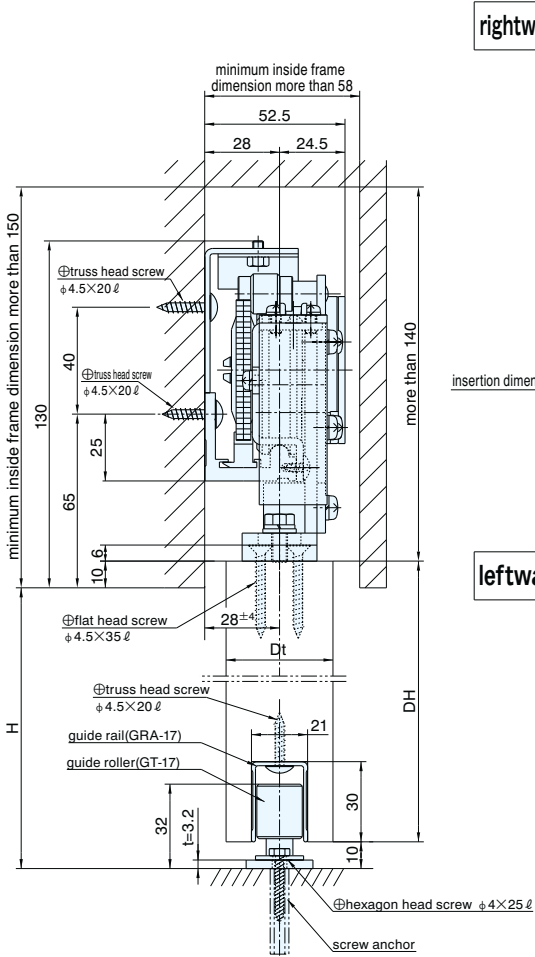


Remark

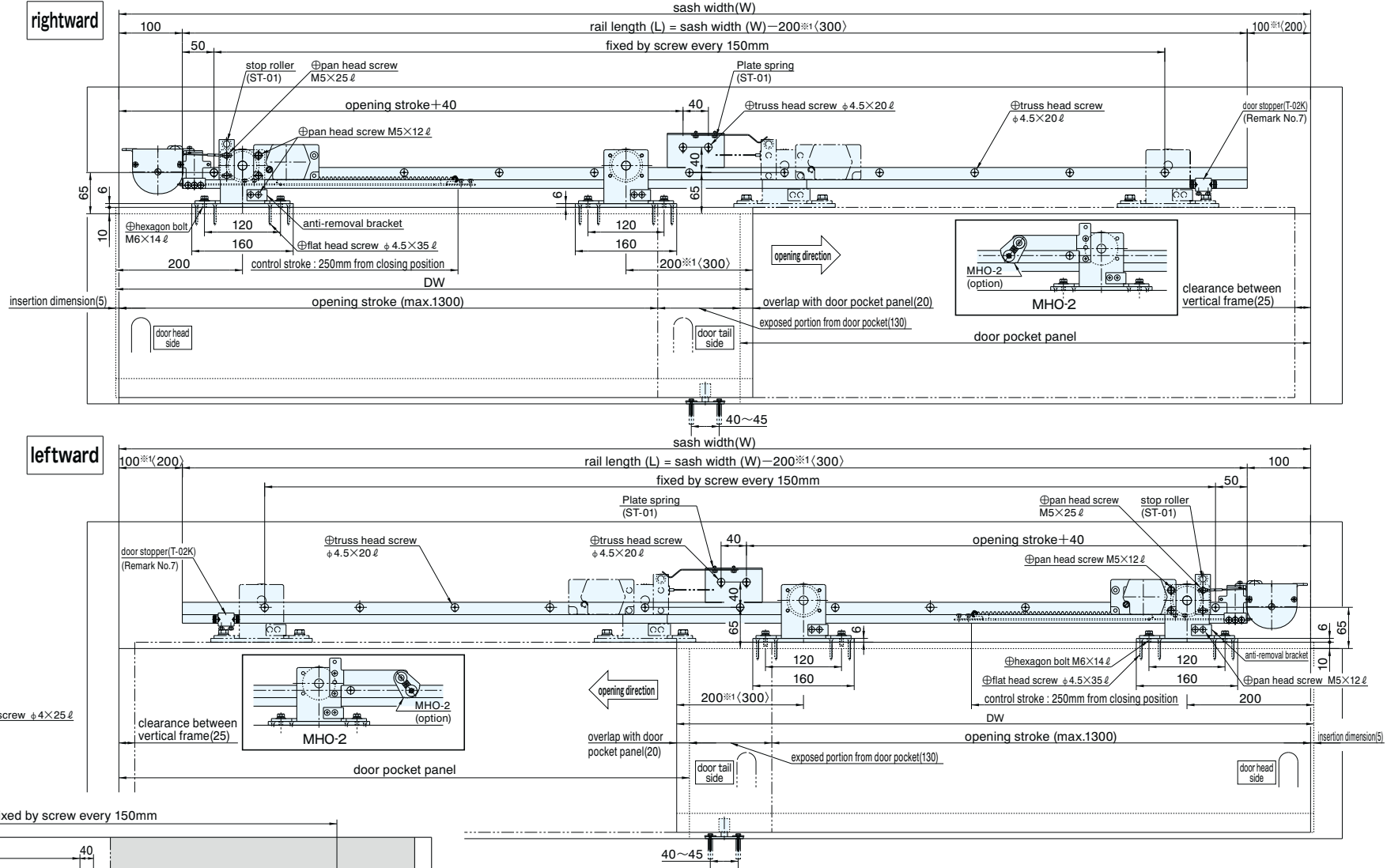
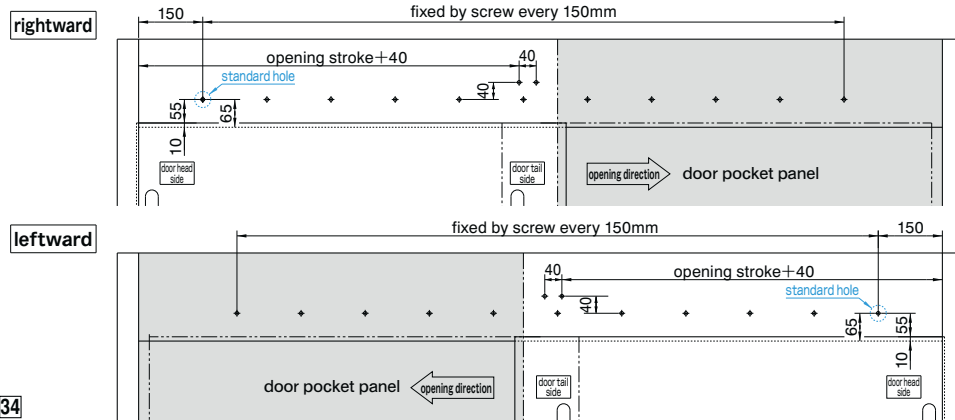
1. This is used both for rightward and leftward.
2. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
3. Fixed by a screw every 300mm. If the remaining rail more than 155mm, fixed by a screw position 150mm away from the final position.
4. In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

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
With Hold-open	SLS-2KN30	600 ~ 1450×2400	less than 100

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



Hole pattern on inside view

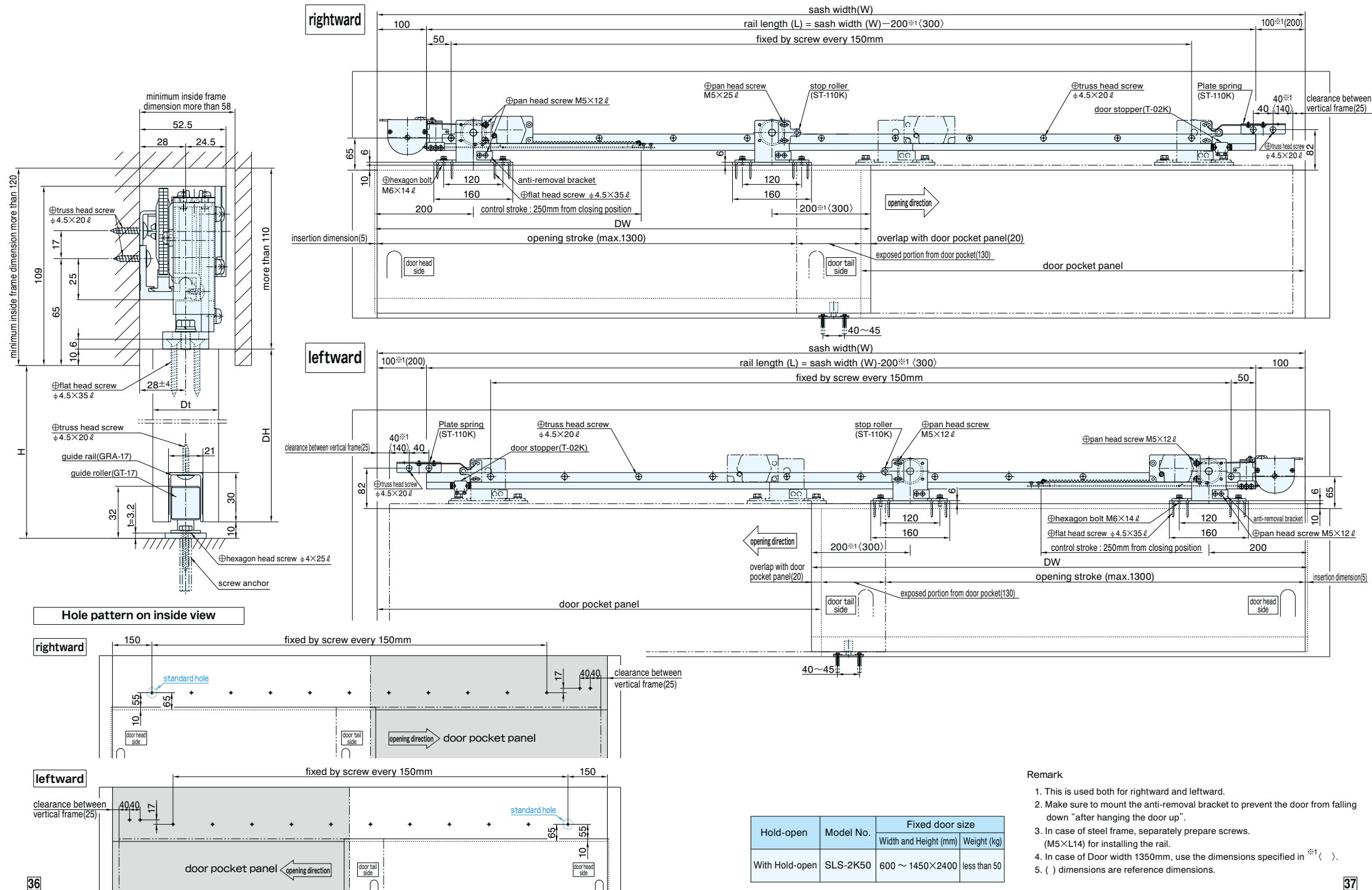


Remark

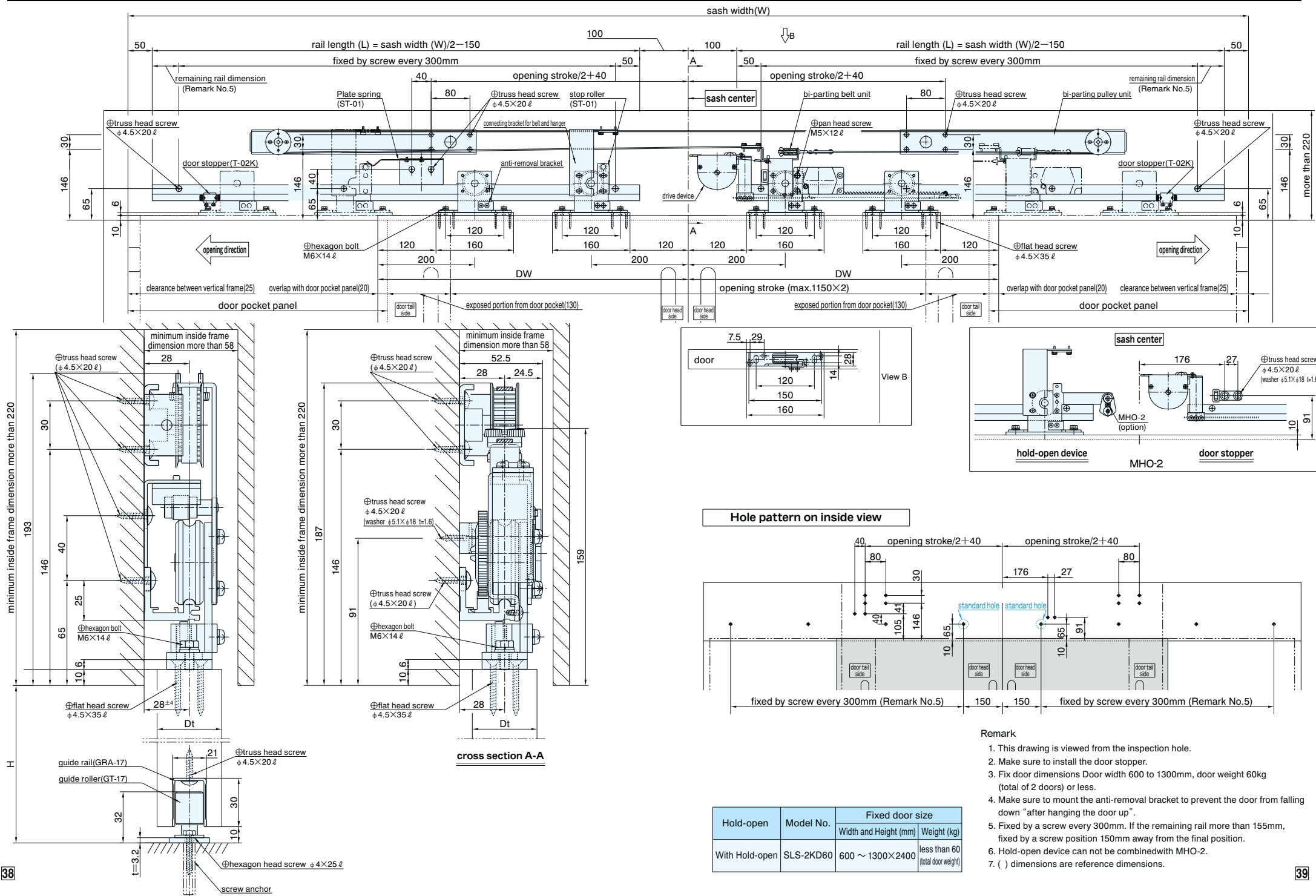
1. This is used both for rightward and leftward.
2. Hold-open device can not be combined with MHO-2.
3. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
4. In case of steel frame, separately prepare screws. (M5xL14) for installing the rail.
5. In case of Door width 1350mm, use the dimensions specified in ① ().
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-2K50	600 ~ 1450×2400	less than 50

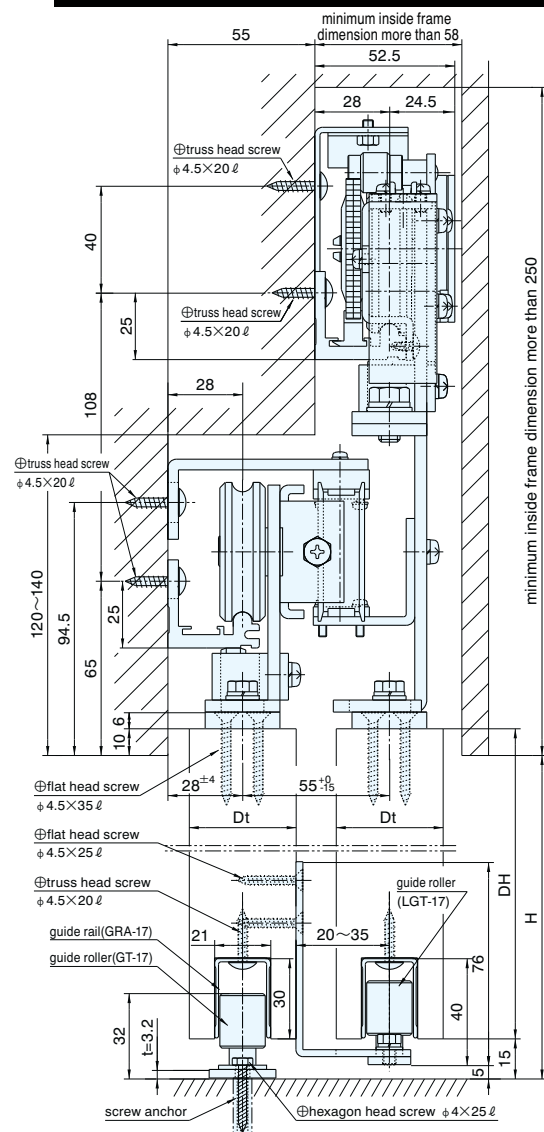
SLS-2K50 ST110K (OPTION) WITH DRIVE DEVICE SINGLE OPENING FOR WOOD DOOR



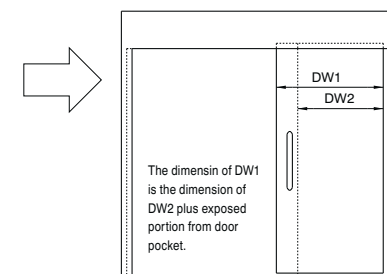
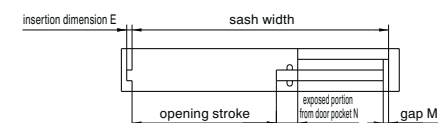
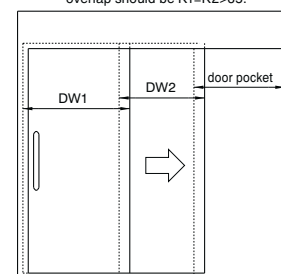
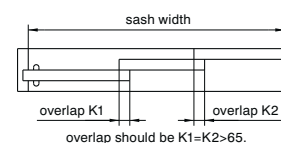
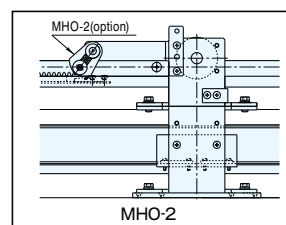
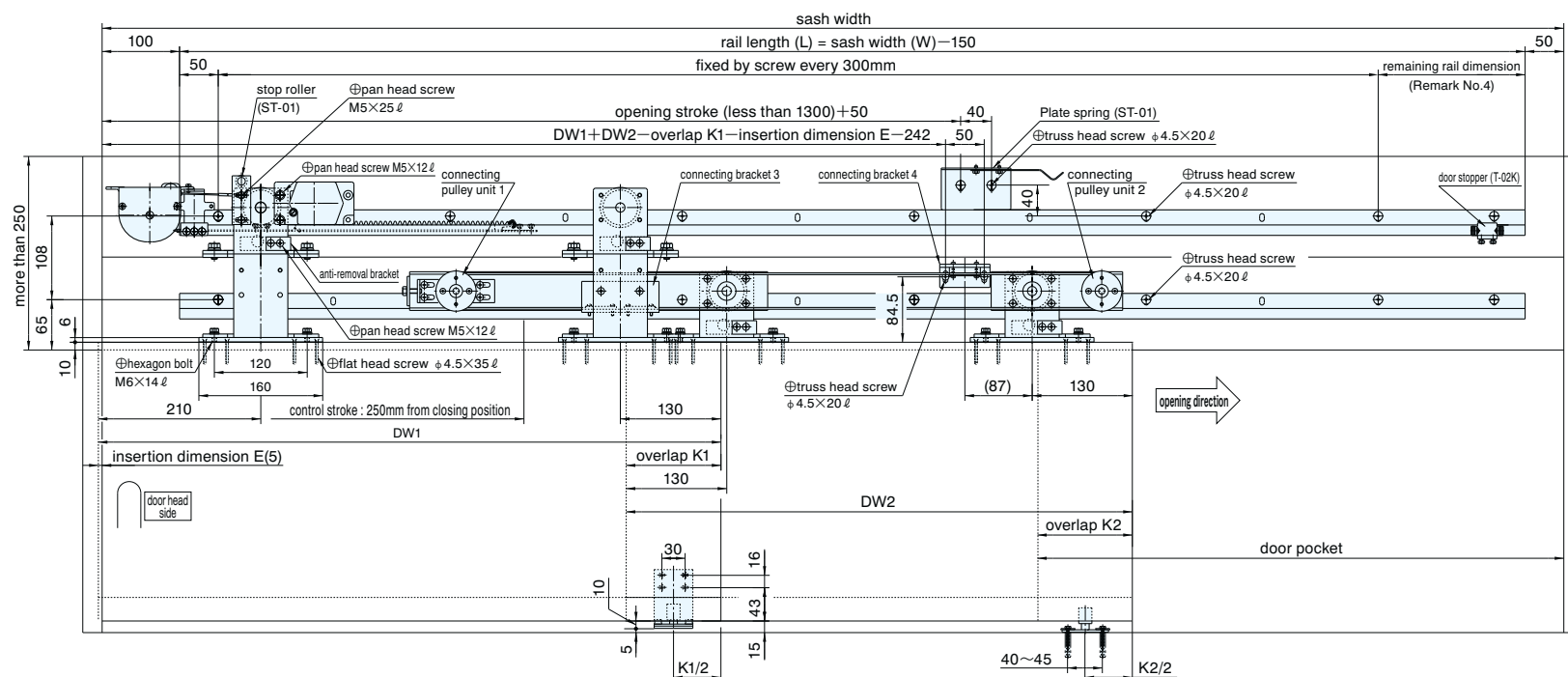
SLS-2KD60 WITH DRIVE DEVICE BI-PARTING FOR WOOD DOOR



SLS-2KW60-R WITH DRIVE DEVICE TELESCOPIA (RIGHTWARD) FOR WOOD DOOR



Hole pattern on inside view



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)

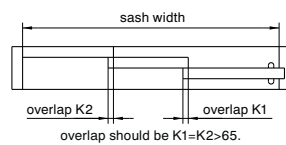
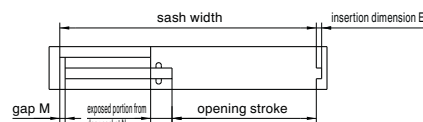
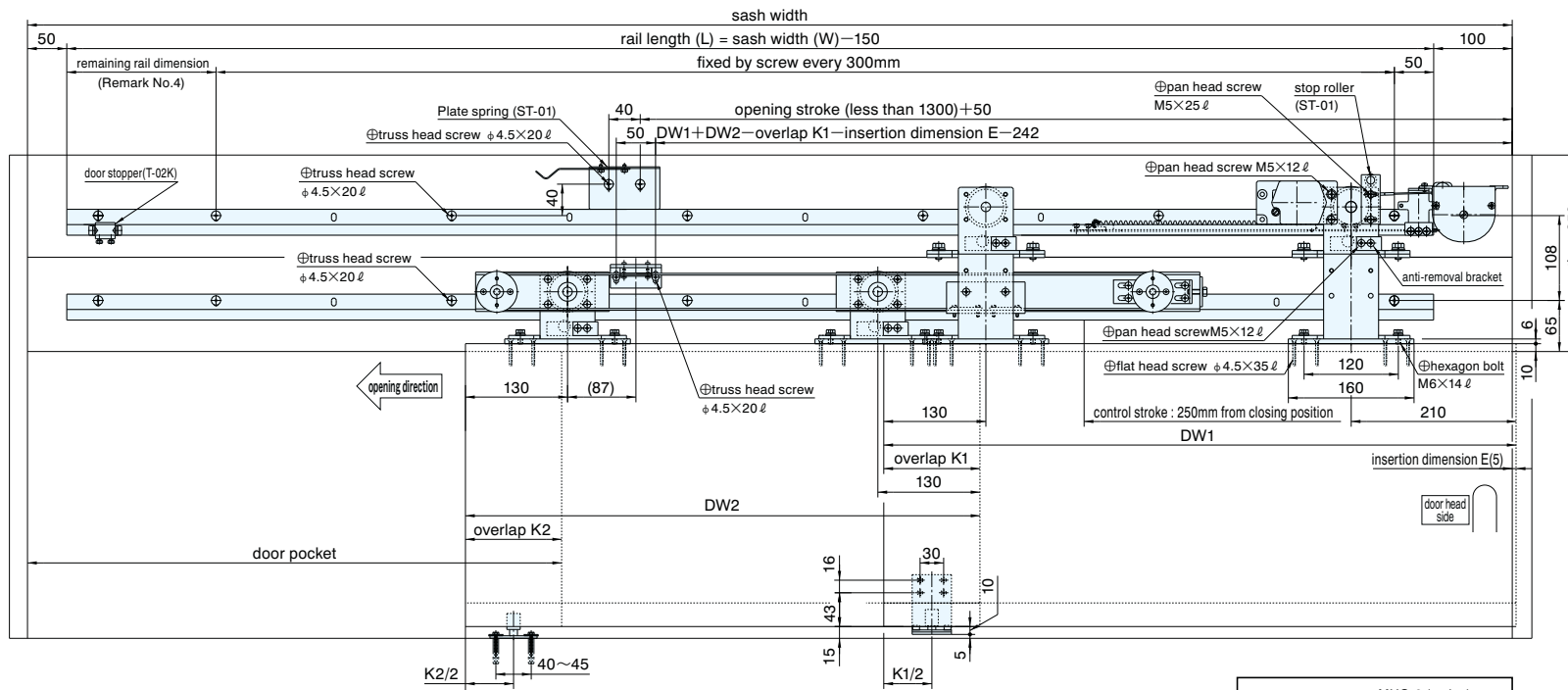
$$\begin{aligned} DW1 &= (E + W + 2 \times N + K1 + K2 - M) / 3 \\ DW2 &= (E + W - N + K1 + K2 - M) / 3 \\ W_s &= ((W - N - M) \times 2 - (K1 + K2 + E)) / 3 \end{aligned}$$

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.
(M5×L14) 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-R	DW1 550 ~ 905×2400	less than total door wei

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)

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

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

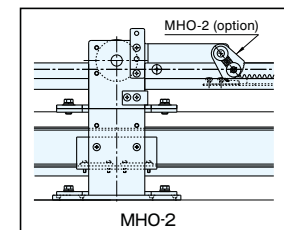
$$W_s = ((W - N - M) \times 2 - (K1 + K2 + E)) / 3$$

The dimension of DW1 is the dimension of DW2 plus exposed portion from door pocket.

