

# INSTALLATION INSTRUCTIONS

Art#: DSODH-B/OP Series

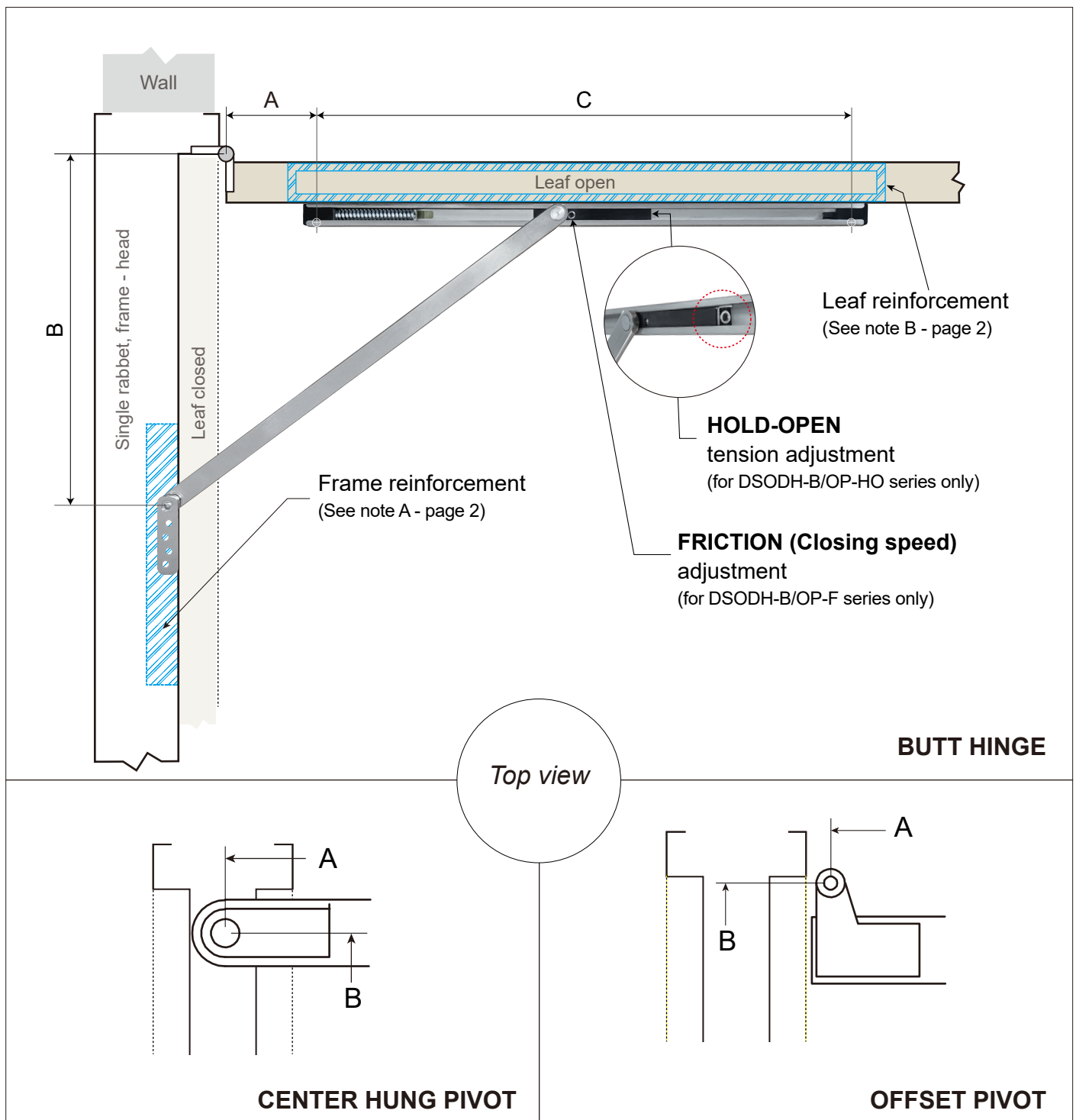
Surface overhead door holder

Unit: mm

DSODH – B/OP series should always be installed prior to installing door closer.