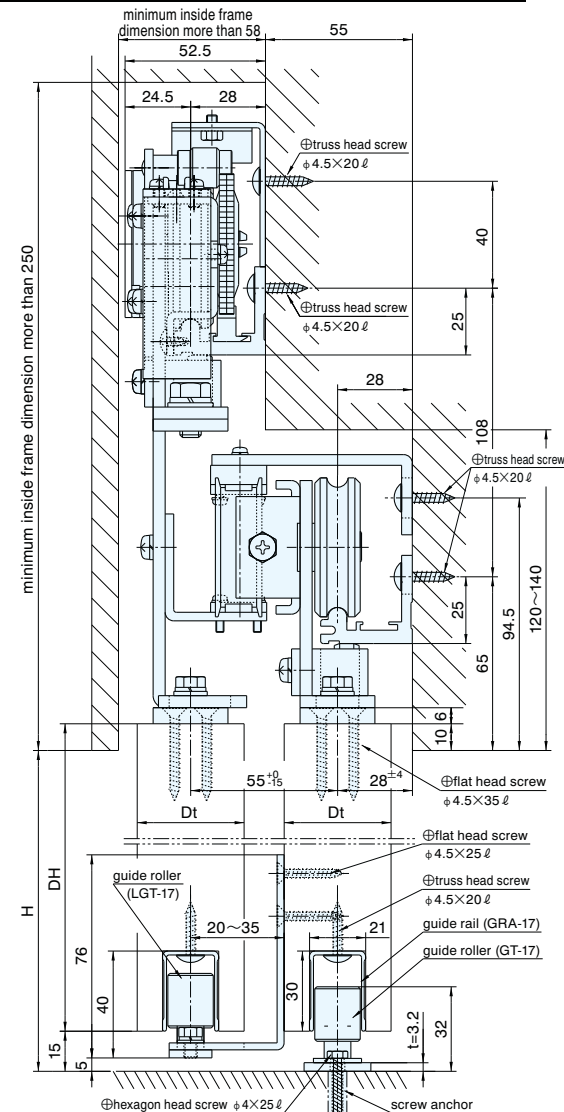
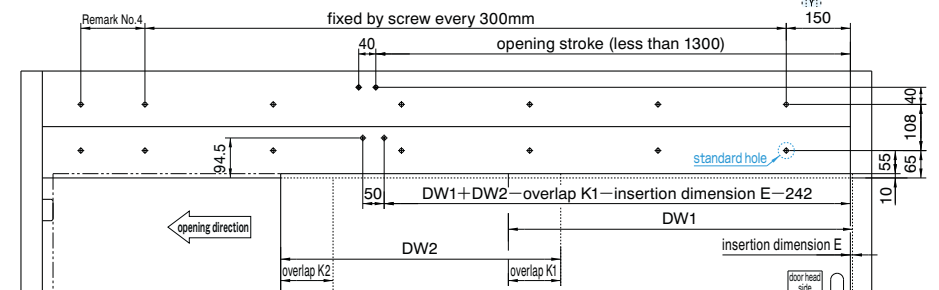
Remark

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. (M5×L14) 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.

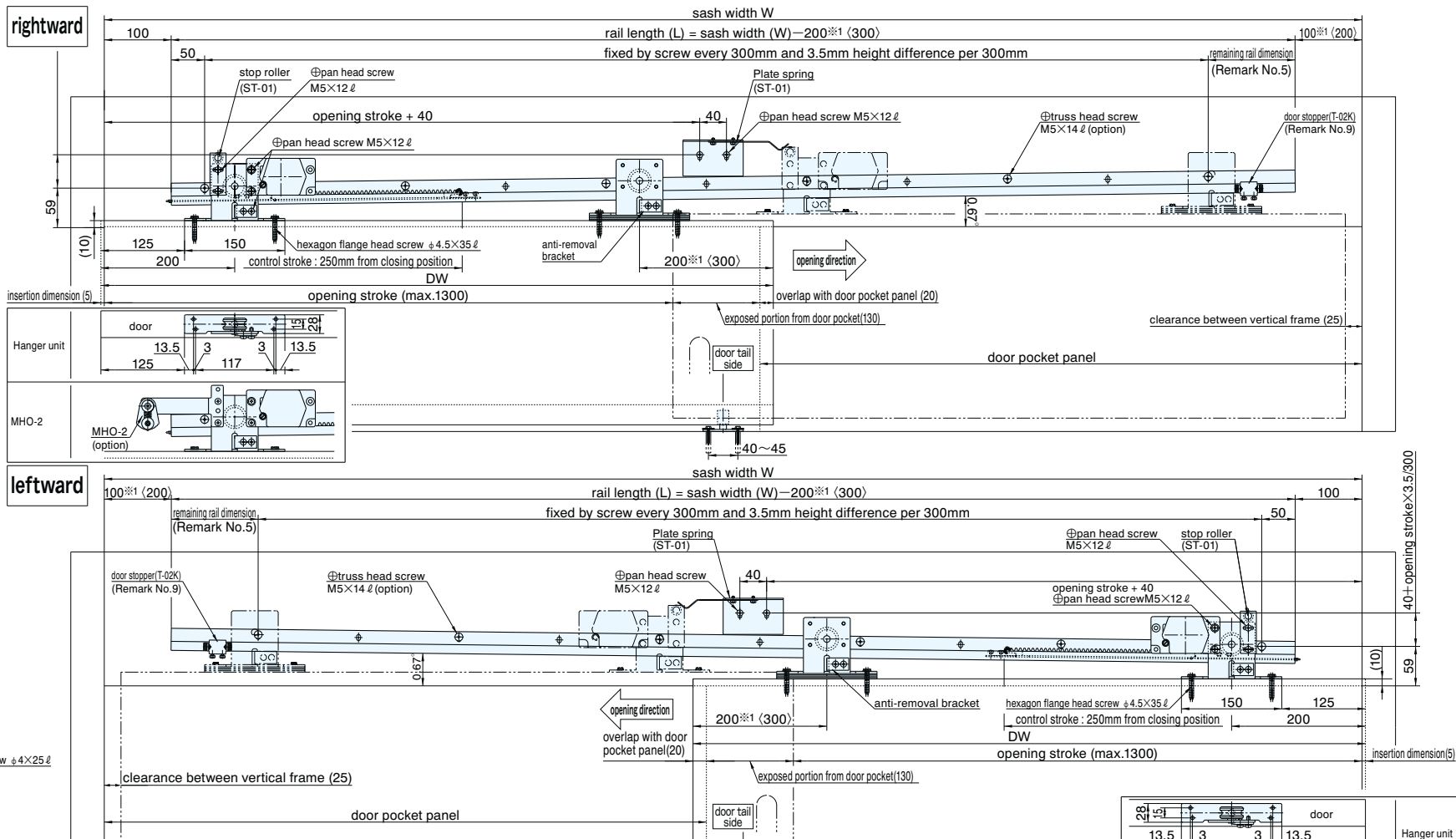
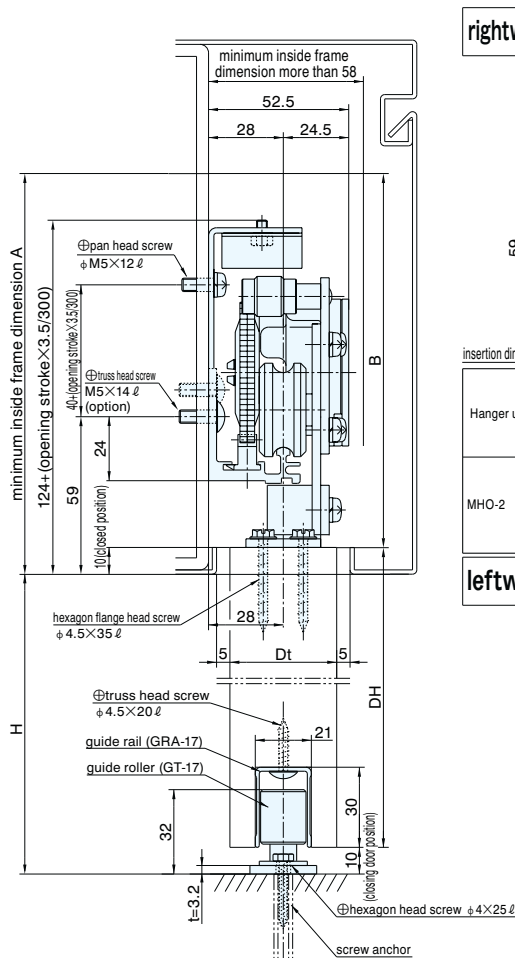
Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
With Hold-open	SLS-2KW60-L	DW1 550 ~ 905×2400	less than 60 (total door weight)



Hole pattern on inside view



SLS-1KN30 SLOPE TYPE SINGLE OPENING FOR STEEL FRAME



Hole pattern on inside view

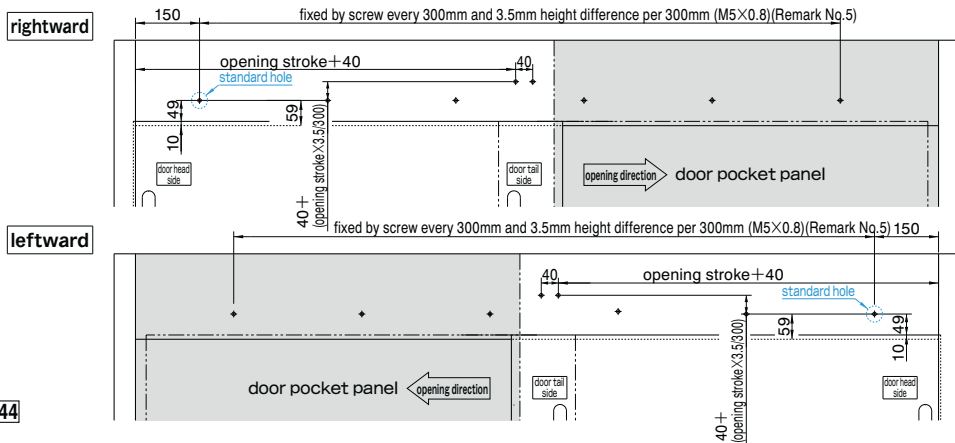


Table 1

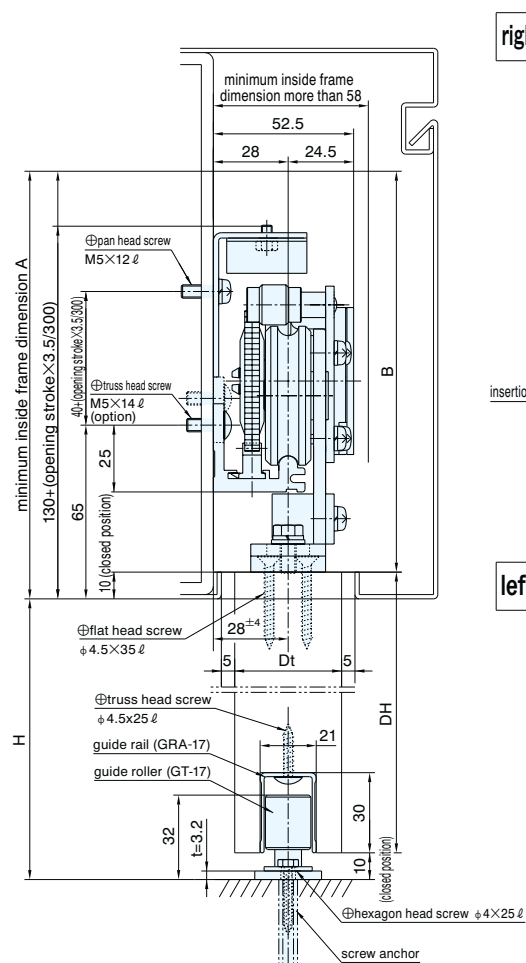
Door size DW(mm)	Necessary spacer quantity for hanger unit	Minimum inside frame dimension A	Dimension B
600 ~ 700	door tail side 4pcs.	140	130
701 ~ 800	door tail side 5pcs.		
801 ~ 900	door tail side 6pcs.		
901 ~ 1000	door tail side 7pcs.		
1001 ~ 1100	door tail side 8pcs.		
1101 ~ 1200	door tail side 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-1KN30	600 ~ 1450 X 2400	10 ~ 30

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. Refer to Table 1 necessary spacer quantity for hanger unit.
5. Fixed by a screw every 300mm and 3.5mm height difference per 300mm.
6. In case of steel frame, separately prepare screws.
(M5X14) for installing the rail.
7. In case of Door width 1350mm, use the dimensions specified in ().
8. () dimensions are reference dimensions.
9. In case of storing-in-wall, install a door stopper on the door or frame instead of T-02K.

SLS-1K50 SLOPE TYPE SINGLE OPENING FOR STEEL FRAME



Hole pattern on inside view

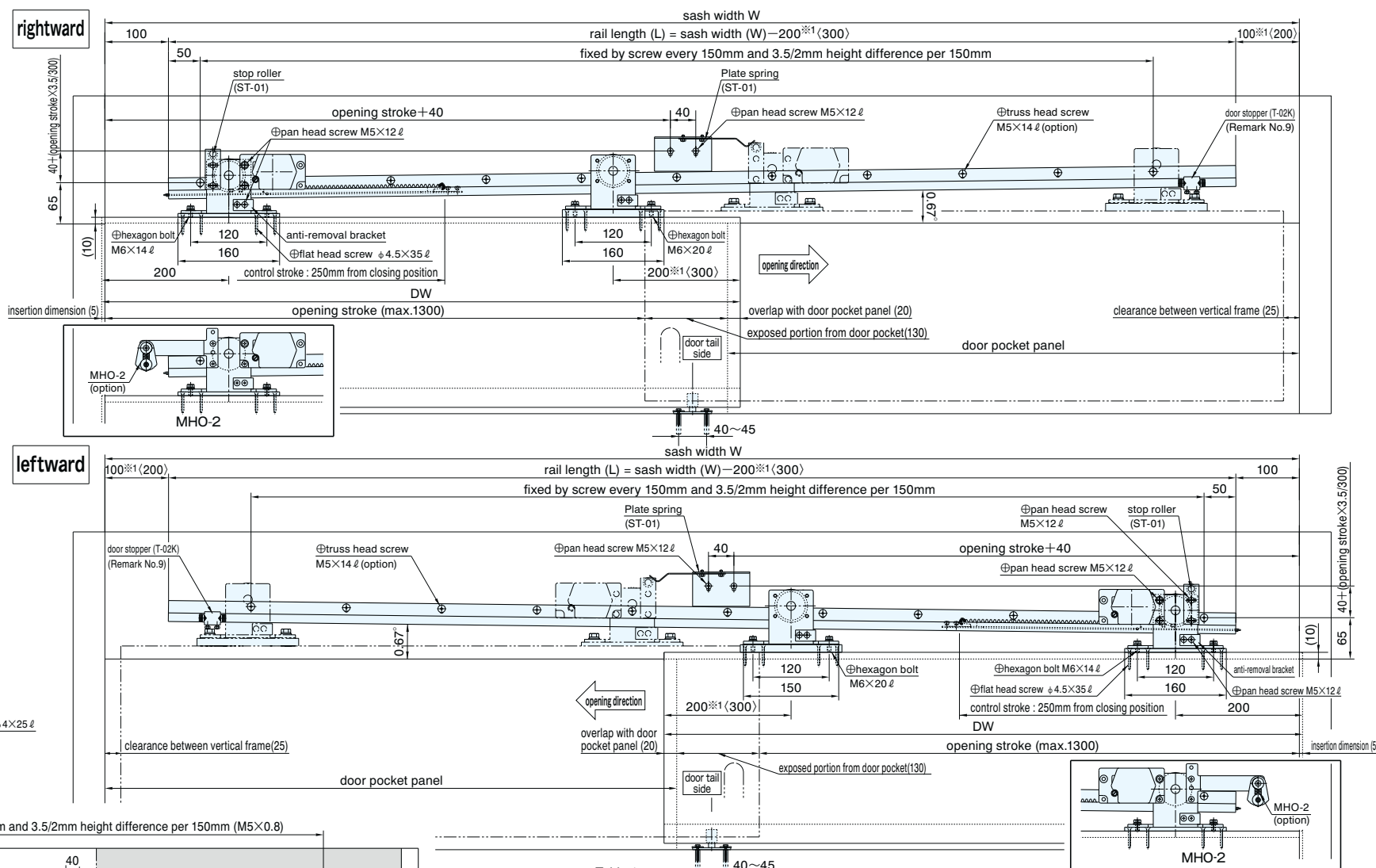
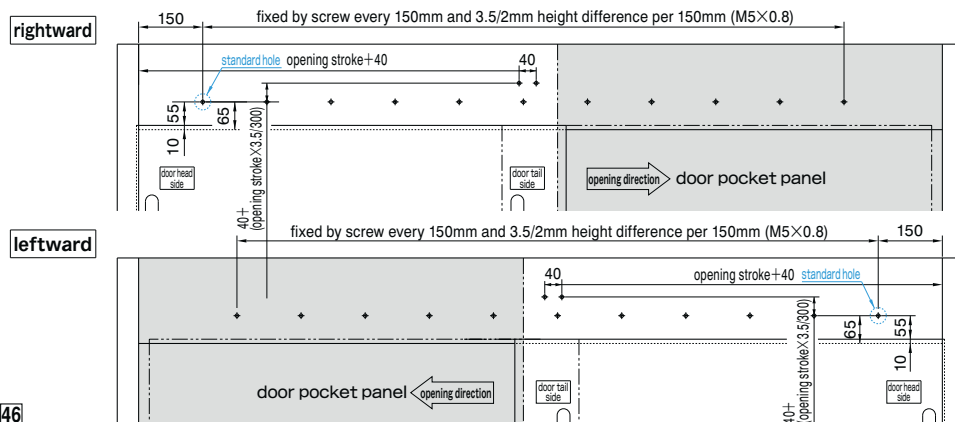


Table 1

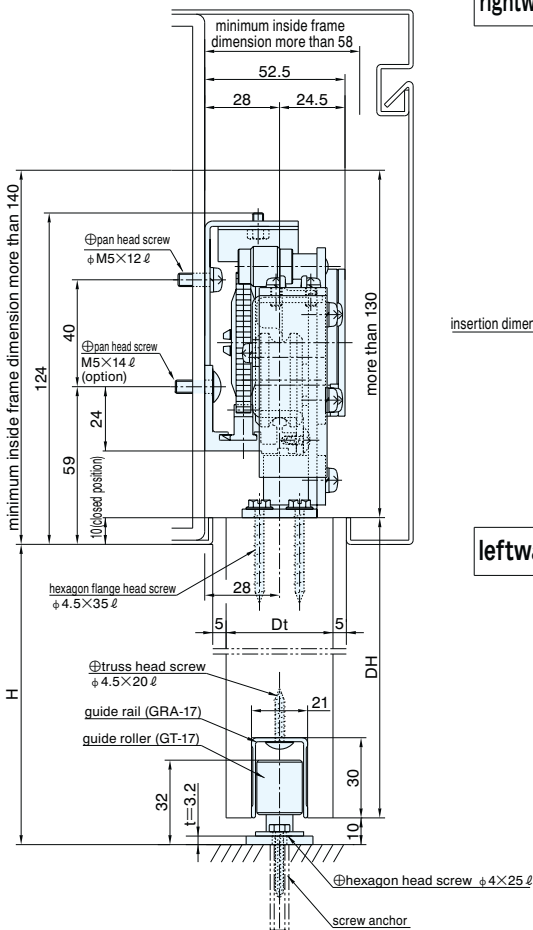
Door size DW(mm)	Necessary spacer quantity for hanger unit	Minimum inside frame dimension A	Dimension B
600 ~ 700	door head side 2pcs.	145	135
701 ~ 800	door head side 1pcs.	150	140
801 ~ 900	Not necessary		
901 ~ 1000	door tail side 1 pcs.		
1001 ~ 1100	door tail side 2pcs.		
1101 ~ 1200	door tail side 3pcs.	160	150
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

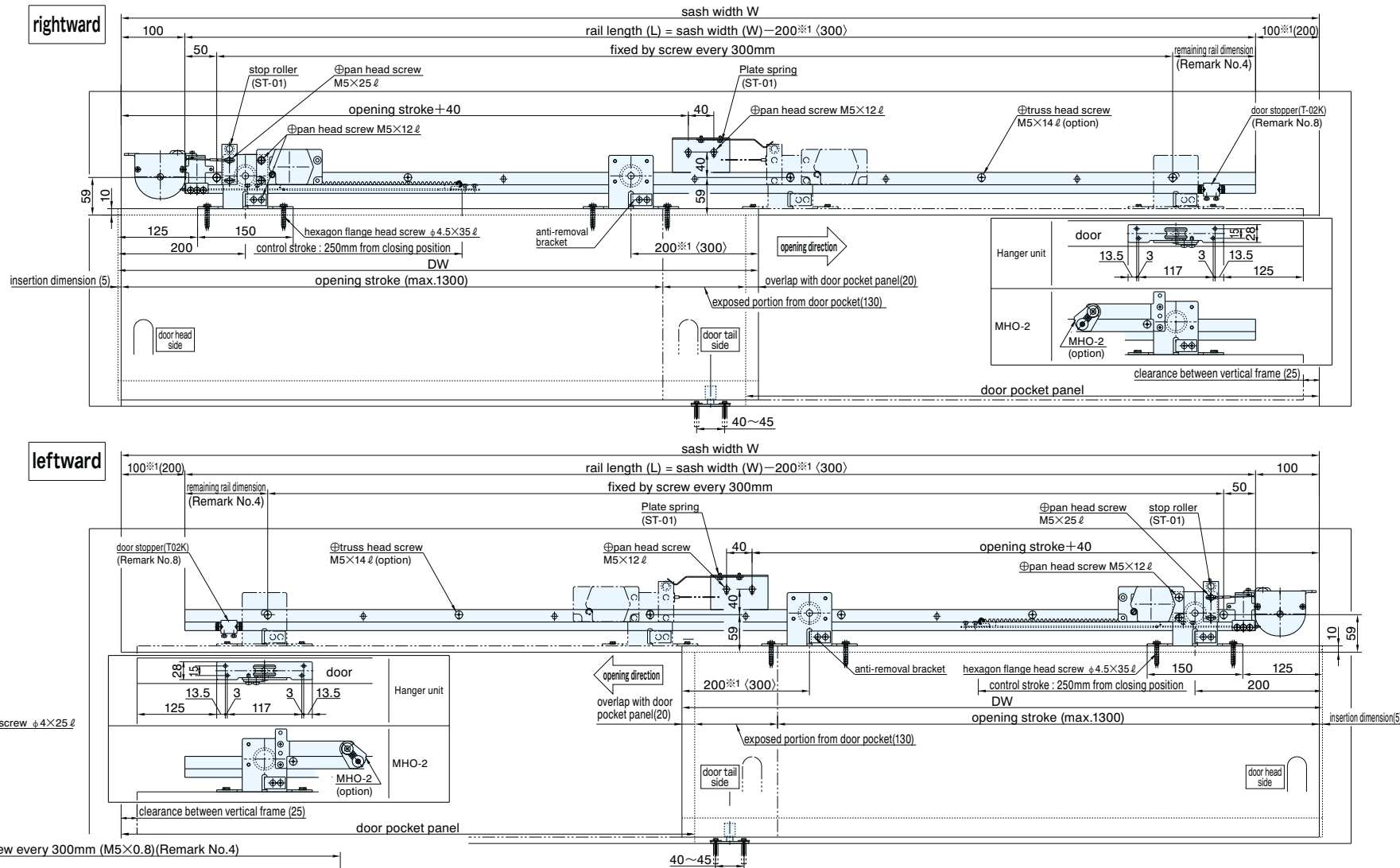
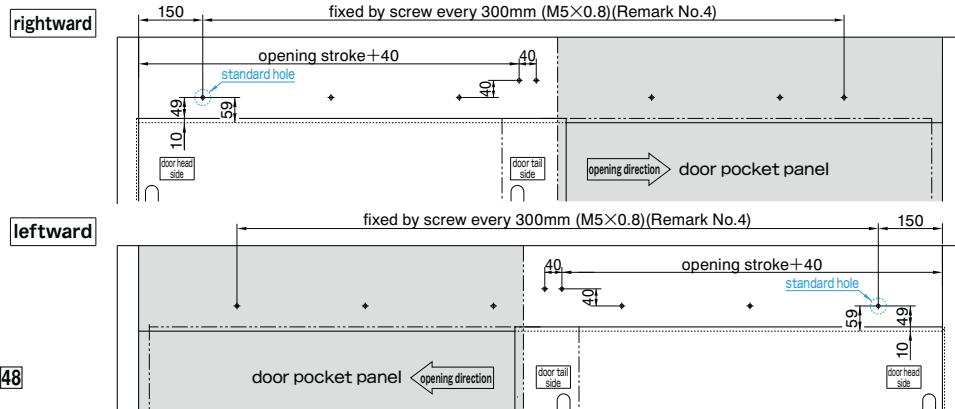
Remark

1. This is used both for rightward and leftward.
2. In case of steel frame, separately prepare screws.
(M5×L14) for installing the rail.
3. Hold-open device can not be combined with MHO-2.
4. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
5. Fixed by screw every 150mm and 3.5/2mm height difference per 150mm from standard position at door head side
6. Refer to Table 1 necessary spacer quantity for hanger unit.
7. In case of Door width 1350mm, use the dimensions specified in ※1 ().
8. () dimensions are reference dimensions.
9. In case of storing-in-wall, install a door stopper on the door or frame instead of T-02K.

SLS-2KN30 WITH DRIVE DEVICE SINGLE OPENING FOR STEEL FRAME



Hole pattern on inside view

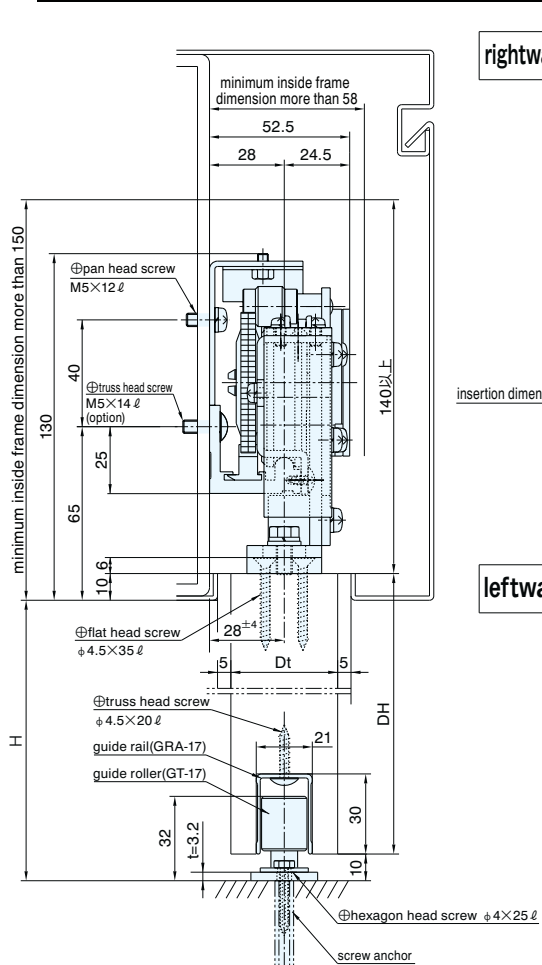


Remark

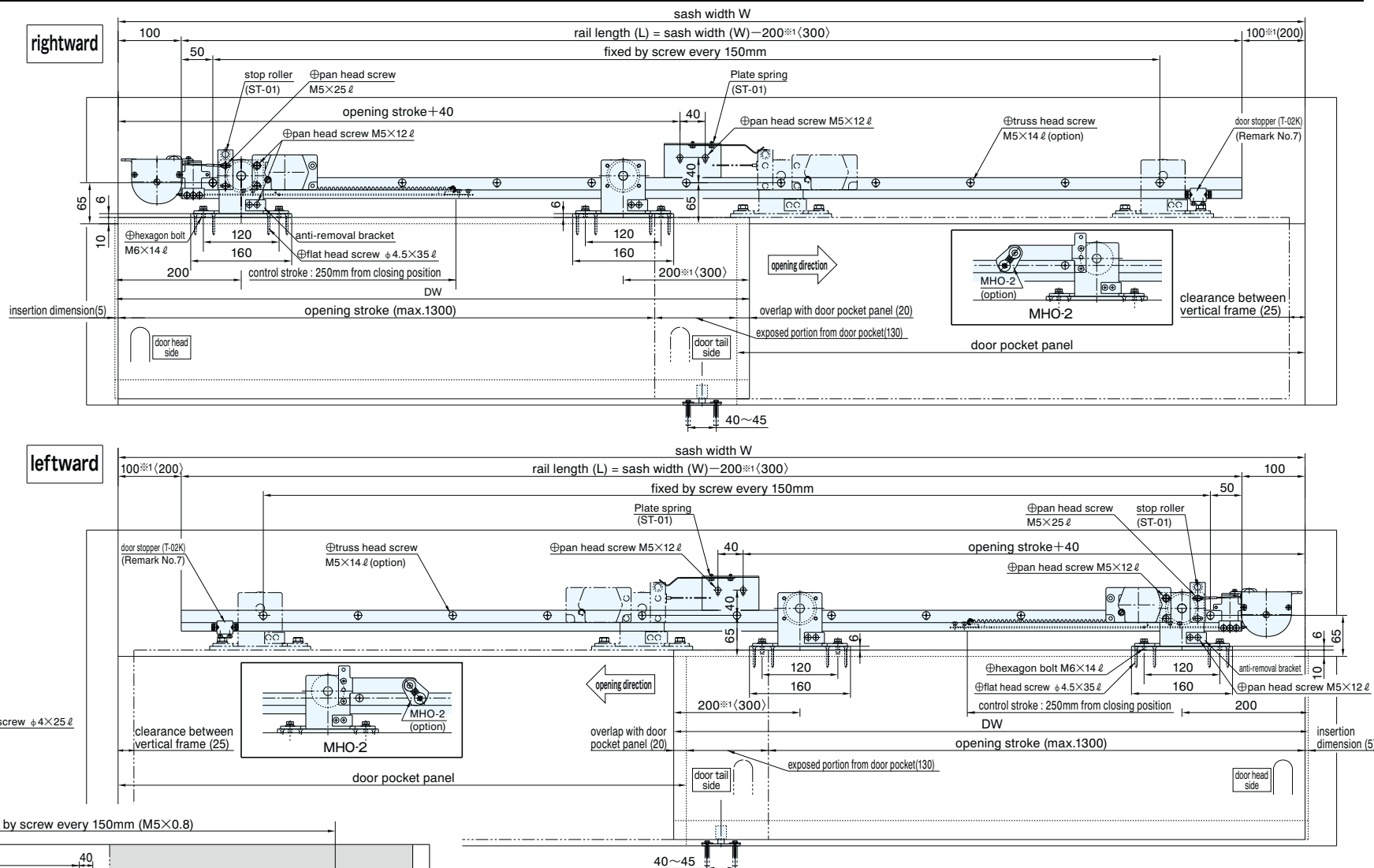
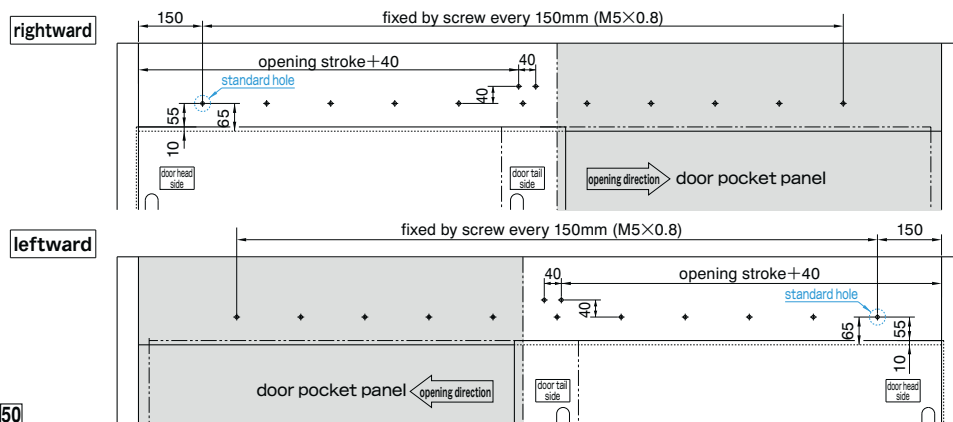
1. This is used both for rightward and leftward.
2. Hold-open device can not be combined with MHO-2.
3. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
4. Fixed by a screw every 300mm. If the remaining rail more than 155mm, fixed by a screw position 150mm away from the final position.
5. In case of steel frame, separately prepare screws. (M5 \times L14) for installing the rail.
6. In case of Door width 1350mm, use the dimensions specified in \times 1 ().
7. () dimensions are reference dimensions.
8. 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-2KN30	600 ~ 1450 \times 2400	less than 30

SLS-2K50 WITH DRIVE DEVICE SINGLE OPENING FOR STEEL FRAME



Hole pattern on inside view



Remark

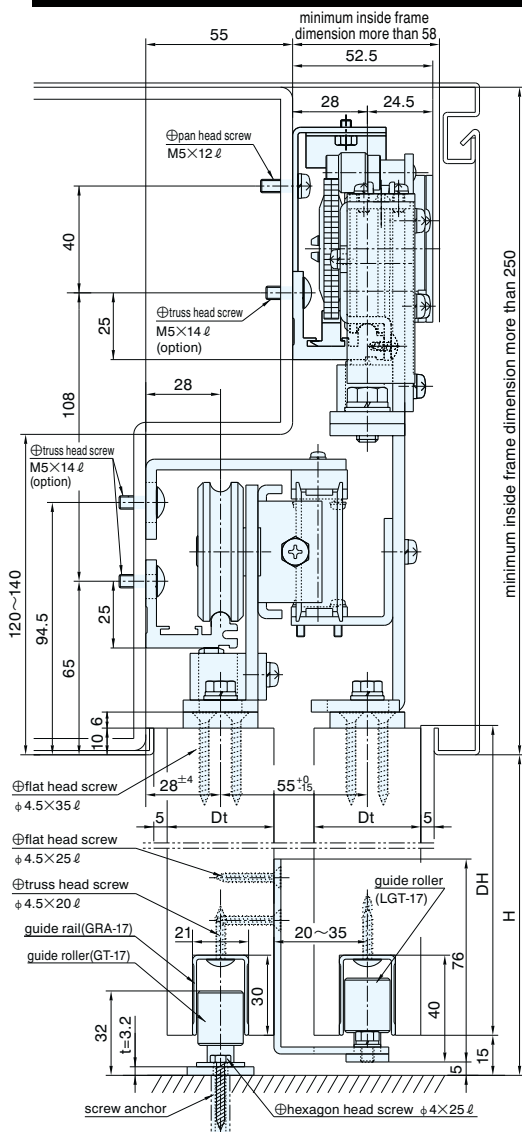
1. This is used both for rightward and leftward.
2. In case of steel frame, separately prepare screws.
(M5×L14)for installing the rail.
3. Hold-open device can not be combined with MHO-2.
4. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
5. In case of Door width 1350mm, use the dimensions specified in ※1 ().
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-2K50	600 ~ 1450×2400	less than 100

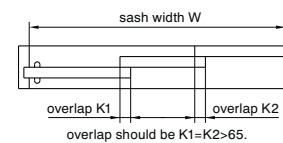
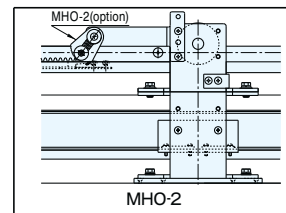
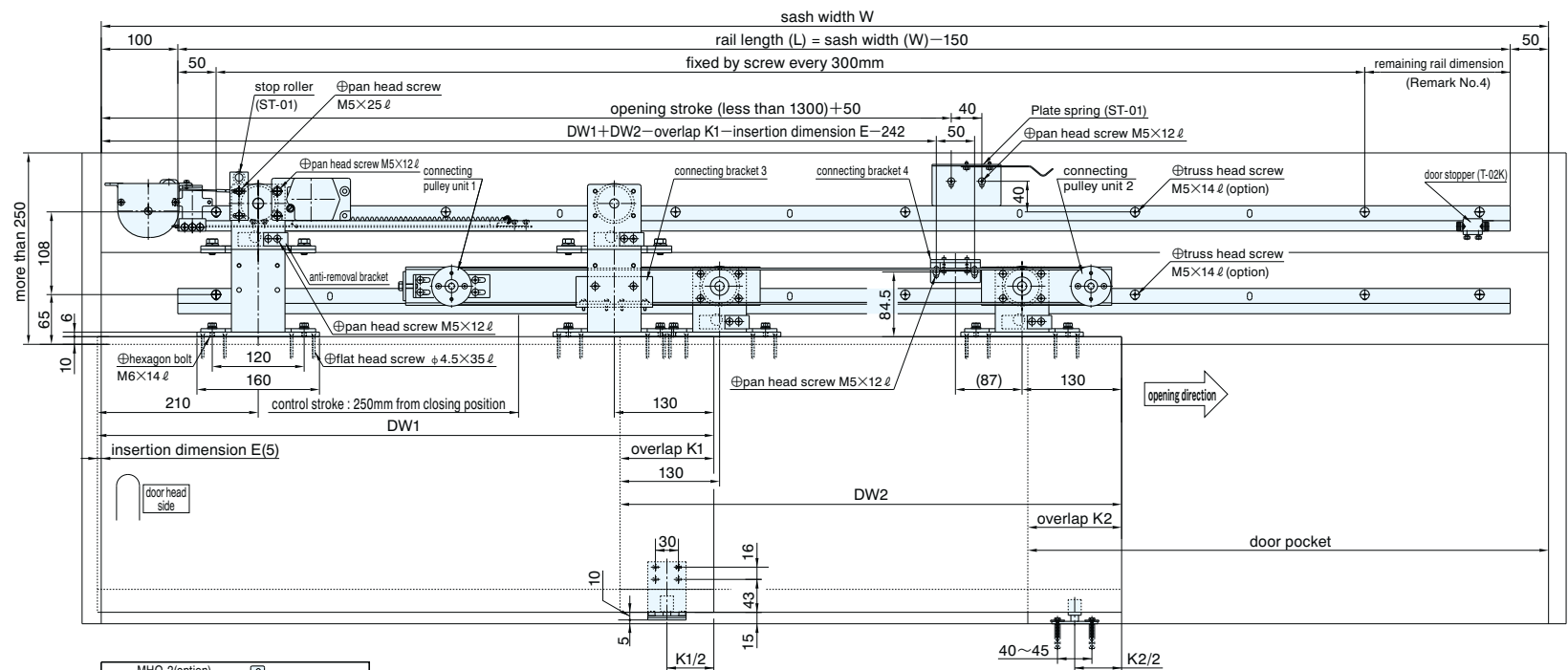
SLS-2KD60 WITH DRIVE DEVICE BI-PARTING FOR STEEL FRAME



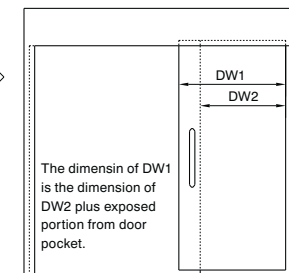
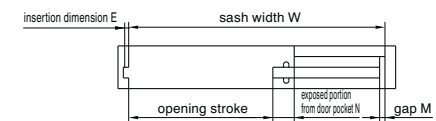
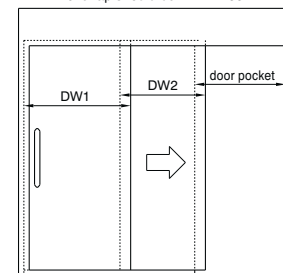
SLS-2KW60-R WITH DRIVE DEVICE TELESCOPIA (RIGHTWARD) FOR STEEL FRAME



Hole pattern on inside view



overlap should be $K_1=K_2>65$.



The dimension of DW1 is the dimension of DW2 plus exposed portion from door pocket.

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)

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

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

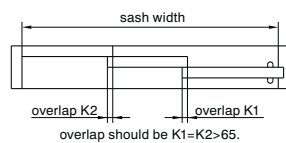
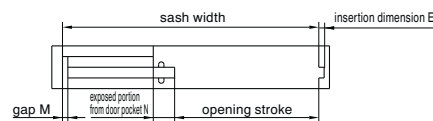
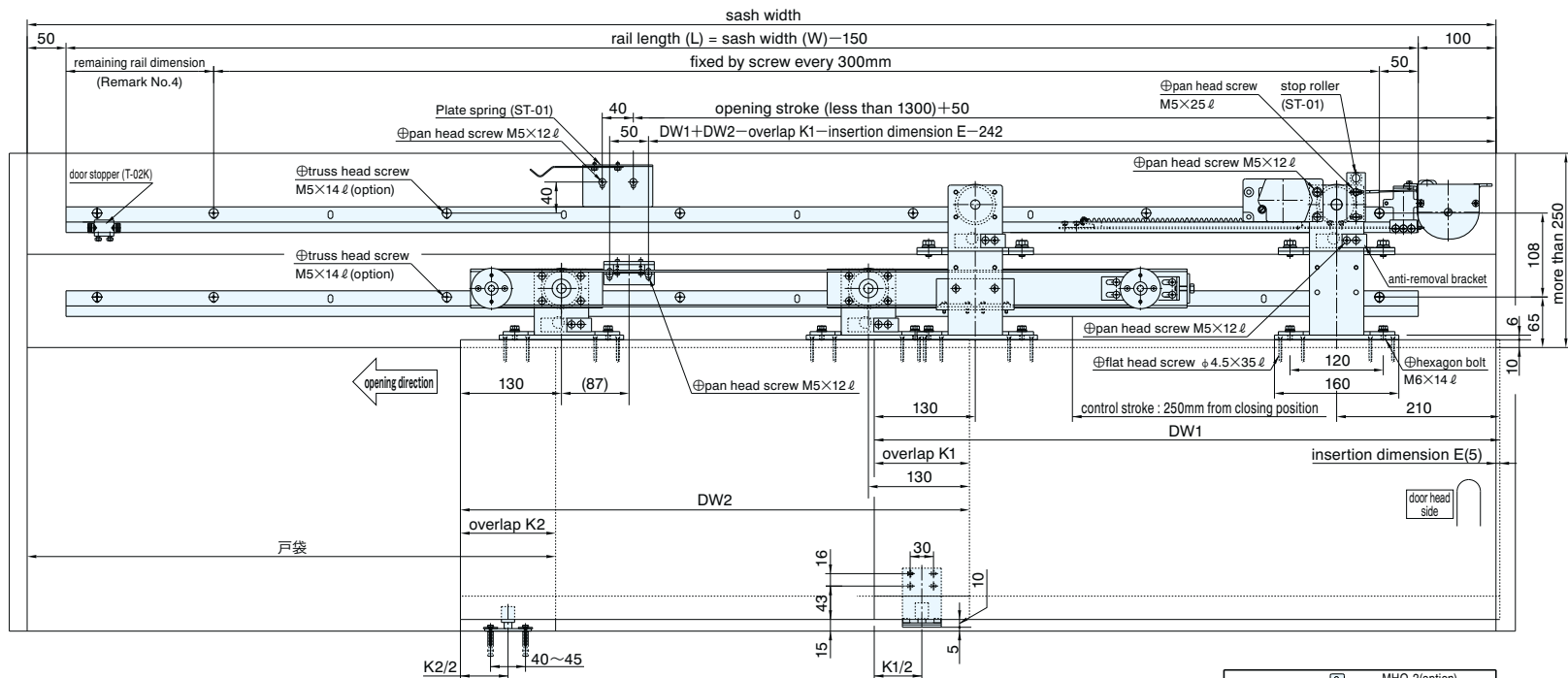
$$W_s = \langle (W - N - M) \times 2 - (K_1 + K_2 + E) \rangle / 3$$

Remark

1. This is used both for rightward and leftward.
2. Incase of steel frame, separately prepare screws.
3. Hold-open device can not be combined with MHO-2.
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. Make sure to mount the anti-removal bracket to prevent the door from falling down
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-R	DW1 550 ~ 905×2400	less than 60 (total door weight)

SLS-2KW60-L WITH DRIVE DEVICE TELESCOPIA (LEFTWARD) FOR STEEL FRAME



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)

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

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

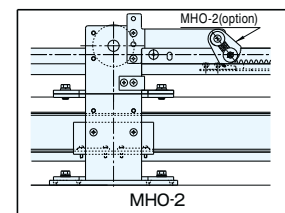
$$Ws = ((W - N - M) \times 2 - (K1 + K2 + E)) / 3$$

The dimension of DW1 is the dimension of DW2 plus exposed portion from door pocket.