## Step 1:

- Determine the mounting being used from illustration below.
- Select mounting group # from page 2.
- Using the mounting group # and the Overhead Holder (Friction, Stop & Hold-open) size and the degree of opening desired, find "A" and "B" dimensions from charts on page 5. For Dead Stop add 14 mm to the "A" dimension from the chart. See note D for information about Dead Stop (page 2).



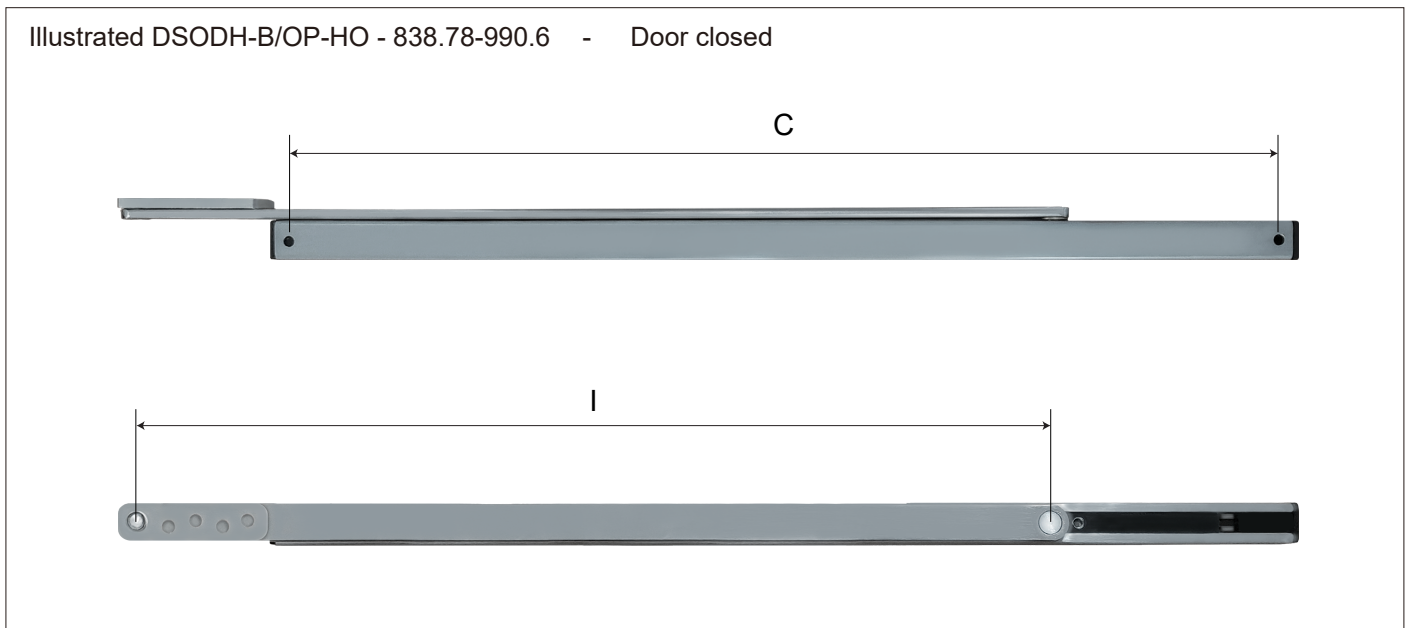
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## Notes:

- A. Hollow metal frames should be properly reinforced with a 5 mm minimum thickness by 305 mm minimum length plate.
- B. Hollow metal leaf should be properly reinforced with a 5 mm minimum thickness by 64 mm minimum width plate.
- C. Stop only units are permitted on many fire door applications. However, Mechanical Hold-Open devices that require manual release are not permitted for use on any fire door as outlined on NFPA80® or NFPA101®.
- D. Dead Stop (DS) templating may be used on Hold Open, Friction & Stop Only models. The DS position is reached when the shock spring is fully compressed. When DS templating is used, the initial degree of Stop will be 5° - 7° less than DS opening. For use on doors opening back-to-back, against a wall or obstruction.
- E. This product cannot be used with Hold-Open function when used in the fire door.