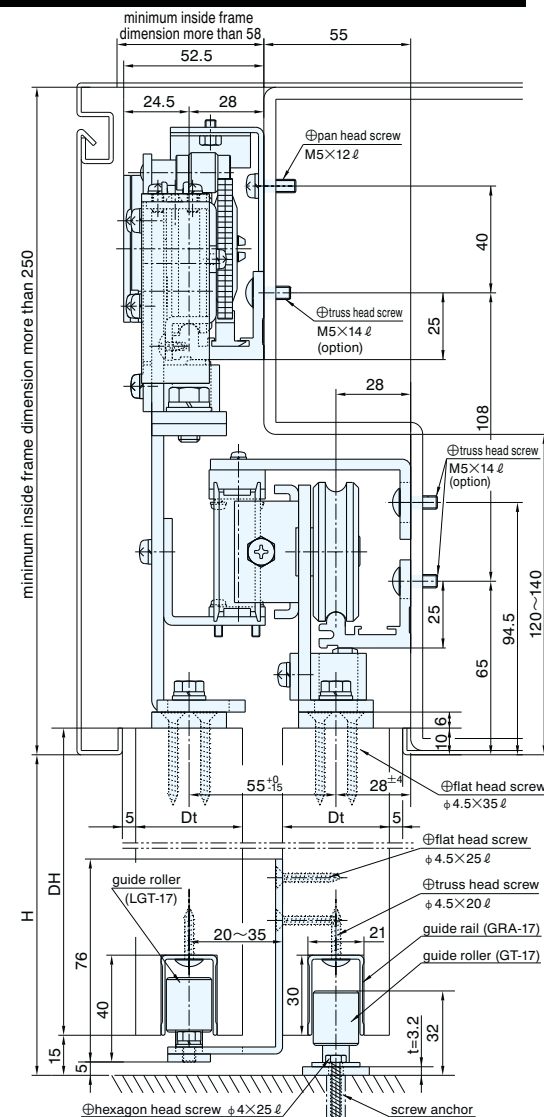
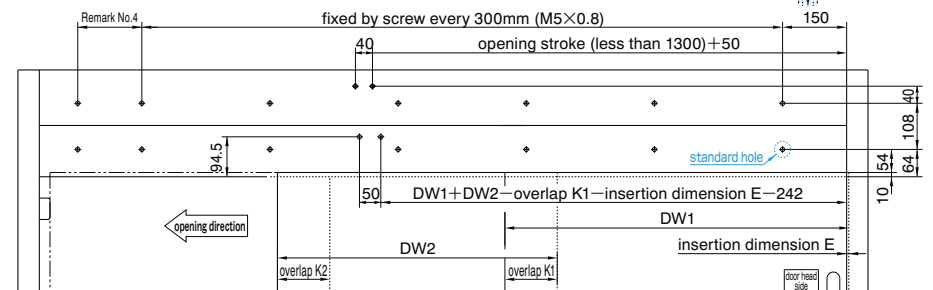
Remark

1. This is used both for rightward and leftward.
2. In case of steel frame, separately prepare screws. (M5xL14) for installing the rail.
3. Hold-open device can not be combined with MHO-2.
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. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
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.

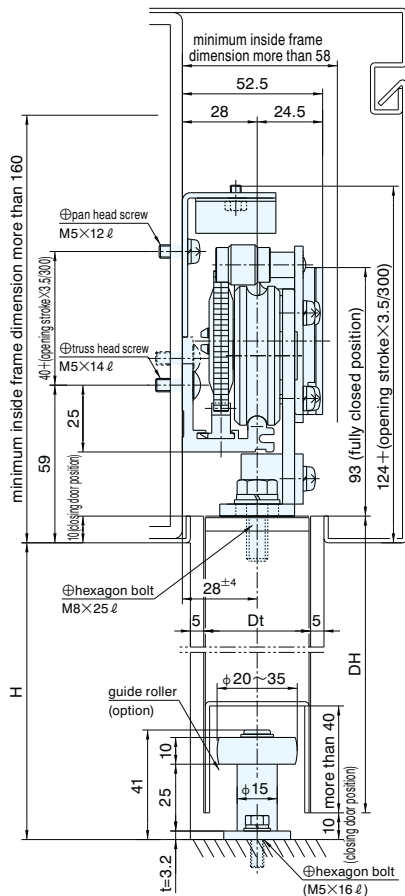
Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
With Hold-open	SLS-2KW60-L	DW1 550 ~ 905x2400	less than 60 (total door weight)



Hole pattern on inside view



SL-1 SLOPE TYPE SINGLE OPENING FOR STEEL DOOR



Hole pattern on inside view

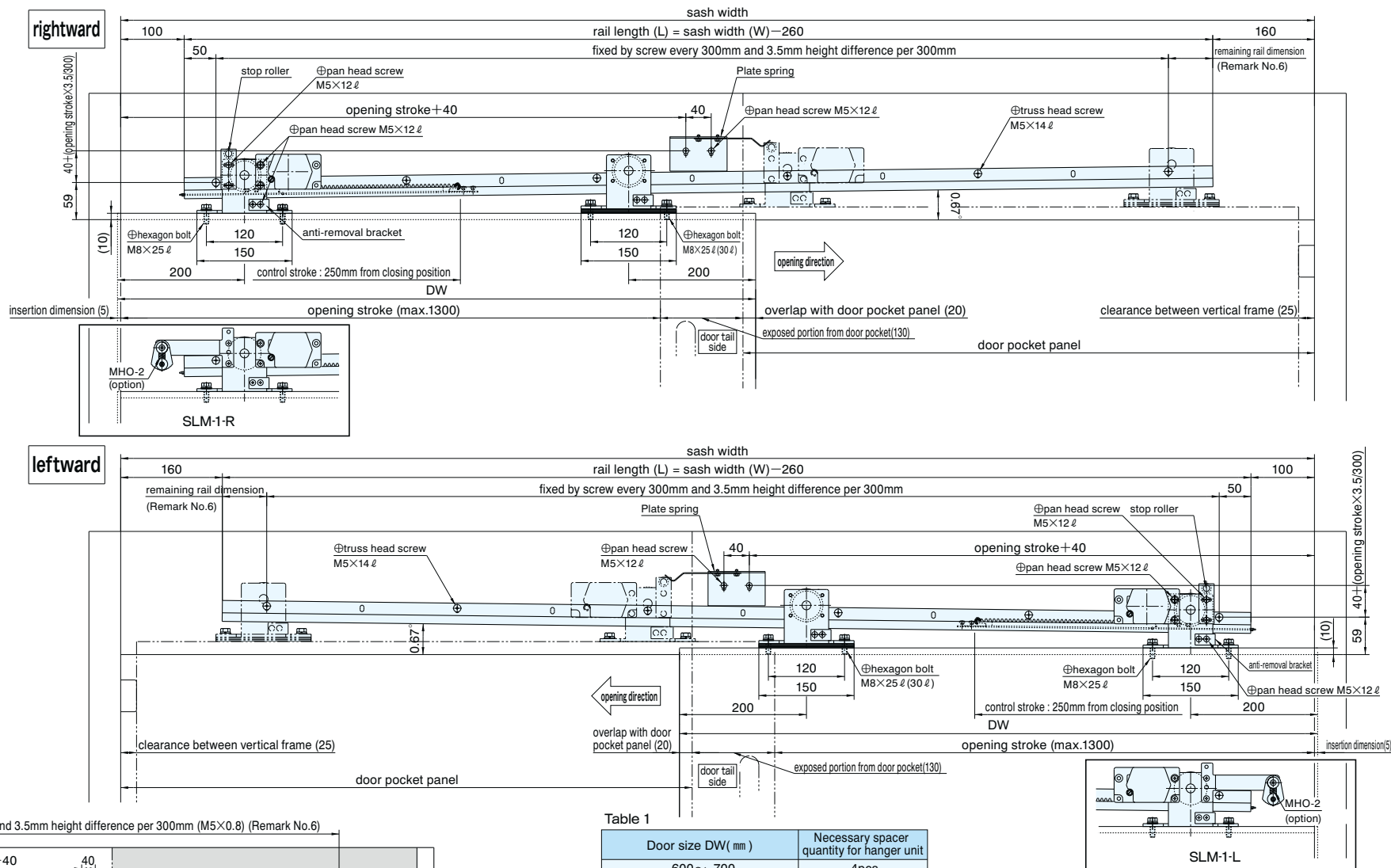
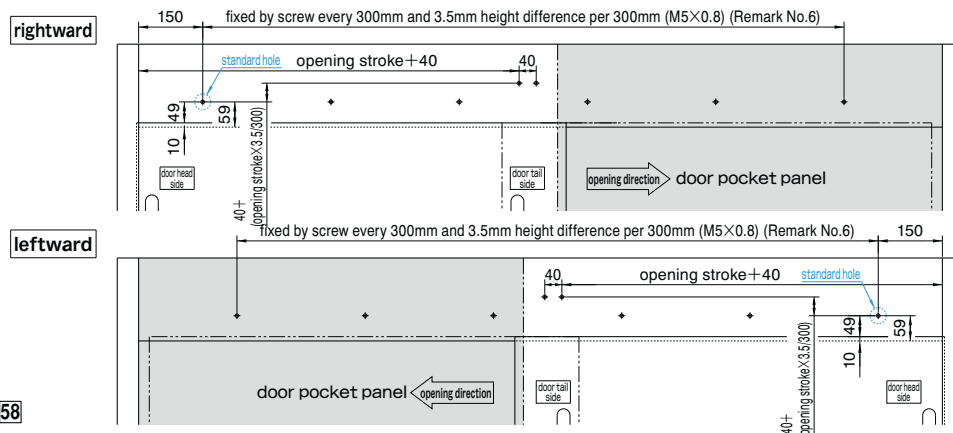


Table 1

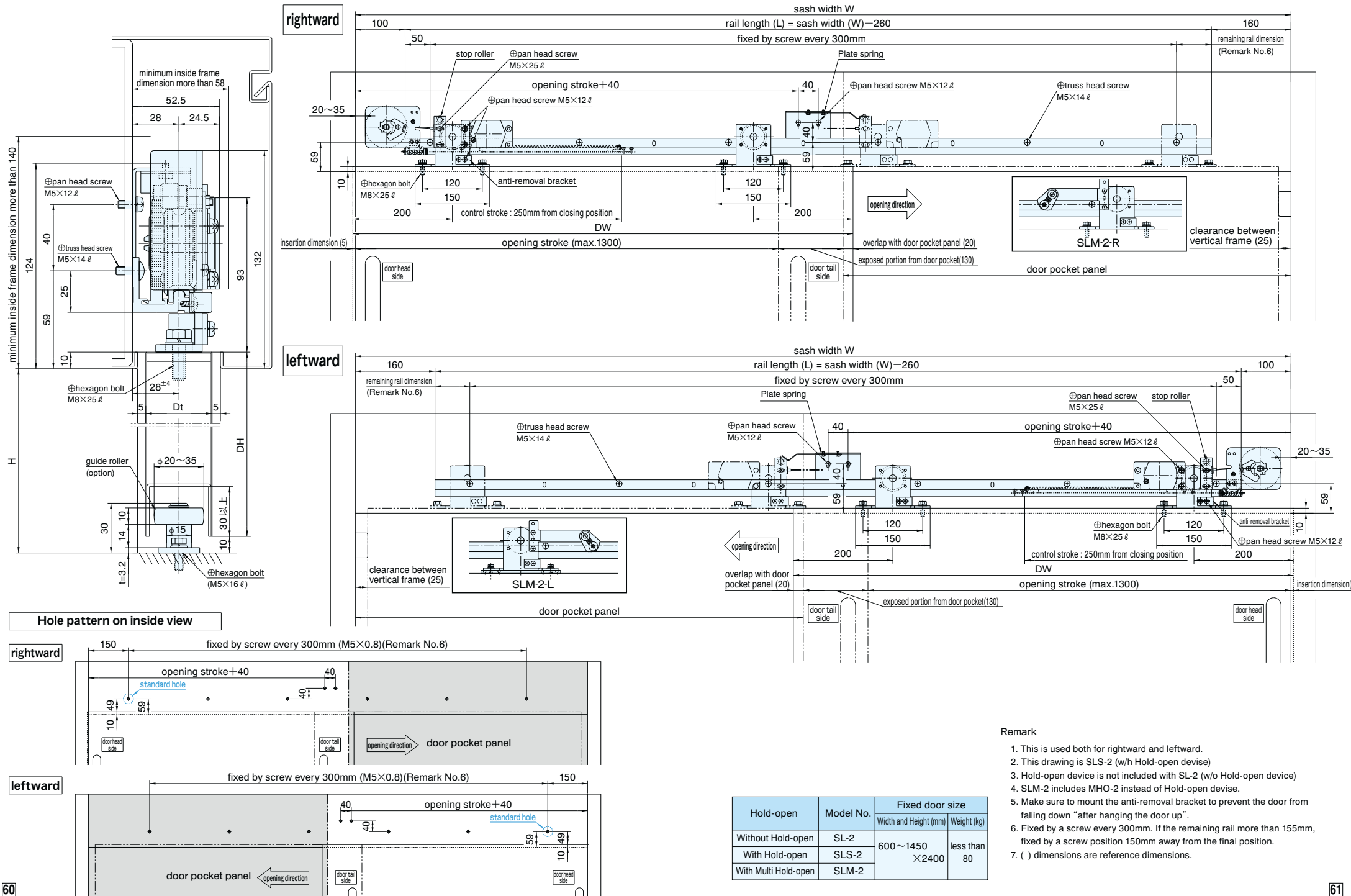
Door size DW (mm)		Necessary spacer quantity for hanger unit	
600 ~ 700		4pcs.	
701 ~ 800		5pcs.	
801 ~ 900		6pcs.	
901 ~ 1000		7pcs.	
1001 ~ 1100		8pcs.	
1101 ~ 1200		9pcs.	
1201 ~ 1300		10pcs.	
1301 ~ 1450		12pcs.	

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-1	600~1450 ×2400	10~80
With Hold-open	SLS-1		
With Multi Hold-open	SLM-1		

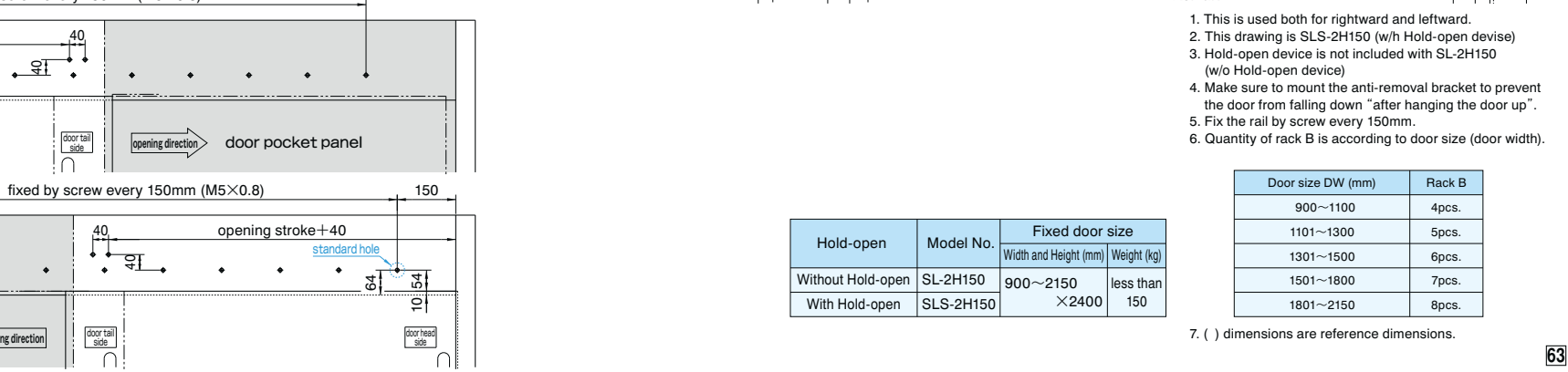
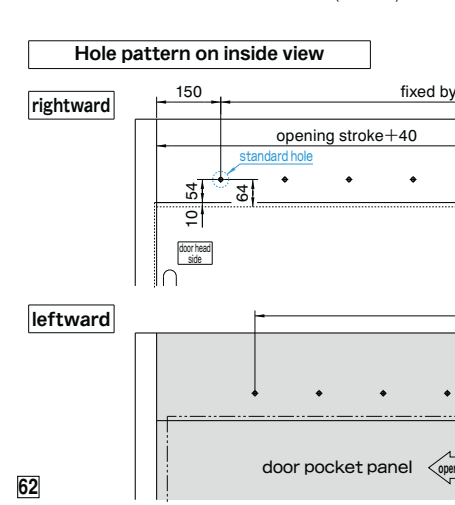
Remark

1. This is used both for rightward and leftward.
2. This drawing is SLS-1 (w/h Hold-open device)
3. Hold-open device is not included with SL-1 (w/o Hold-open device)
4. SLM-1 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 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.
7. Refer to Table 1 necessary spacer quantity for hanger unit.
8. () dimensions are reference dimensions.

SL-2 WITH DRIVE DEVICE SINGLE OPENING FOR STEEL DOOR



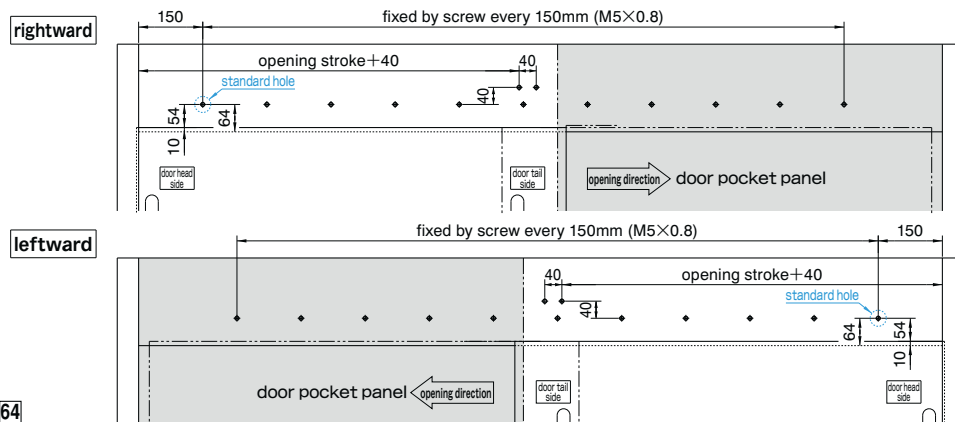
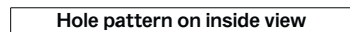
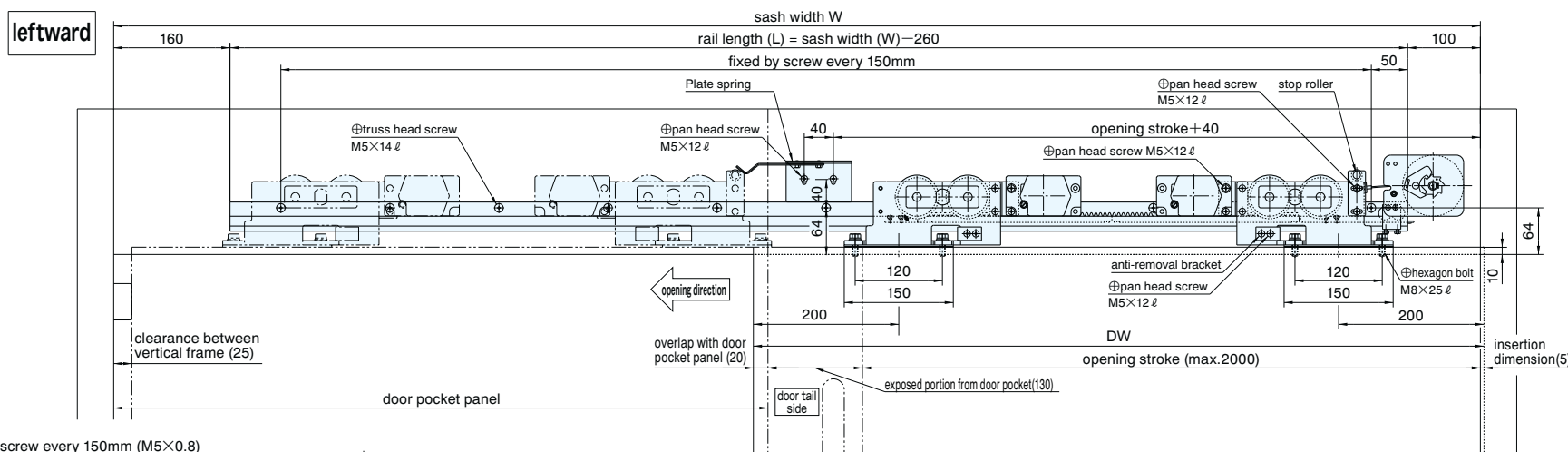
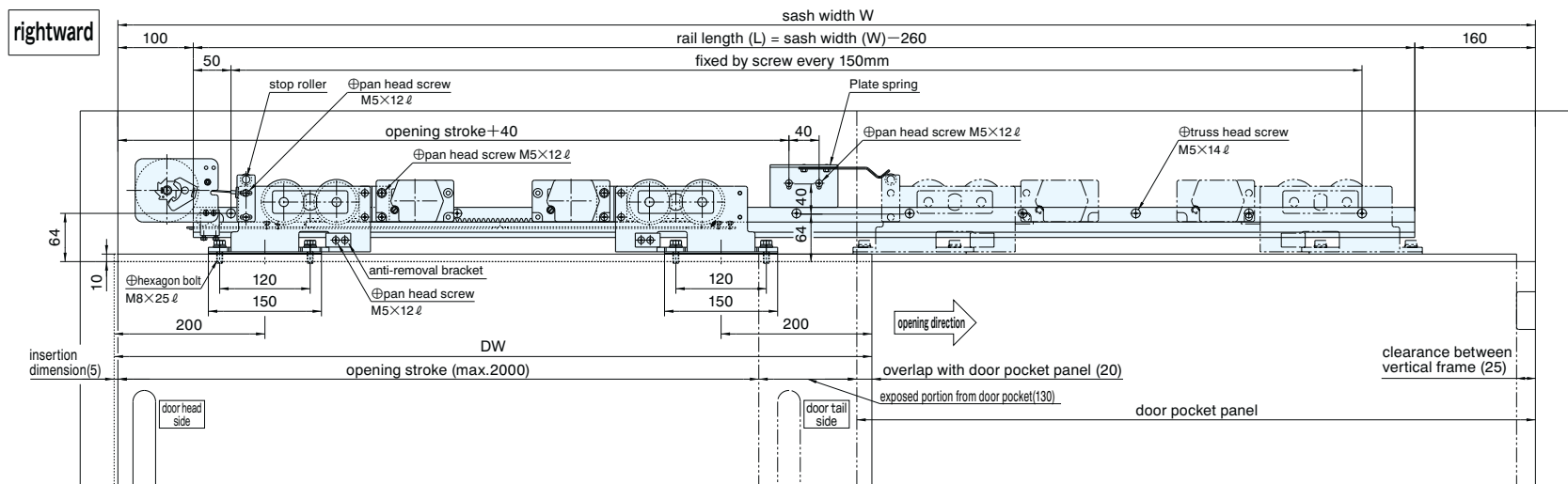
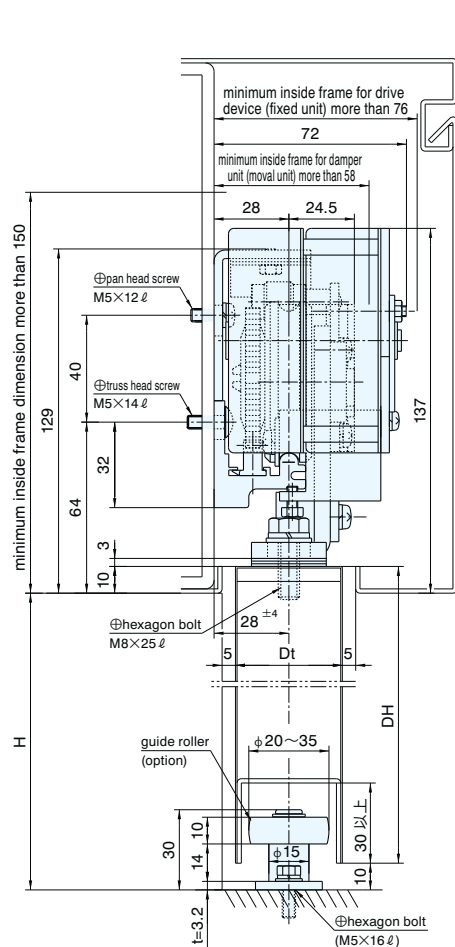
SL-2H150 WITH DRIVE DEVICE SINGLE OPENING FOR STEEL DOOR



7. () dimensions are reference dimensions.

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

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



Remark

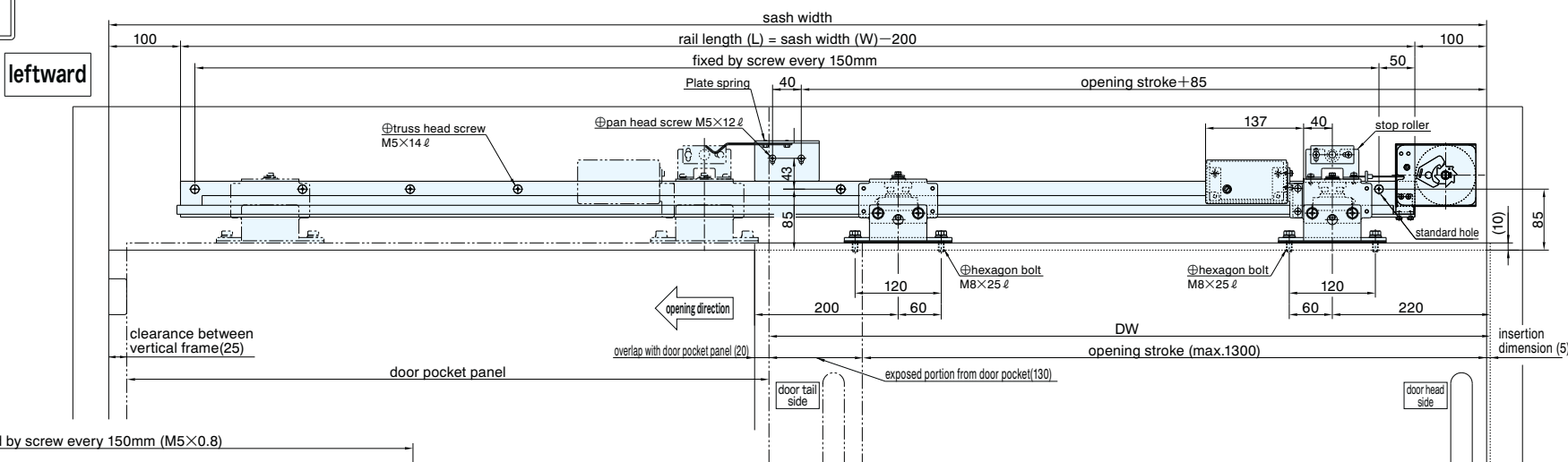
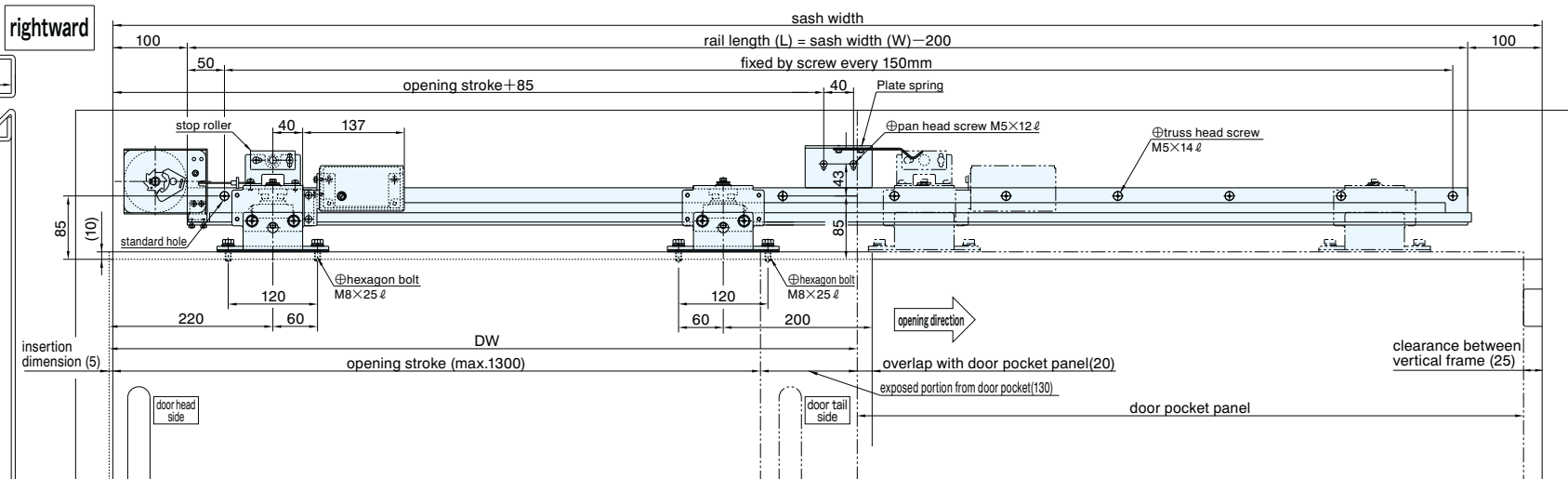
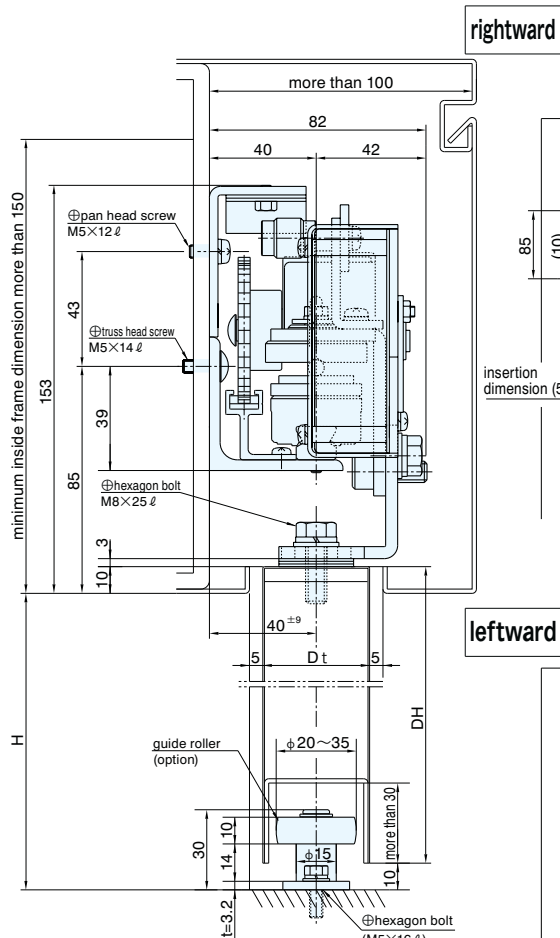
1. This is used both for rightward and leftward.
2. This drawing is SLS-2H200 (w/h Hold-open devise)
3. Hold-open device is not included with SL-2H200 (w/o Hold-open device)
4. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
5. Fix the rail 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	200

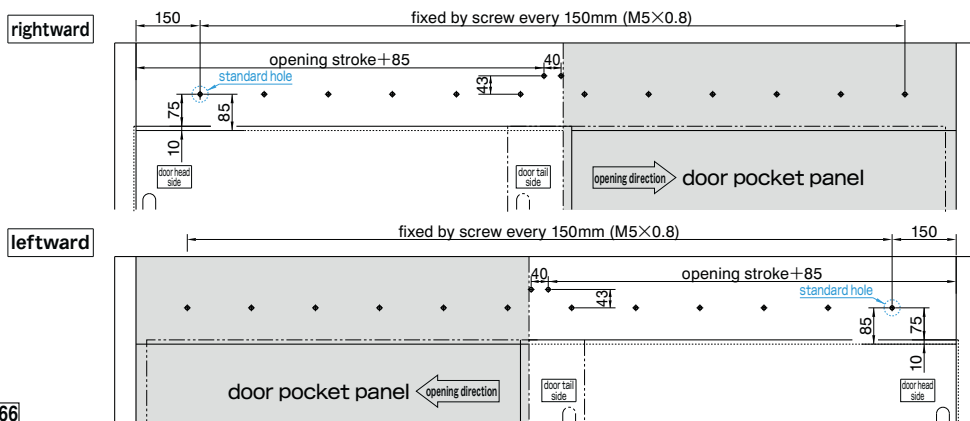
Door size DW (mm)	Rack B
1300~1500	6pcs.
1501~1800	7pcs.
1801~2150	8pcs.

7. () dimensions are reference dimensions.

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



Hole pattern on inside view

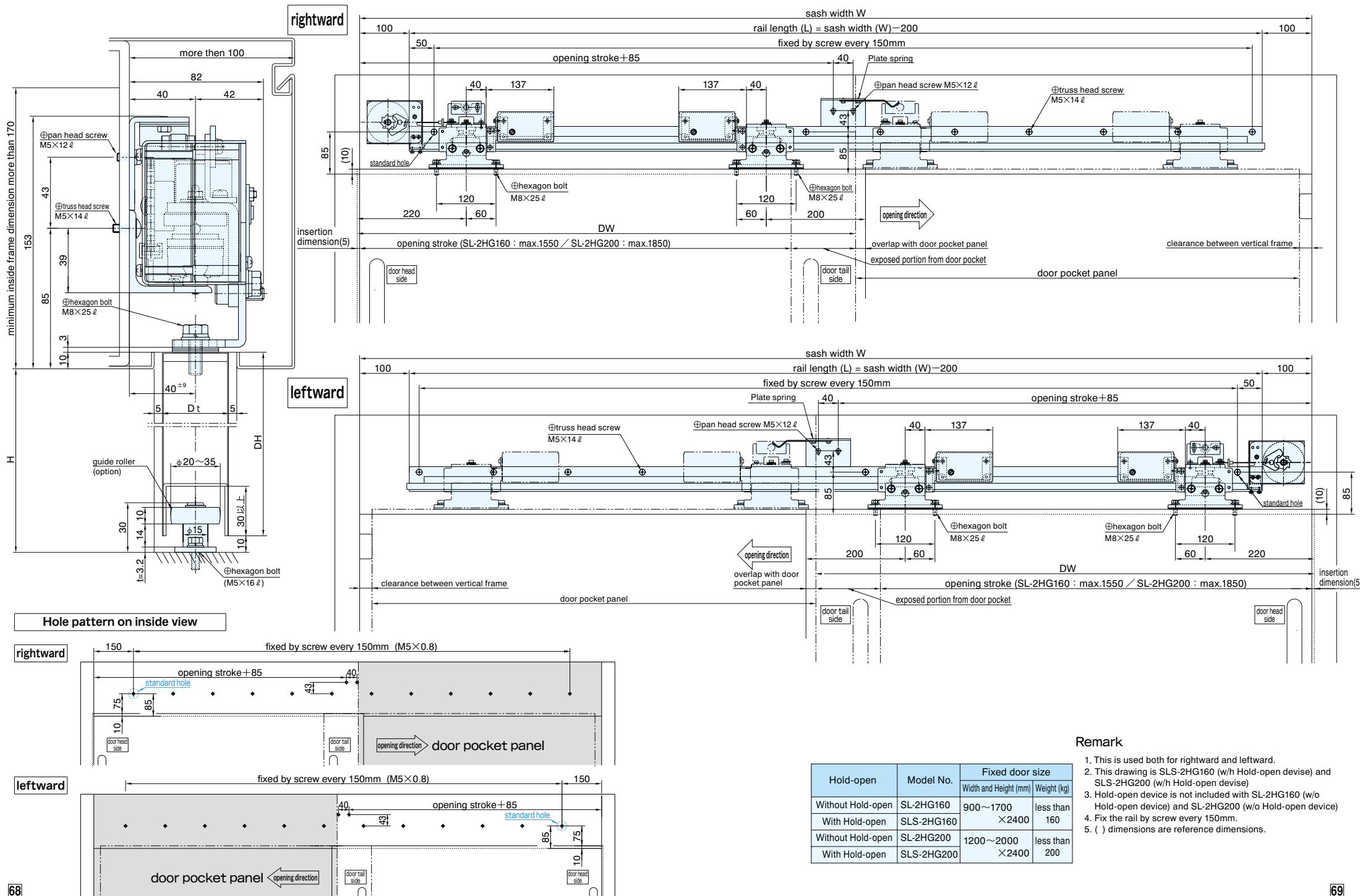


Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2HG120	900~1450	less than 120
With Hold-open	SLS-2HG120	×2400	

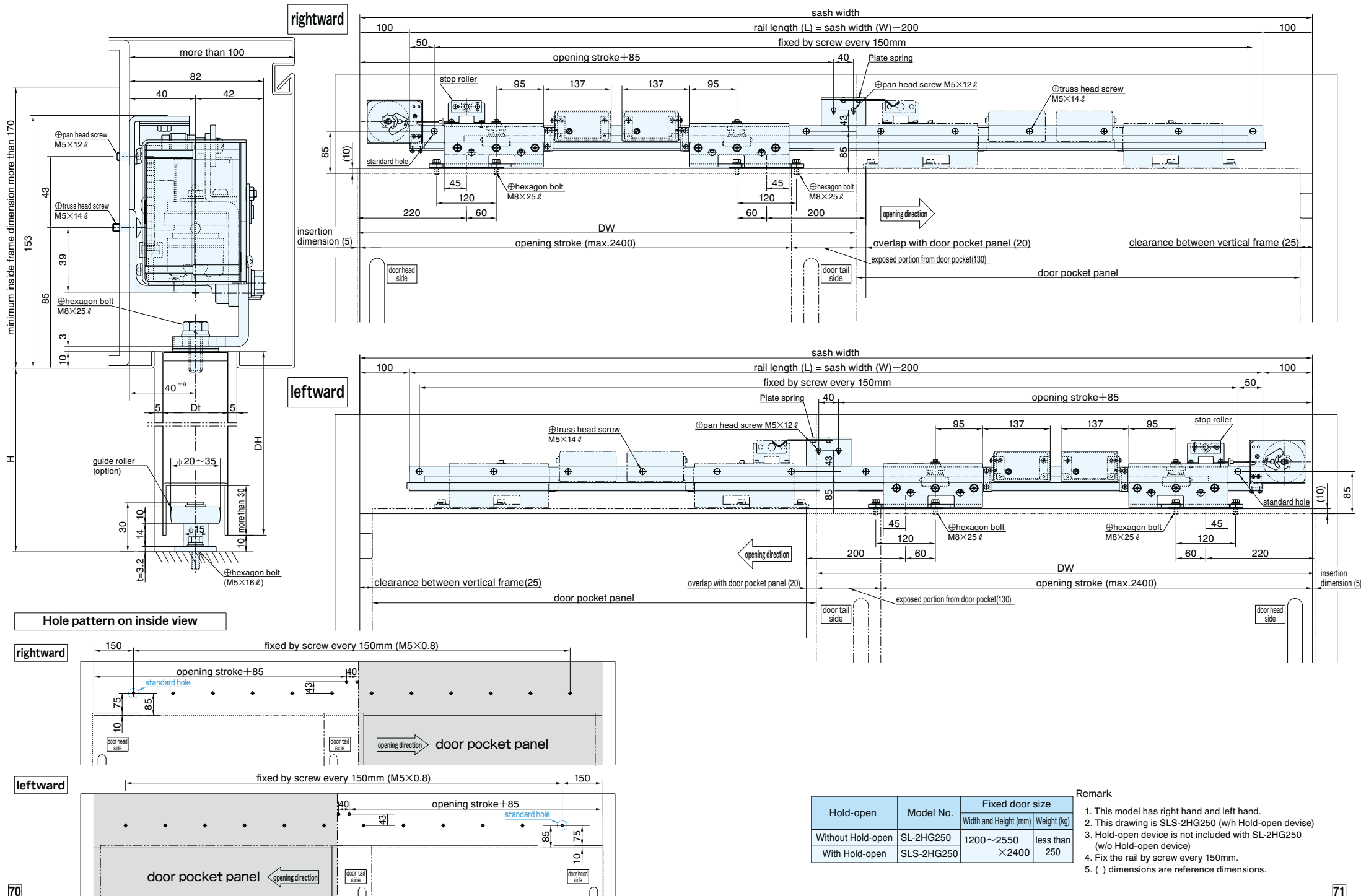
Remark

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.

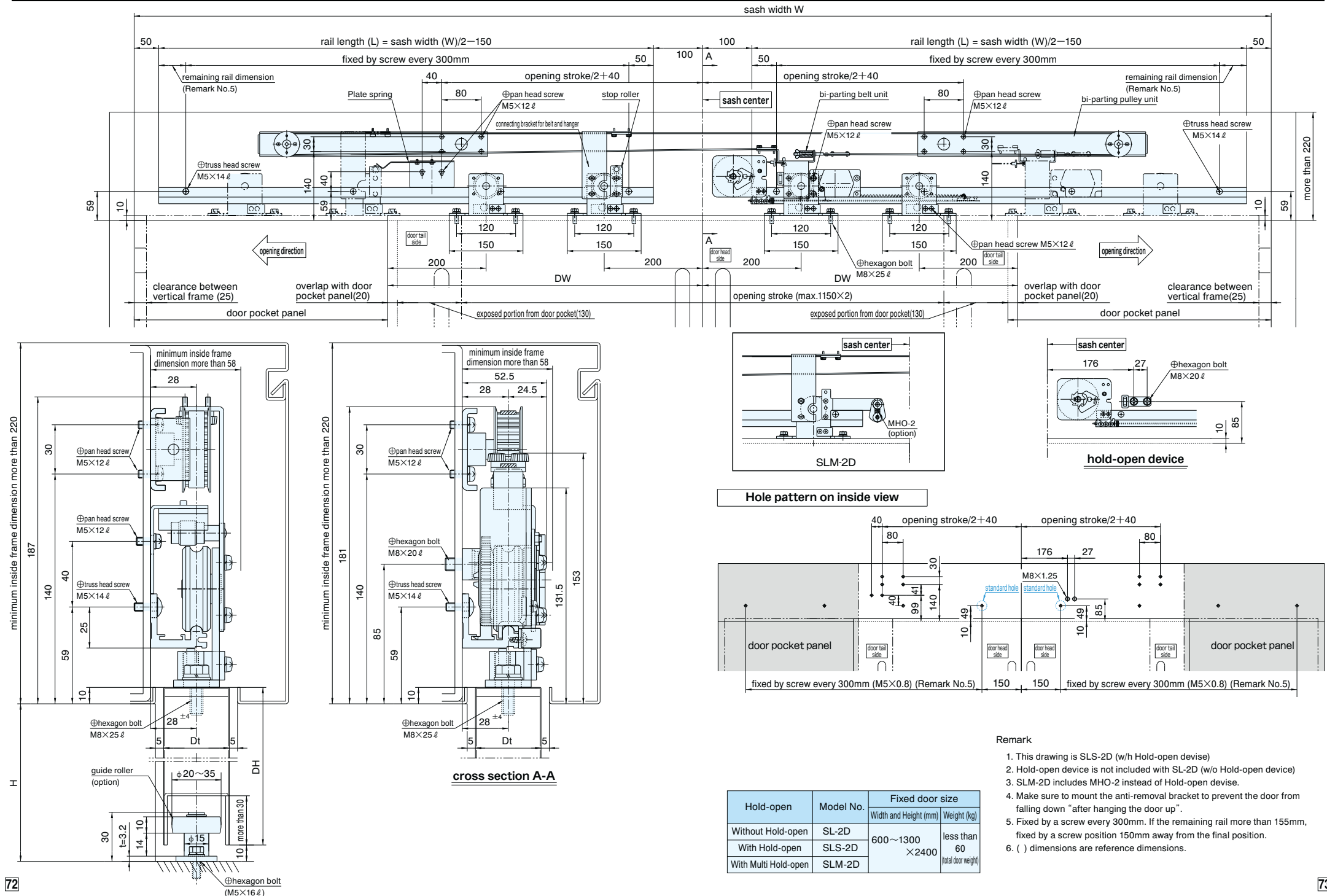
SL-2HG160/200 WITH DRIVE DEVICE SINGLE OPENING FOR STEEL DOOR



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

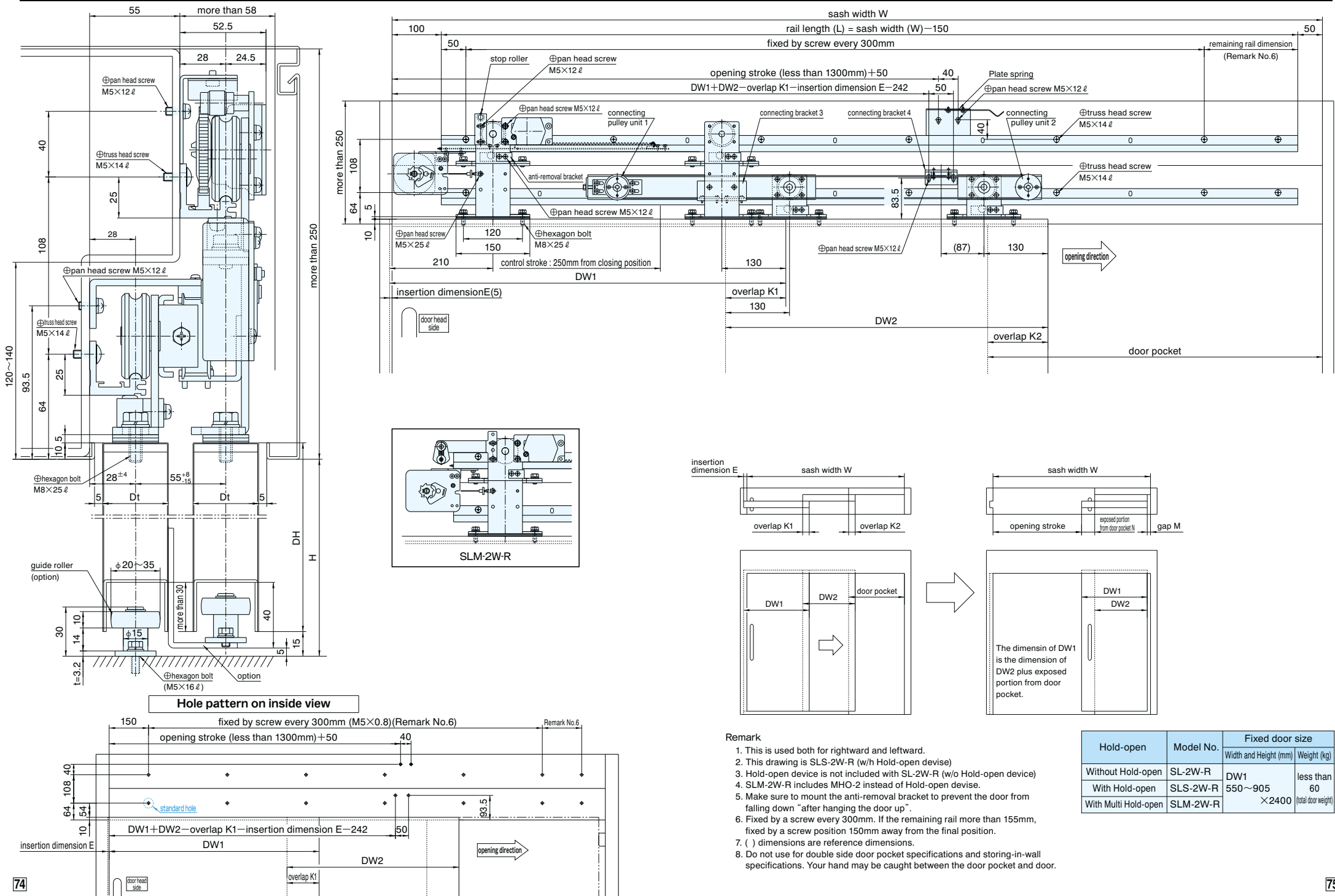


SL-2D WITH DRIVE DEVICE BI-PARTING FOR STEEL DOOR

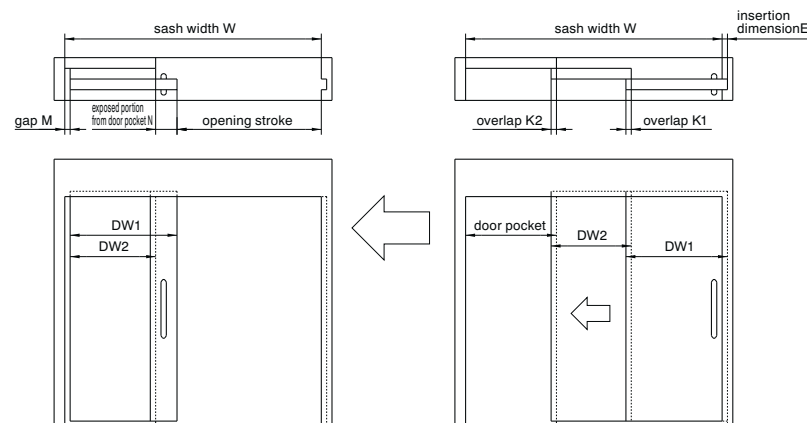
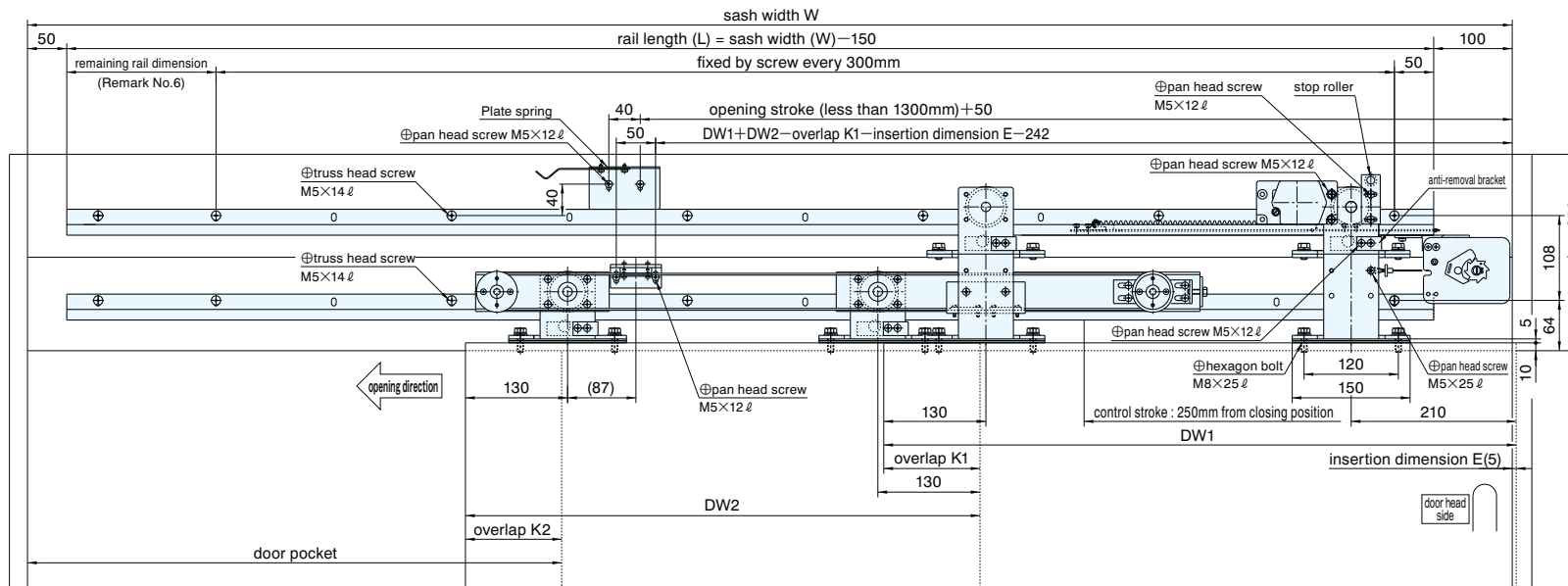


Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2D	600~1300 ×2400	less than 60 (total door weight)
With Hold-open	SLS-2D		
With Multi Hold-open	SLM-2D		

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



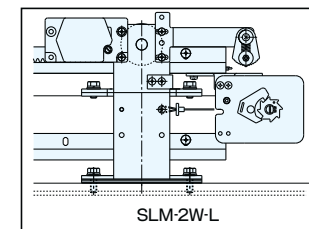
SL-2W-L WITH DRIVE DEVICE TELESCOPIA (LEFTWARD) FOR STEEL DOOR



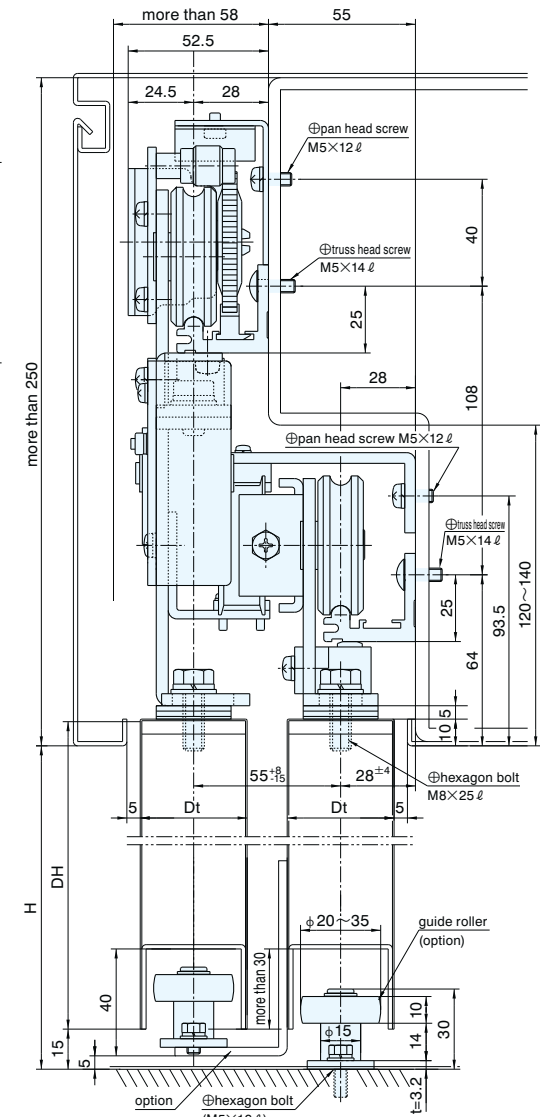
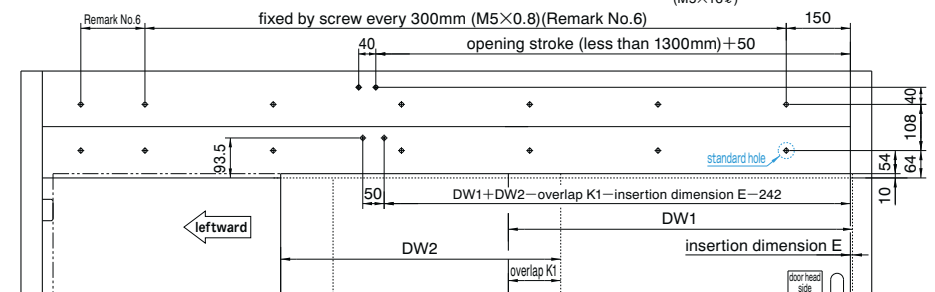
Remark

1. This is used both for rightward and leftward.
2. This drawing is SLS-2W-L (w/h Hold-open device)
3. Hold-open device is not included with SL-2W-L (w/o Hold-open device)
4. SLM-2W-L 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.
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.

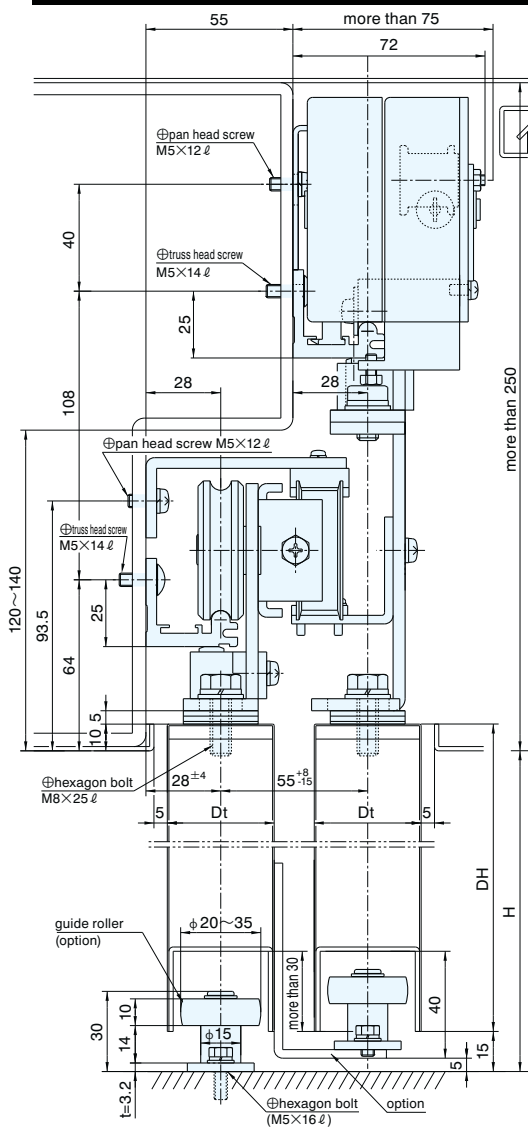
Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2W-L	DW1	less than 60 total door weight
With Hold-open	SLS-2W-L	550~905	
With Multi Hold-open	SLM-2W-L	×2400	



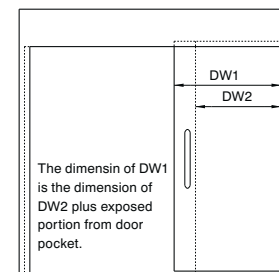
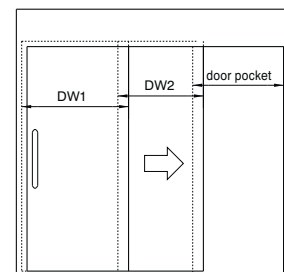
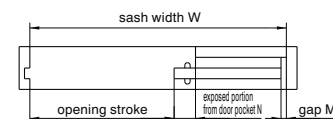
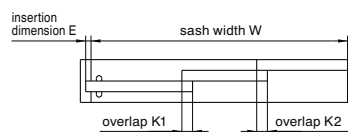
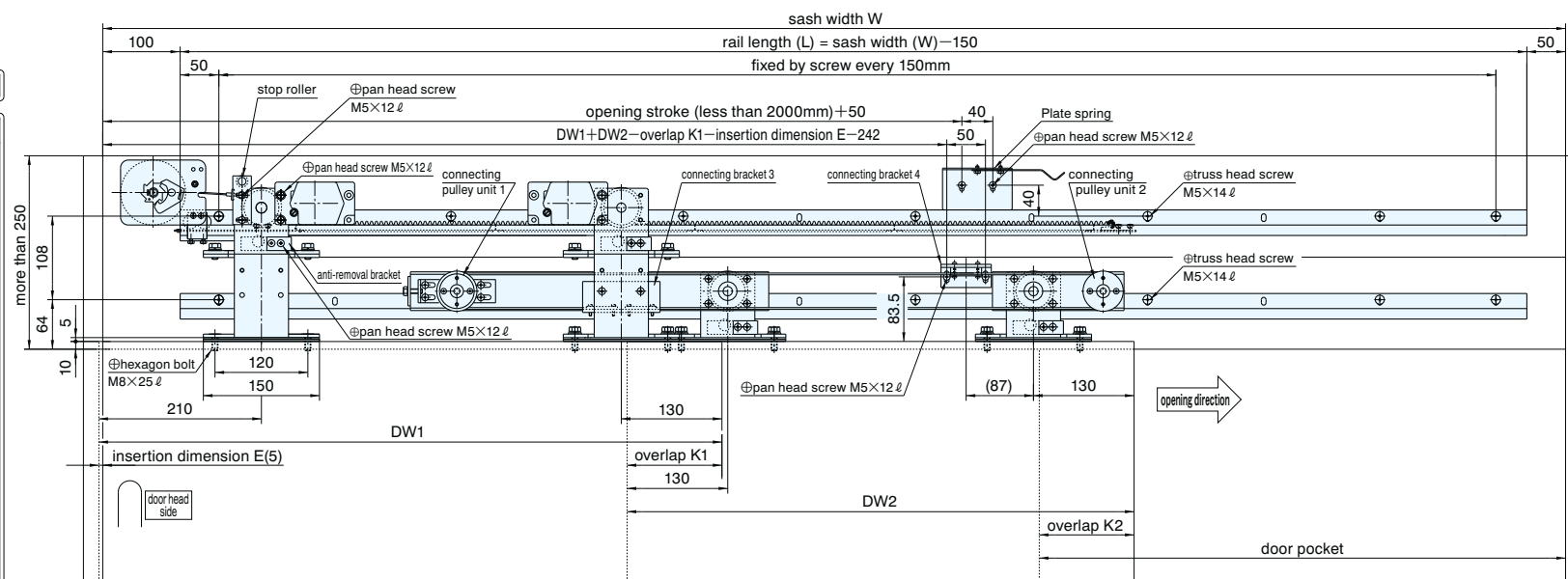
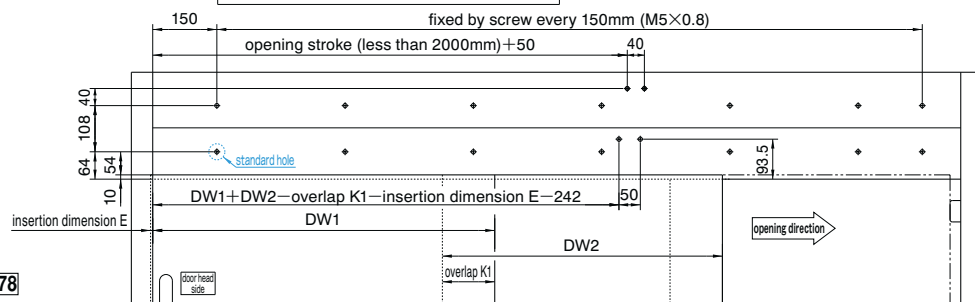
Hole pattern on inside view



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



Hole pattern on inside view



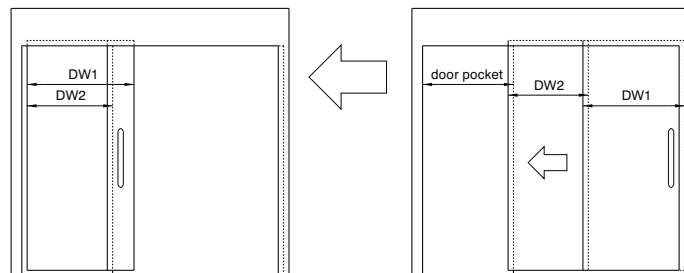
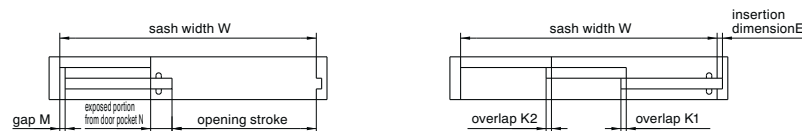
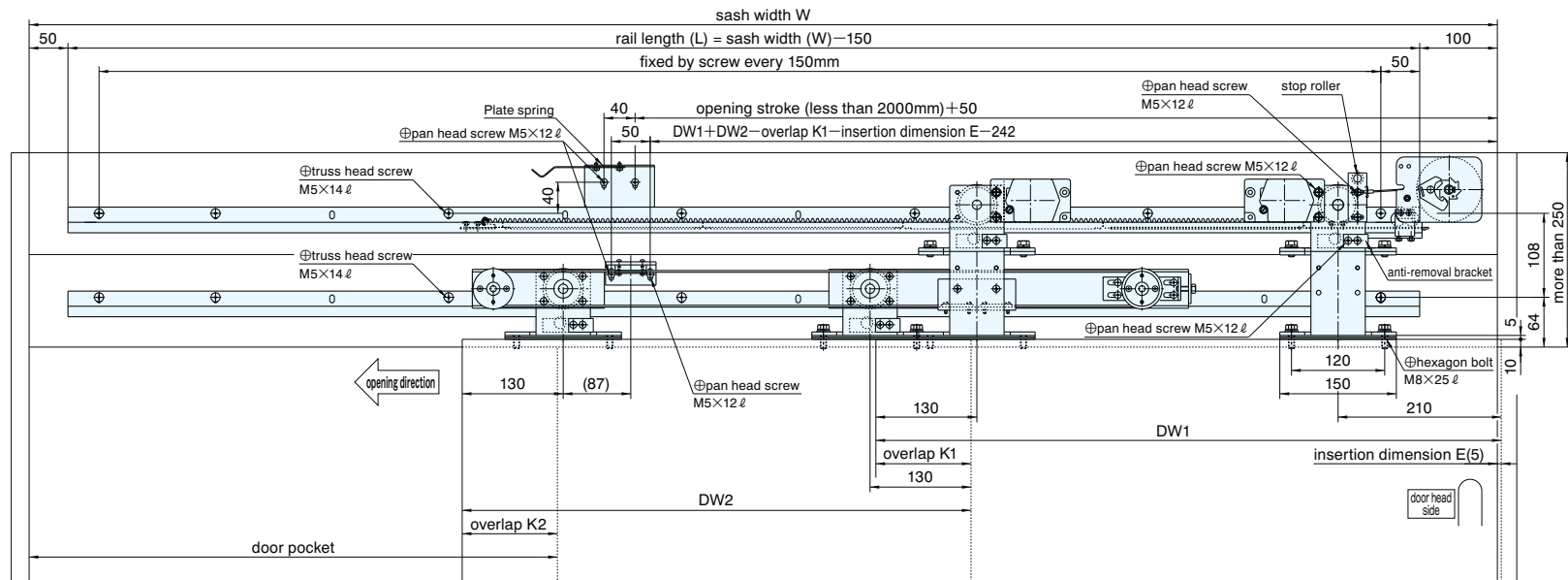
Door size DW(mm)	Rack E
800~ 900	4pcs.
901~1000	5pcs.
1001~1100	6pcs.
1101~1200	7pcs.
1201~1255	8pcs.

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 SLS-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-2HW150-L WITH DRIVE DEVICE TELESCOPIA (LEFTWARD) FOR STEEL DOOR

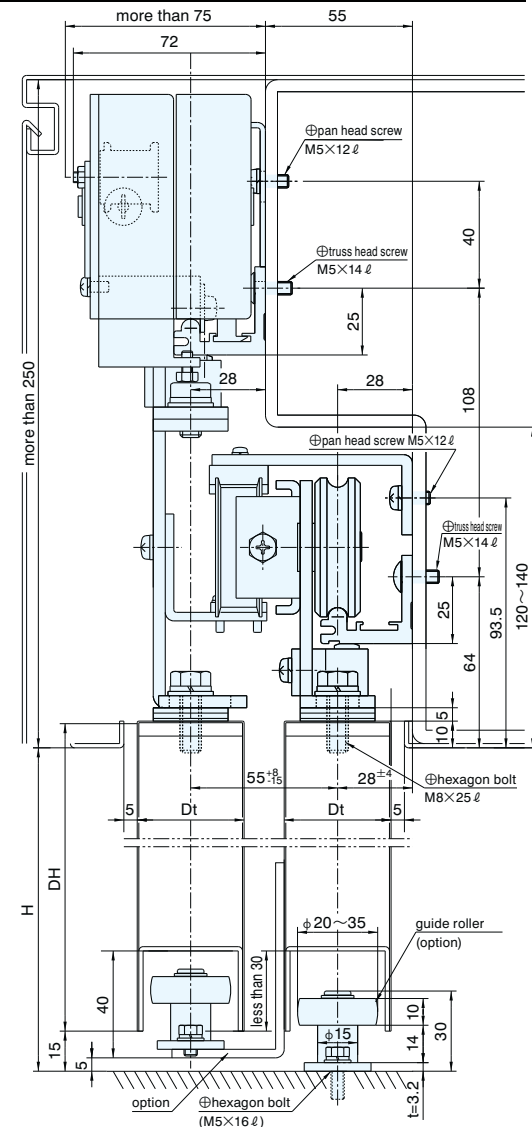


Door size DW (mm)	Rack B
800 ~ 900	4pcs.
901 ~ 1000	5pcs.
1001 ~ 1100	6pcs.
1101 ~ 1200	7pcs.
1201 ~ 1255	8pcs.

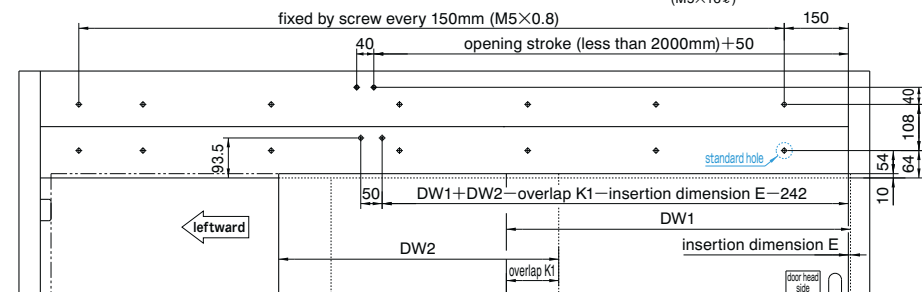
Remark

1. This is used both for rightward and leftward.
2. This drawing is SLS-2HW150-L (w/h Hold-open device)
3. Hold-open device is not included with SL-2HW150-L (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.

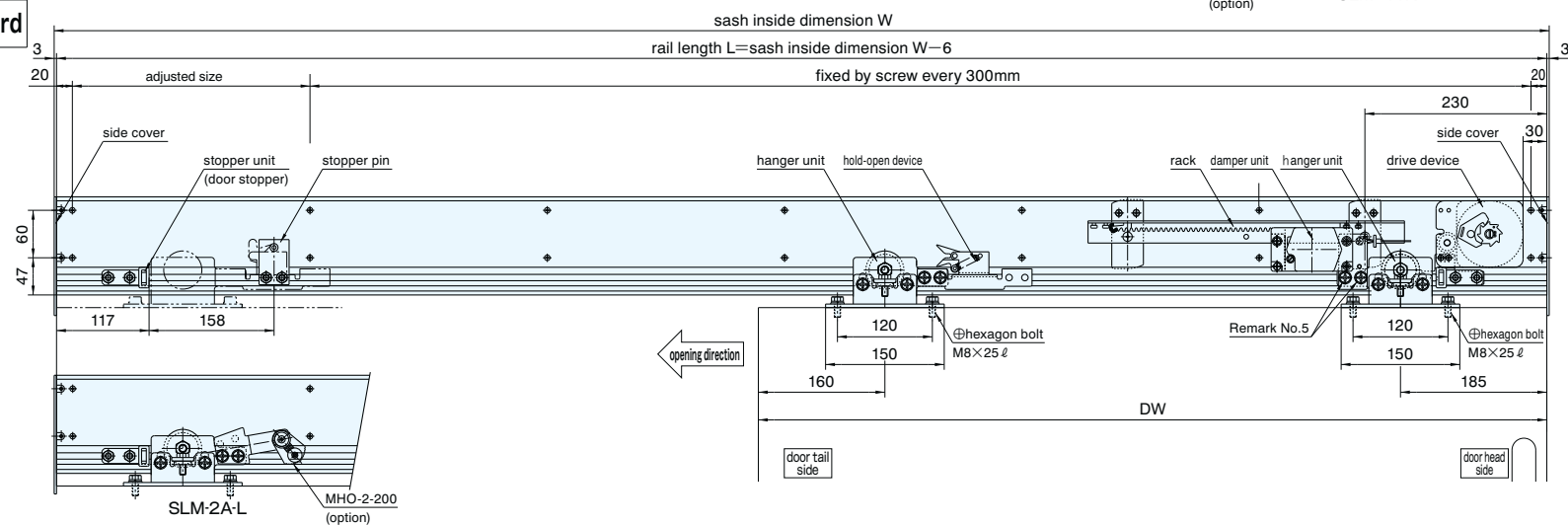
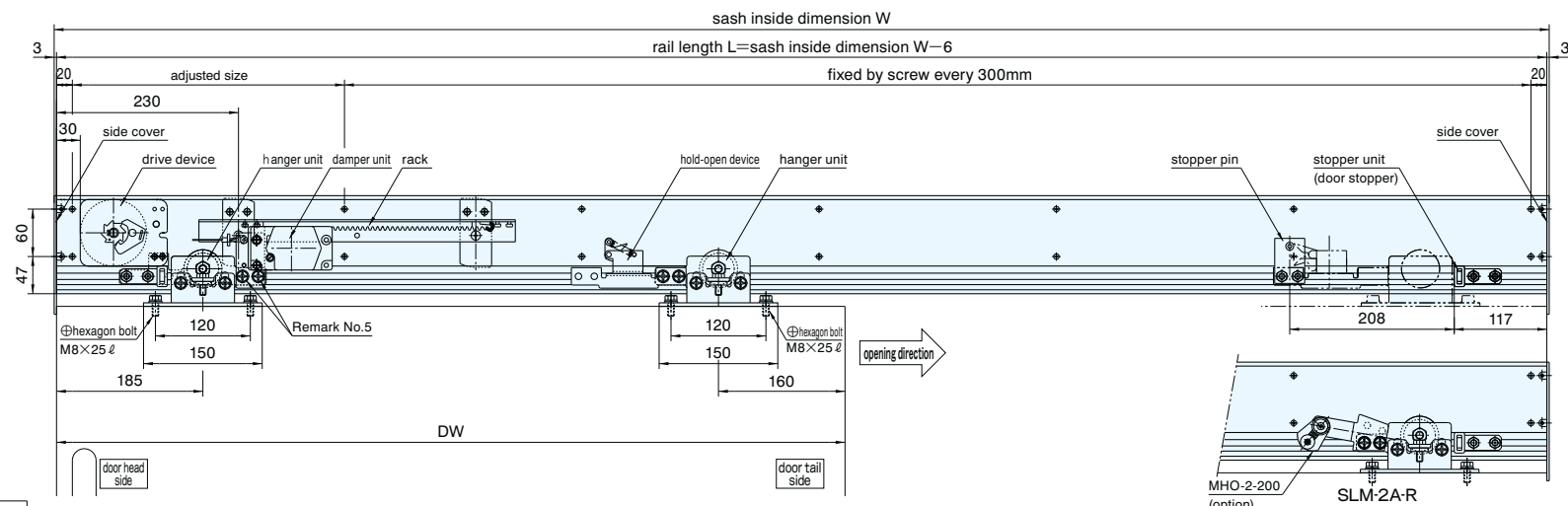
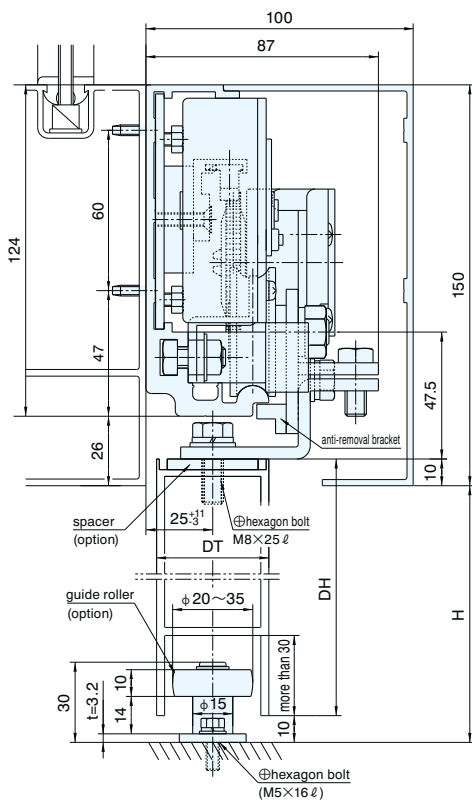
Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2HW150-L	DW1 800 ~ 1255	less than 150
With Hold-open	SLS-2HW150-L	×2400	(total door weight)