Leaf Thickness	Hinge Type & Size	Mounting Group #
35 mm Mounting package sold separately	3" Wide Butt	4
	3"-1/2" Butt	3
	3/4" Offset Pivot	3
44 mm	4" Wide Butt	2
	4-1/2" Wide Butt	2
	5" Wide Butt	1
	3/4" Offset Pivot	2
	Center Hung Pivot	5
51 mm	4-1/2" Wide Butt	2
	5" Wide Butt	1
	3/4" Offset Pivot	1
	Center Hung Pivot	5
57 mm	4-1/2" Wide Butt	2
	5" Wide Butt	1
	Center Hung Pivot	5

Mounting Screw Details			
	Q'ty	Wood Doors	Metal Doors
Leaf	2	#10 - 24 x 1-1/2"	#10 - 24 x 1-1/2"
Leaf	2	#10 - 24 x 1-9/16" Sex Bolts	#10 - 24 x 1-9/16" Sex Bolts
Frame Soffit	4	3/16x 1-1/2"	#10 - 32 x 1/2"

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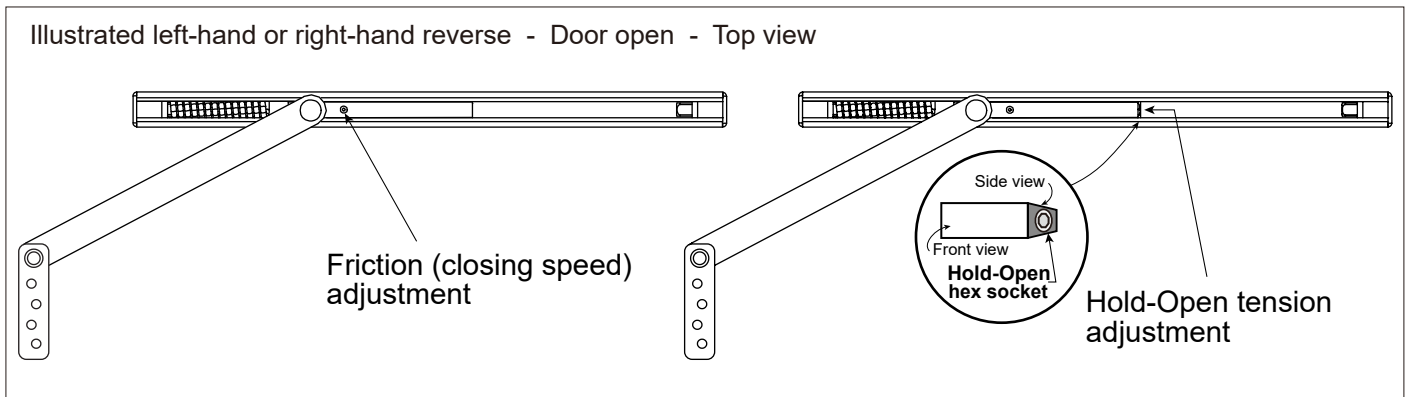
Surface overhead door holder