Hole pattern on inside view



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

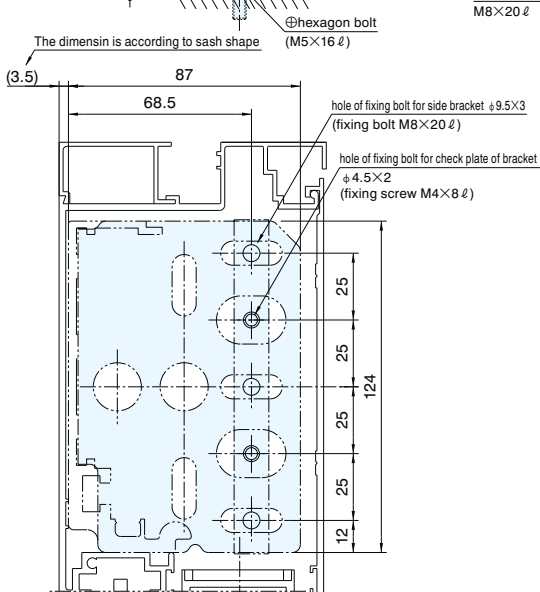
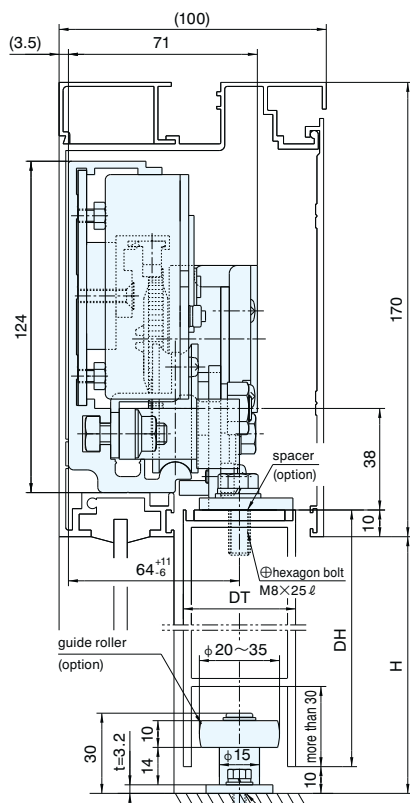


Remark

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 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.

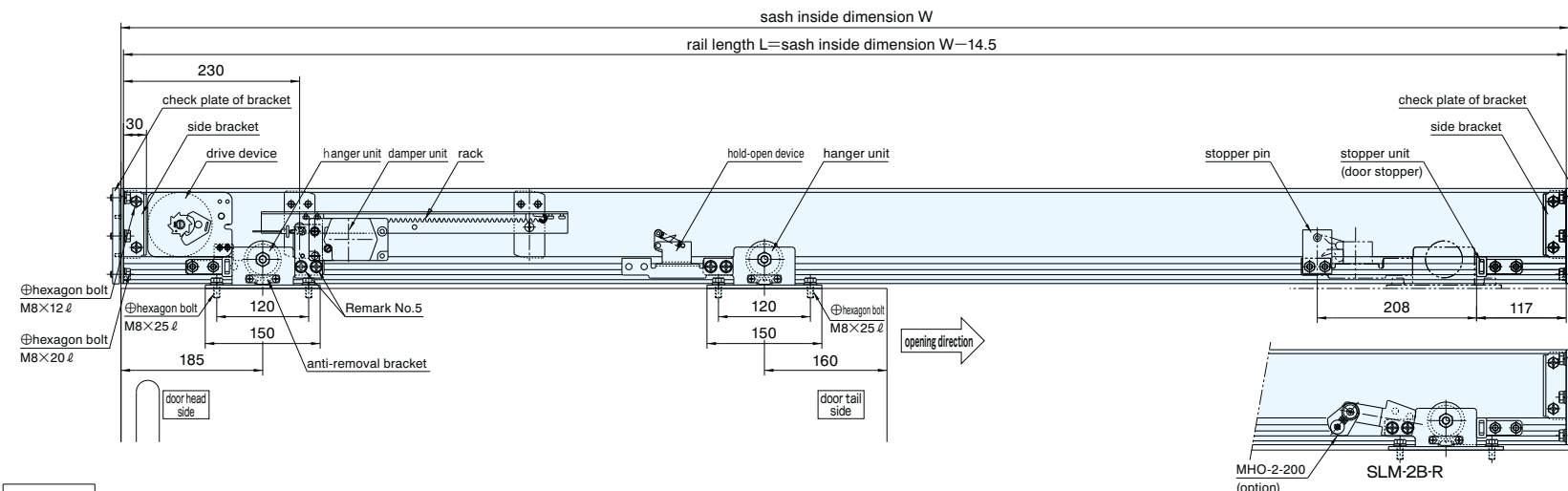
Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2A	700~1450 ×2400	less than 50
With Hold-open	SLS-2A		
With Multi Hold-open	SLM-2A		

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

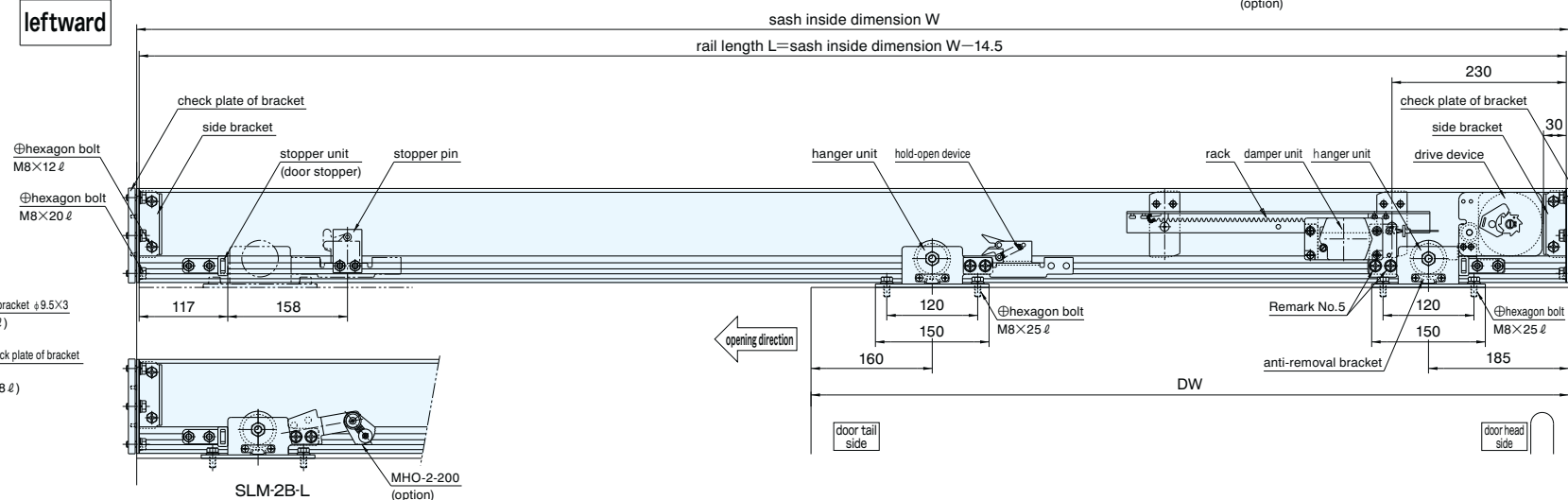


Side bracket

rightward



leftward

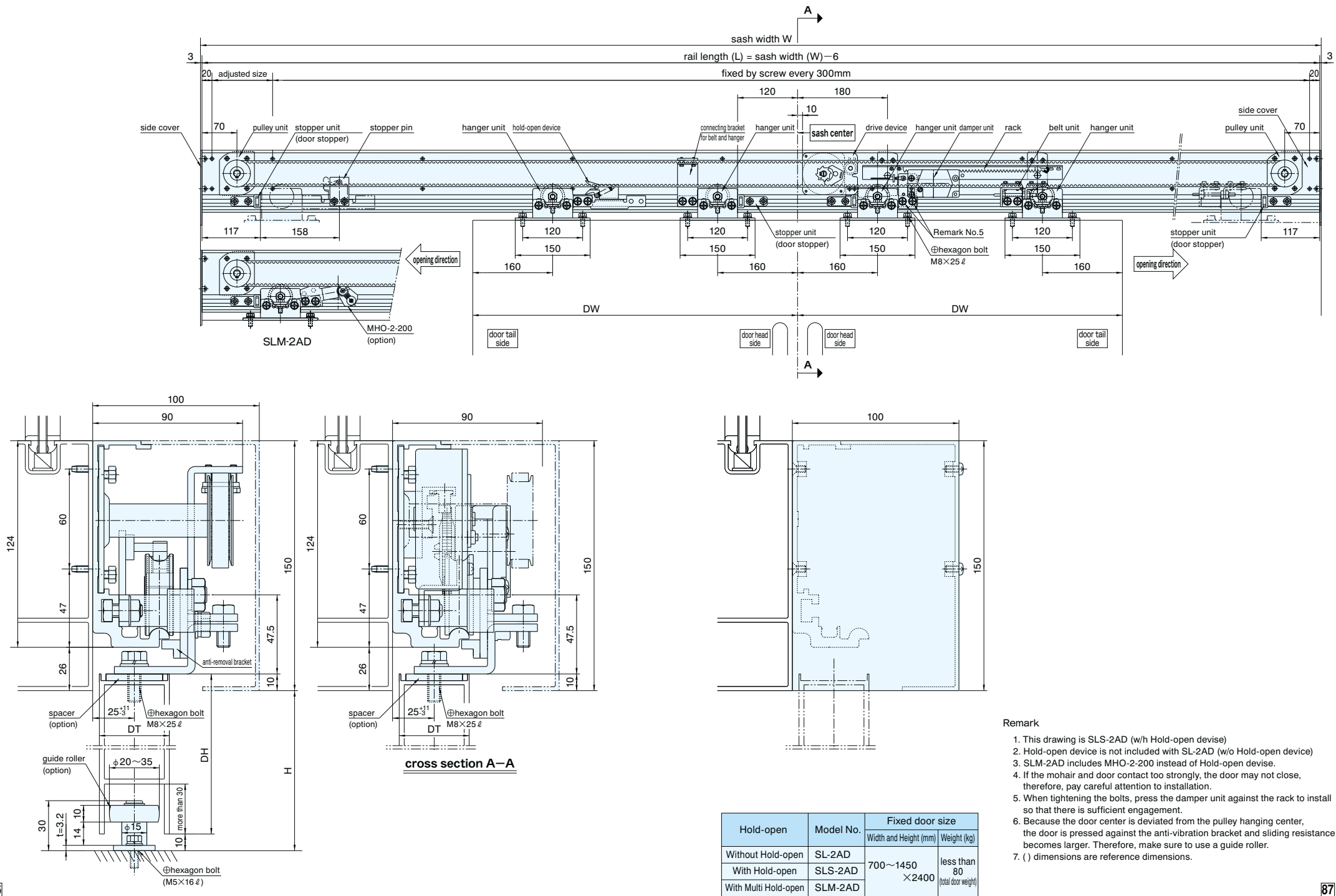


Remark

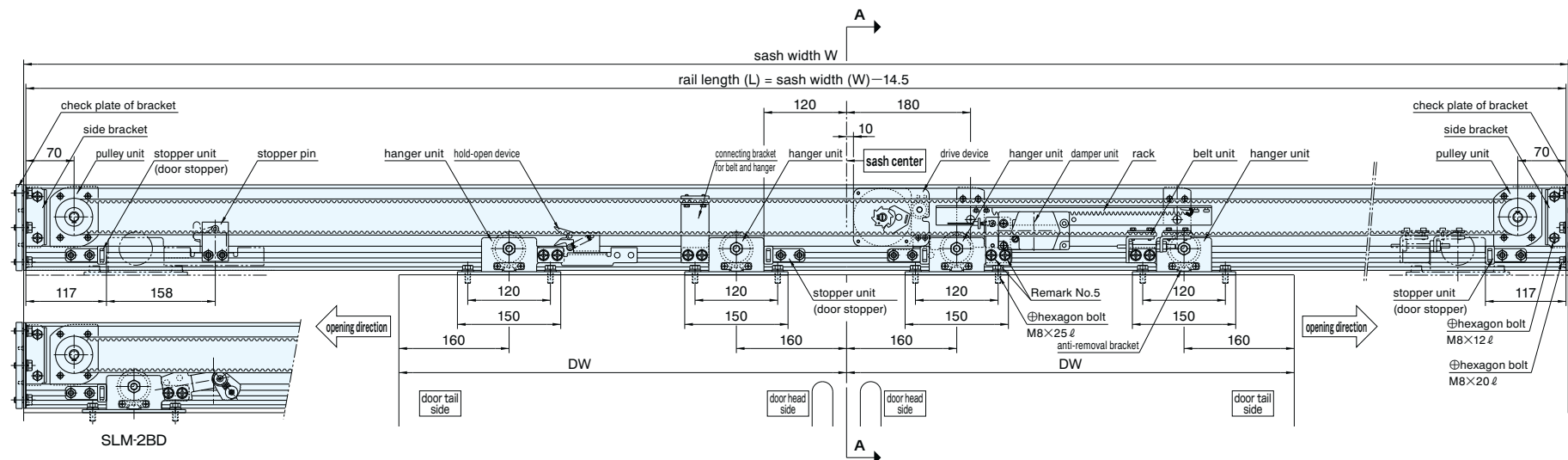
1. This drawing is SLS-2B (w/h Hold-open devise)
2. Hold-open device is not included with SL-2B (w/o Hold-open device)
3. SLM-2B includes MHO-2-200 instead of Hold-open devise.
4. If the mohair and door contact too strongly, the door may not close, therefore, pay careful attention to installation.
5. 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		

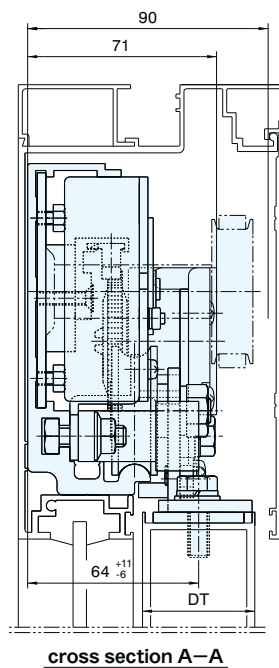
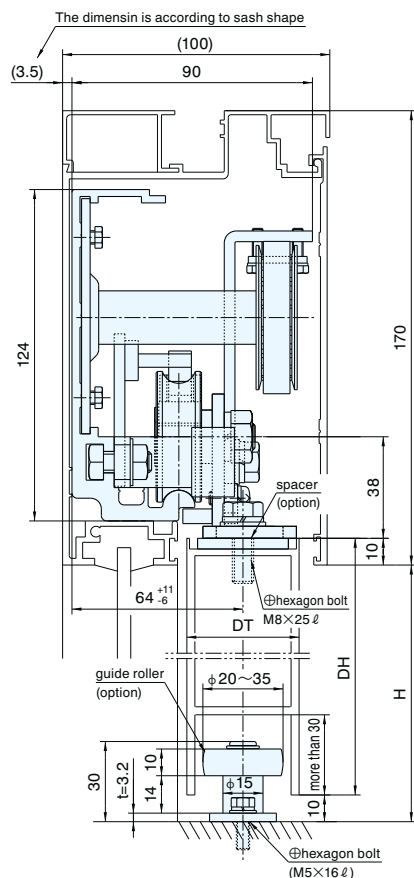
SL-2AD WITH DRIVE DEVICE BI-PARTING FOR ALUMINUM DOOR



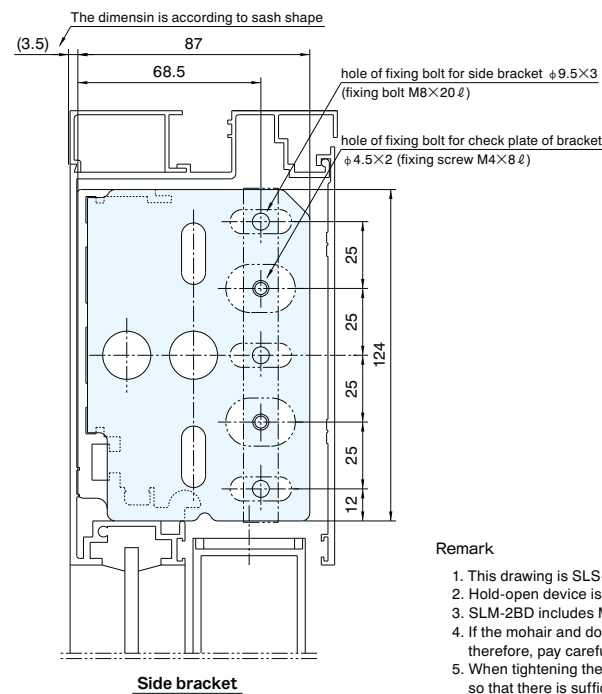
SL-2BD WITH DRIVE DEVICE BI-PARTING FOR ALUMINUM DOOR



SLM-2BD



cross section A-A



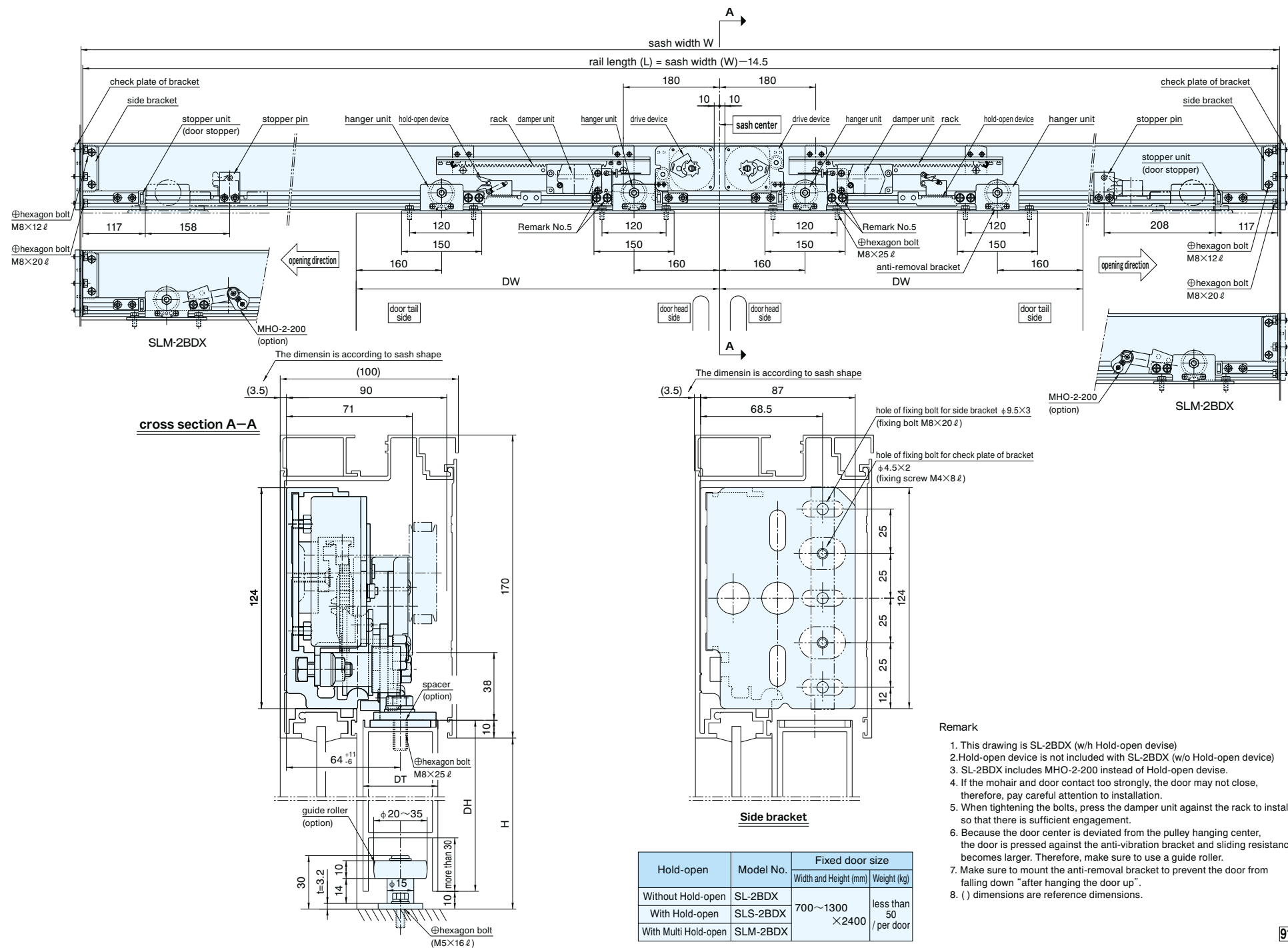
Side bracket

Remark

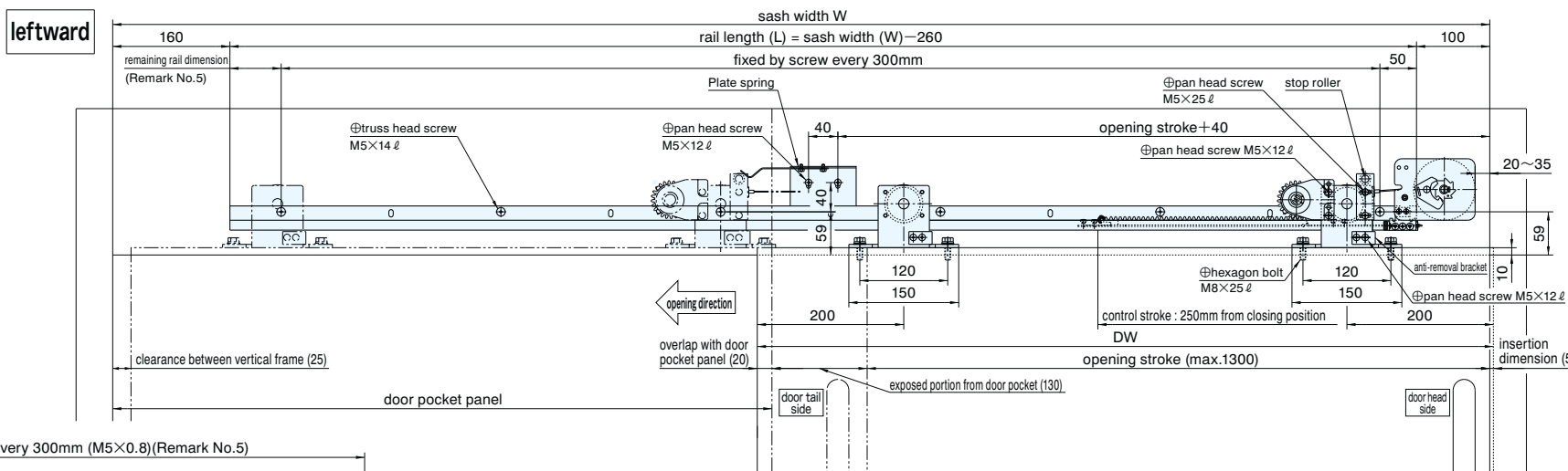
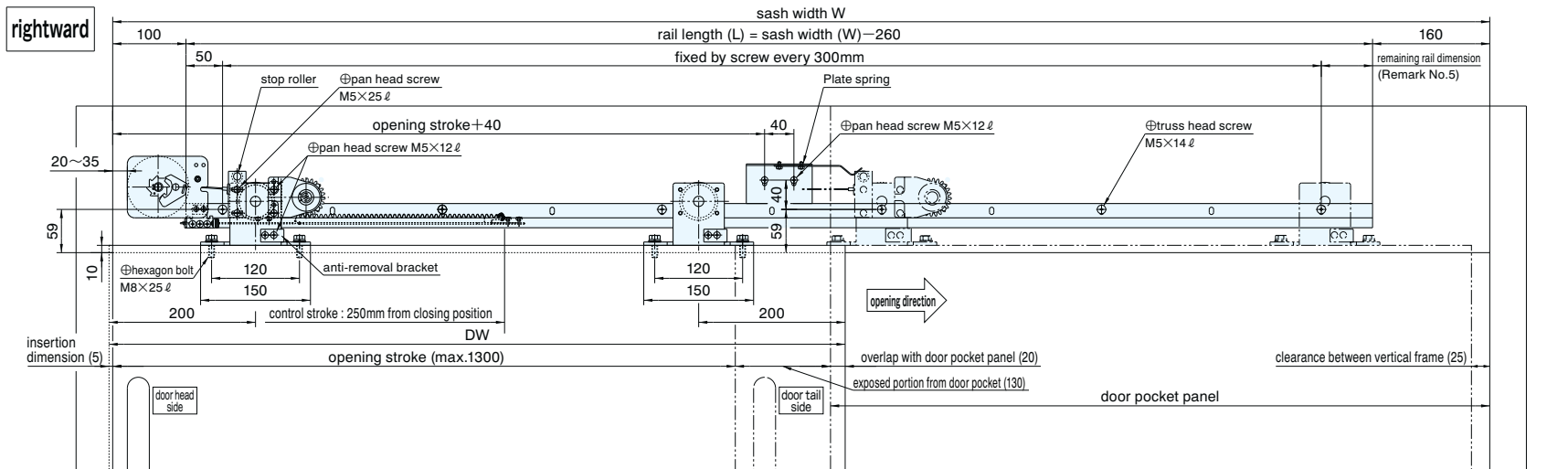
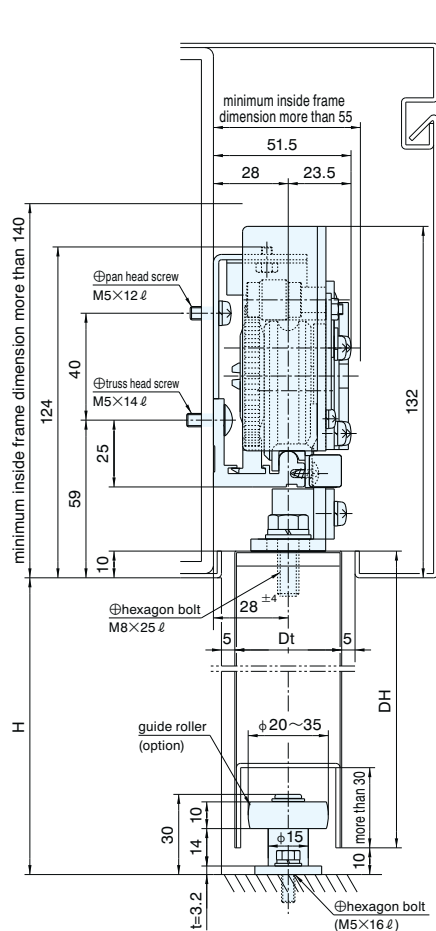
1. This drawing is SLS-2BD (w/h Hold-open devise)
2. Hold-open device is not included with SL-2BD (w/o Hold-open device)
3. SLM-2BD includes MHO-2-200 instead of Hold-open devise.
4. If the mohair and door contact too strongly, the door may not close, therefore, pay careful attention to installation.
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 x2400	less than 80 (total door weight)
With Hold-open	SLS-2BD		
With Multi Hold-open	SLM-2BD		

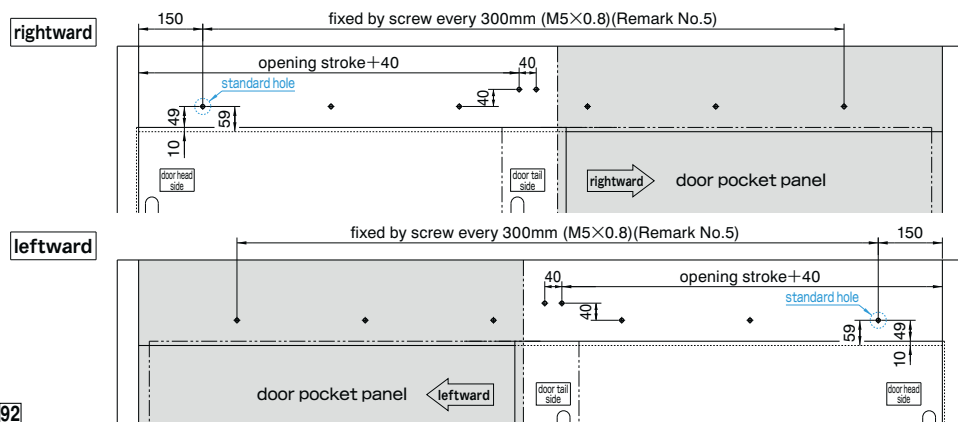
SL-2BDX WITH DRIVE DEVICE BI-PARTING FOR ALUMINUM DOOR



SL-2AQ WITH DRIVE DEVICE SINGLE FOR MOISTY PLACE



Hole pattern on inside view

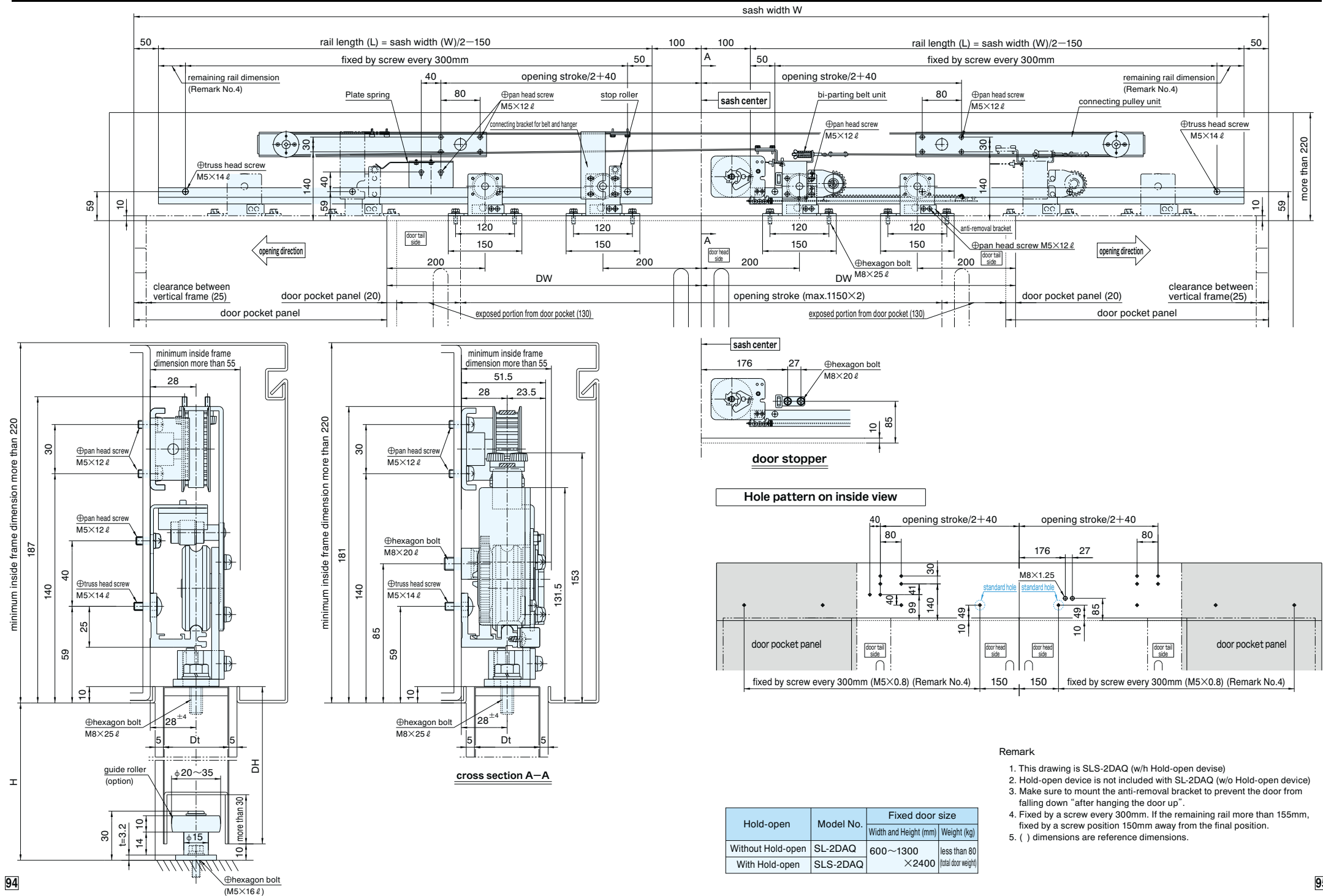


Remark

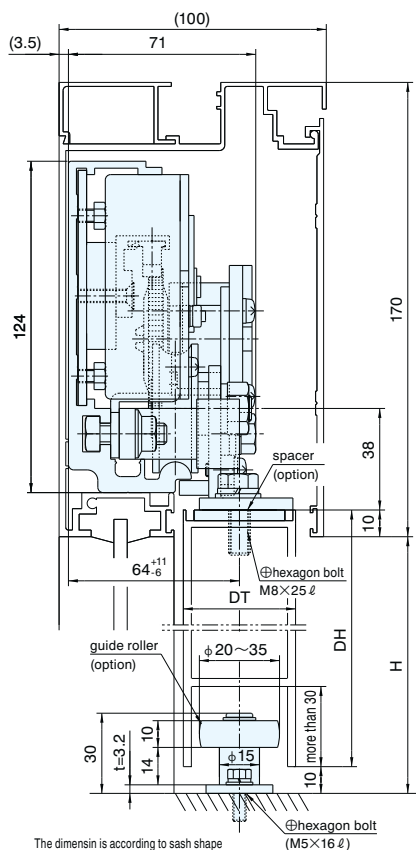
1. This is used both for rightward and leftward.
2. This drawing is SLS-2AQ (w/h Hold-open devise)
3. Hold-open device is not included with SL-2AQ (w/o Hold-open device)
4. Make sure to mount the anti-removal bracket to prevent the door from falling down "after hanging the door up".
5. Fixed by a screw 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
With Hold-open	SLS-2AQ	×2400	80

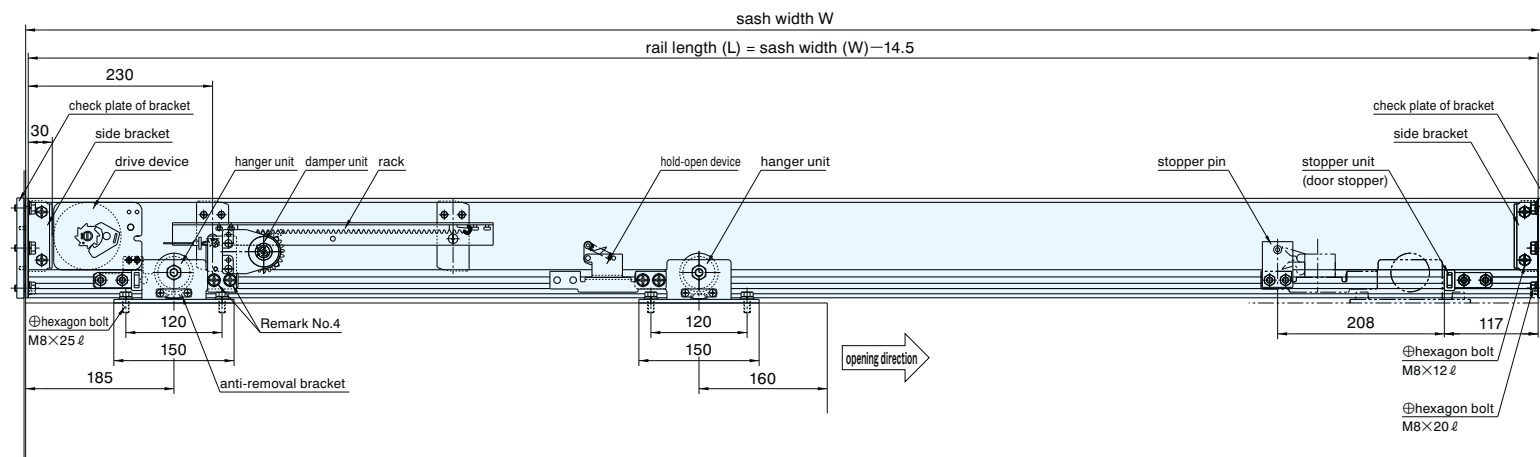
SL-2DAQ WITH DRIVE DEVICE BI-PARTING FOR MOISTY PLACE



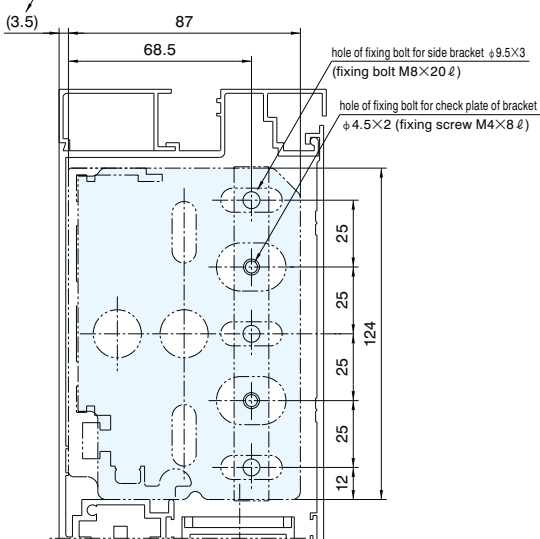
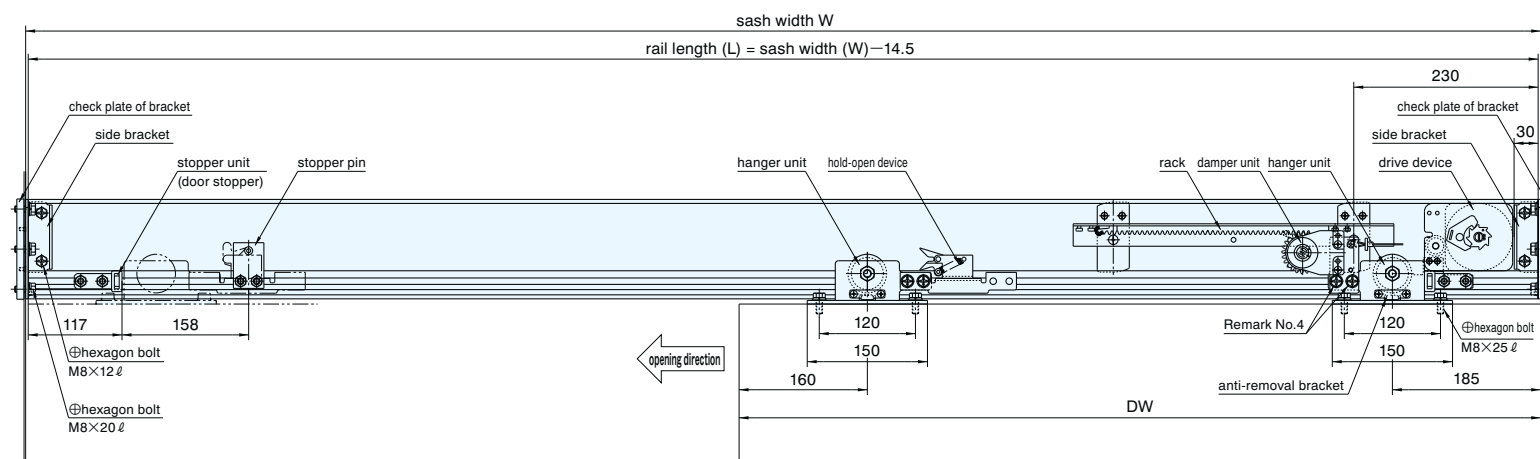
SL-2BAQ WITH DRIVE DEVICE SINGLE FOR MOISTY PLACE



rightward



leftward

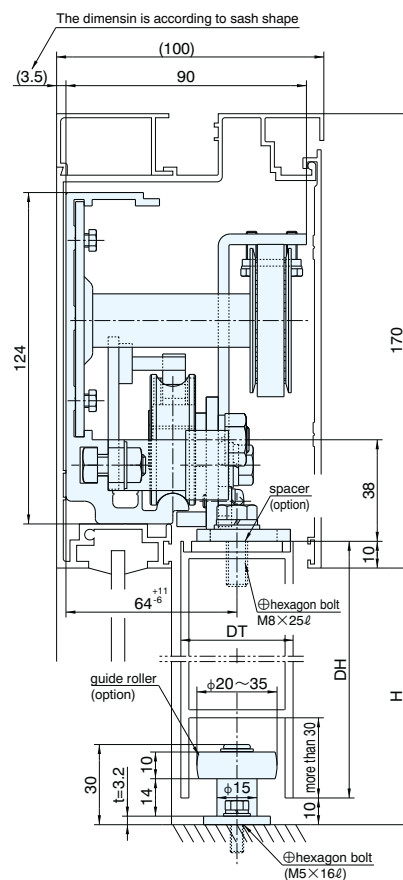
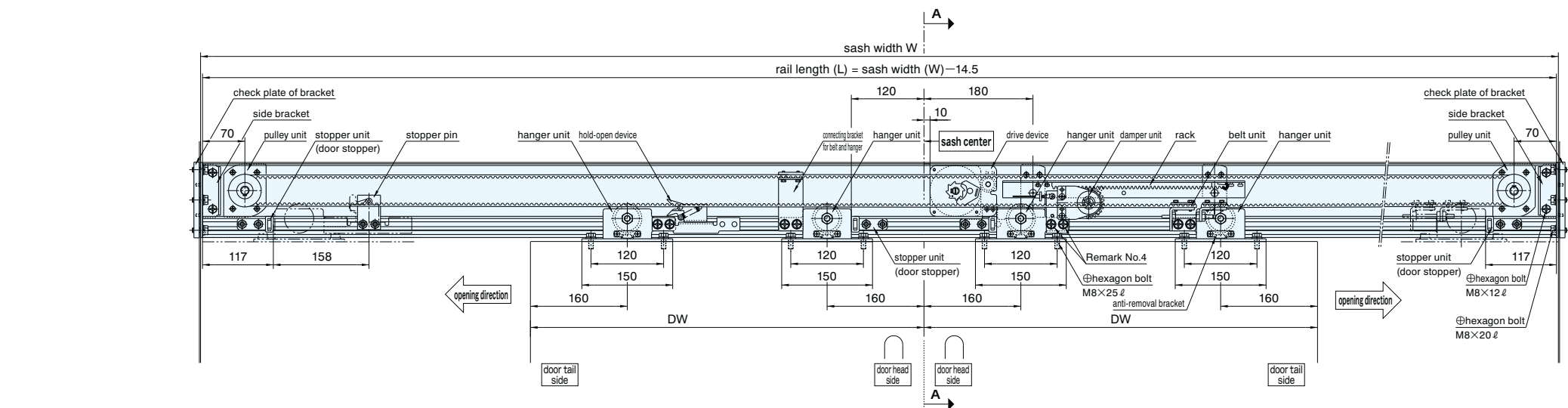


Side bracket

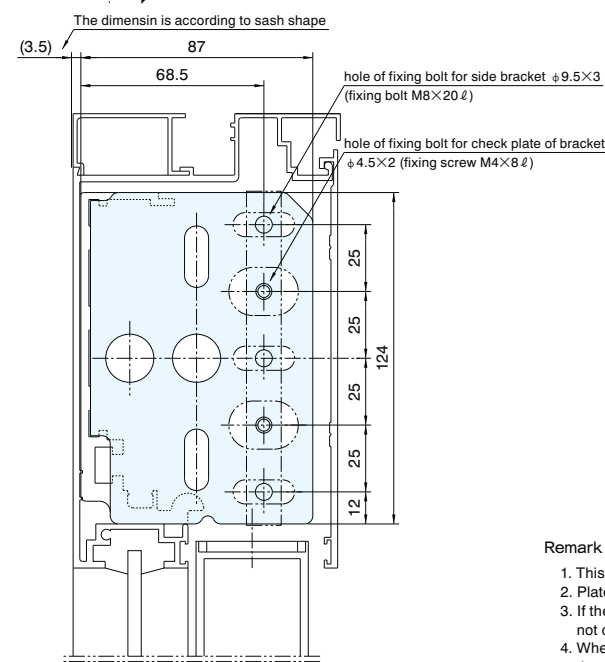
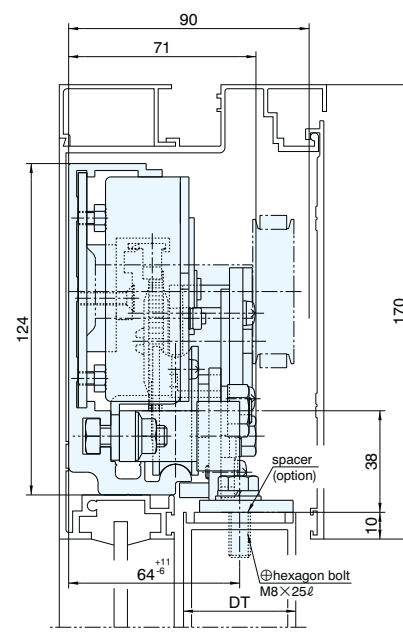
Remark

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	



cross section A-A



Side bracket

Hold-open	Model No.	Fixed door size	
		Width and Height (mm)	Weight (kg)
Without Hold-open	SL-2BDAQ	600~1300	less than 10
With Hold-open	SLS-2BDAQ	×2400	(total door weight)

Remark

1. This drawing is SLS-2BDAQ (w/h Hold-open devise)
2. Plate spring and stop roller are not included with SLS-2BDAQ
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.