Unit: mm

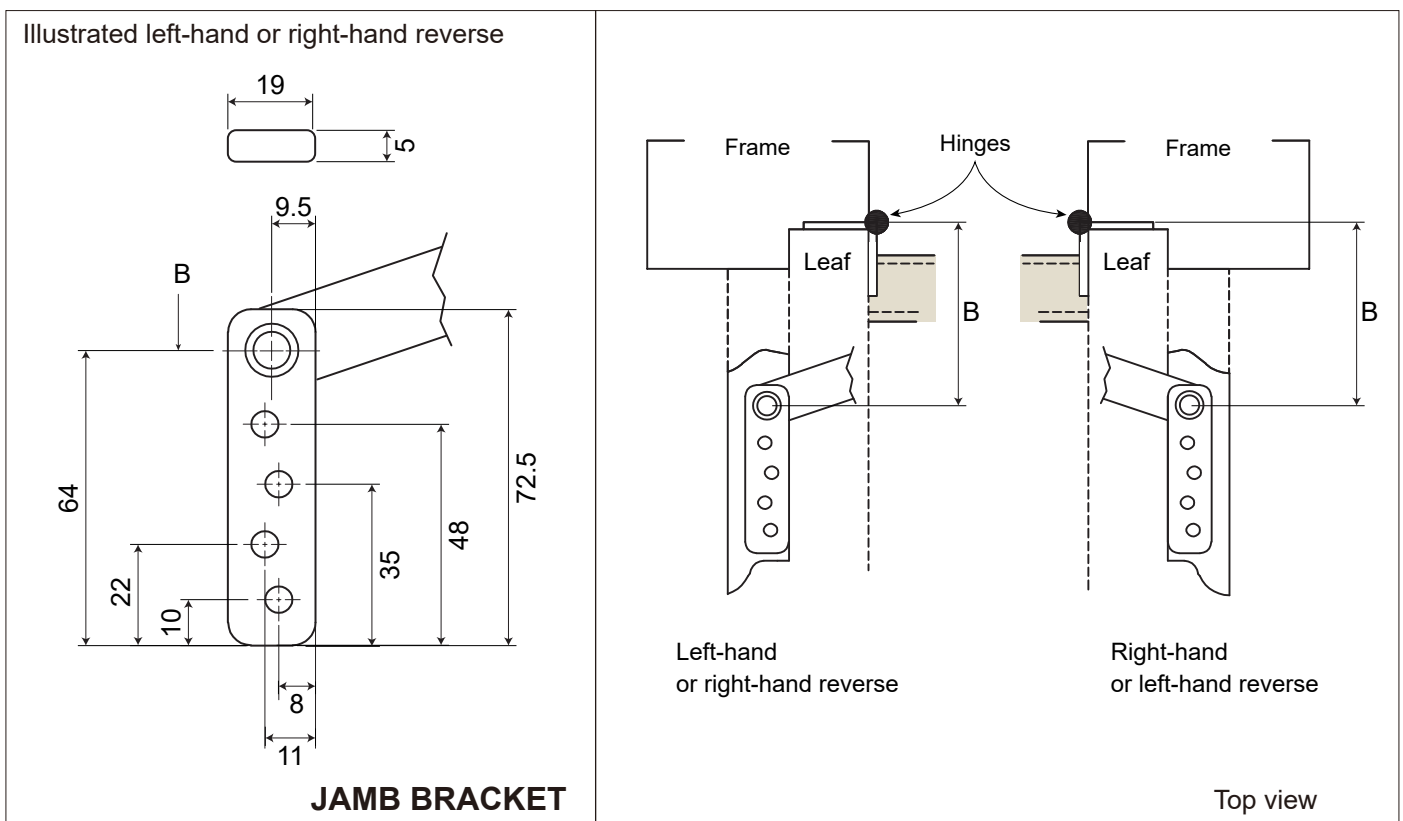
Hold-Open tension adjustment (Hold-Open unit only): Using 5/32" allen key, turn clockwise to decrease Hold-Open tension and counter-clockwise to increase Hold-Open tension. Tension is set to minimum at factory.

Friction adjustment (Friction unit only): Using a 3/32" allen key, turn clockwise to increase the friction tension and turn counter-clockwise to decrease the friction tension.



## Step 2:

- Locate "B" dimension on the frame. Note that the "B" dimension is measured from the centerline of the hinge as shown.
- Mortise the jamb bracket as shown. Refer to left-hand and right-hand plan views for appropriate hole pattern.
- For metal frames, use a #21 drill and a 10-32 Tap in 4 places. For wood frames, drill a 1/8" pilot hole in places.



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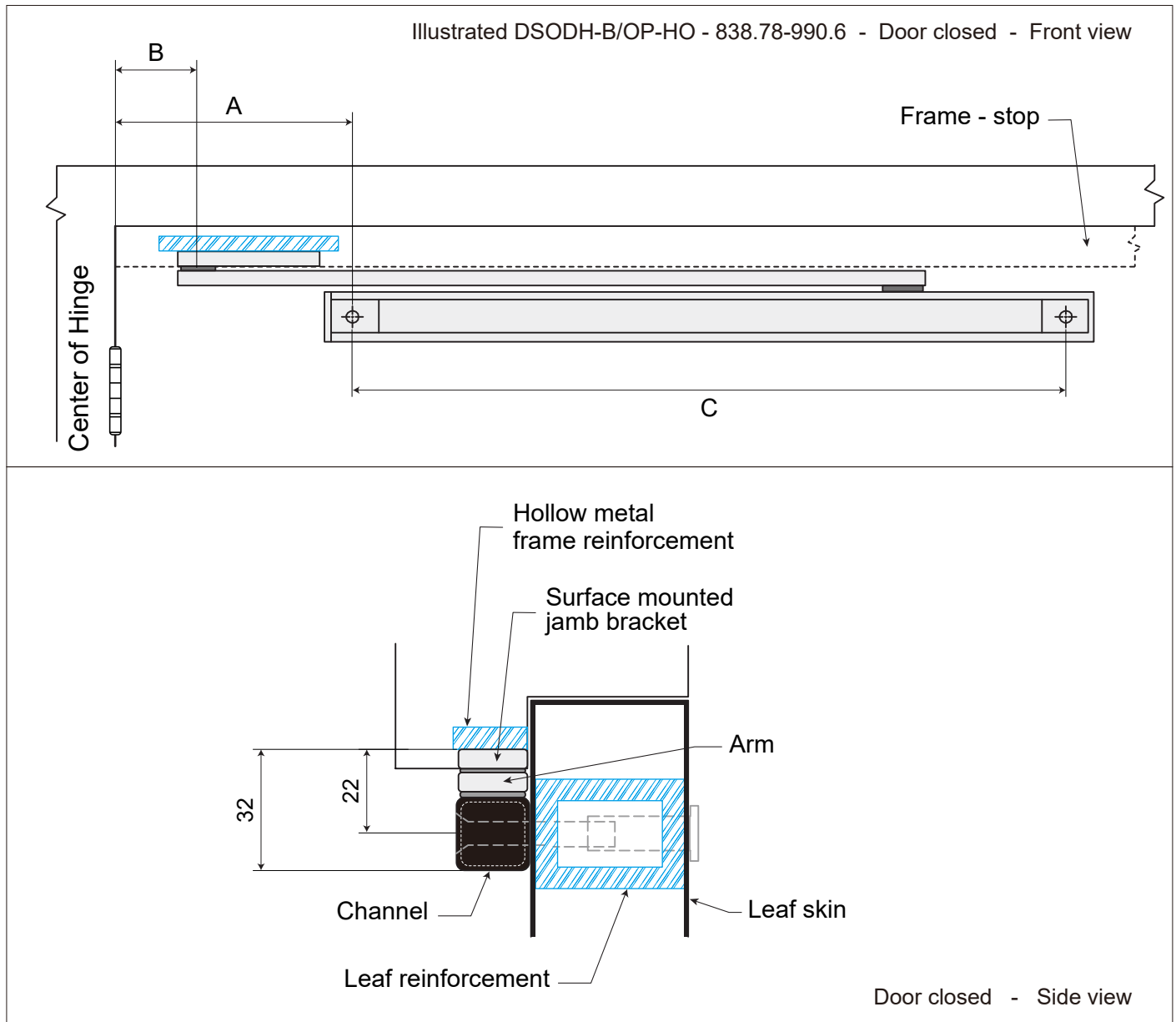
Surface overhead door holder

**DURABLE**  
COLLECTION

Unit: mm

## Step 3:

- Locate "A" & "C" dimensions on the leaf. Note that the "A" & "B" dimensions are measured from the centerline of the hinge as shown.
- Drill the 6 mm diameter through holes down 22 mm down from stop in two places. On the pull side of the door, drill 10 mm diameter holes, 41 mm deep for sex bolts. Mounting holes should be prepared in the field.



## Step 4:

- Install jamb bracket on the frame head.
- Install the channel on the leaf with shock spring towards the hinge edge of the door.

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Unit: mm

Caution: "A" & "B" dimensions are measured from the centerline of pivot, not the edge of door.  
For Dead Stop add 14 mm to the "A" dimension.  
I & C are demonstrated in page 2.

Leaf opening angle	85°		90°		95°		100°		105°		110°	
	A	B	A	B	A	B	A	B	A	B	A	B
DSODH-B/OP-X-457.2-584.2	-	-	-	-	-	-	-	-	-	-	-	-
DSODH-B/OP-X-585.78-685.8	75	125	65	116	-	-	-	-	-	-	-	-
DSODH-B/OP-X-687.38-838.2	175	154	164	144	156	135	148	127	-	-	-	-
DSODH-B/OP-X-839.78-990.6	273	194	260	183	249	171	240	162	232	152	224	148
DSODH-B/OP-X-992.187-1143	364	229	349	214	337	203	327	191	318	181	310	173
DSODH-B/OP-X-457.2-584.2	38	92	-	-	-	-	-	-	-	-	-	-
DSODH-B/OP-X-585.78-685.8	79	130	71	121	64	114	-	-	-	-	-	-
DSODH-B/OP-X-687.38-838.2	179	160	170	148	160	140	152	132	146	125	-	-
DSODH-B/OP-X-839.78-990.6	276	200	265	187	254	176	244	167	237	157	230	151
DSODH-B/OP-X-992.187-1143	370	233	354	221	343	205	330	195	322	186	313	179
DSODH-B/OP-X-457.2-584.2	46	100	40	92	-	-	-	-	-	-	-	-
DSODH-B/OP-X-585.78-685.8	84	135	76	127	70	121	64	114	57	108	-	-
DSODH-B/OP-X-687.38-838.2	184	165	175	156	165	146	159	138	152	132	146	127
DSODH-B/OP-X-839.78-990.6	283	205	270	192	259	181	249	173	241	164	235	156
DSODH-B/OP-X-992.187-1143	375	241	359	224	346	211	335	202	327	191	318	184
DSODH-B/OP-X-457.2-584.2	51	105	44	98	38	92	-	-	-	-	-	-
DSODH-B/OP-X-585.78-685.8	89	140	81	130	73	124	68	117	62	113	57	108
DSODH-B/OP-X-687.38-838.2	189	170	178	159	170	151	162	141	156	135	149	130
DSODH-B/OP-X-839.78-990.6	286	210	273	197	262	184	252	176	244	168	237	160
DSODH-B/OP-X-992.187-1143	378	243	362	229	349	216	338	203	330	194	321	186
DSODH-B/OP-X-457.2-584.2	60	114	54	108	48	102	43	97	40	94	35	89
DSODH-B/OP-X-585.78-685.8	95	146	89	140	83	133	76	127	70	121	67	117
DSODH-B/OP-X-687.38-838.2	197	178	187	168	178	159	170	151	164	144	157	138
DSODH-B/OP-X-839.78-990.6	294	217	279	203	270	194	260	184	252	176	244	168
DSODH-B/OP-X-992.187-1143	387	254	371	238	359	225	346	213	337	203	327	194

"A" & "B" dimensions are changed for mounting group #5. (Please install it).