



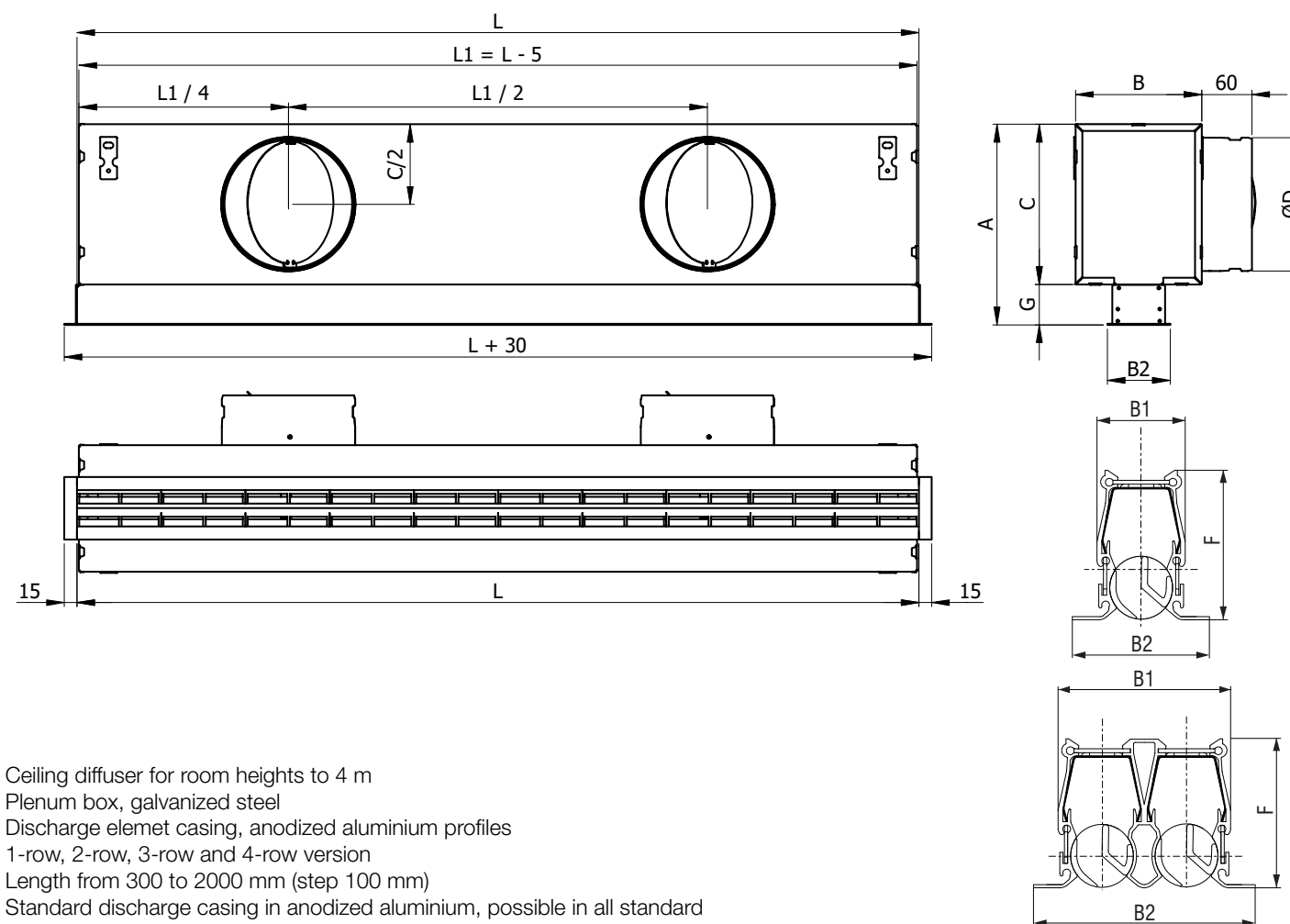
Product manual

Linear diffusers

LDD, LDF, LDM, LDA, LDH

Air distribution

Version 1.2.2
Date: 12.11.2025.



LDD

Linear diffusers with 30 mm (LDD-30) and 50 mm (LDD-50) discharge element diameter. Discharge elements are individually adjustable, providing flexibility to meet various space requirements. Linear diffusers LDD are ideal for highly discrete architectural applications, with accessories for easy inline combination of multiple diffusers and plenum boxes.

- Ceiling diffuser for room heights to 4 m
- Plenum box, galvanized steel
- Discharge element casing, anodized aluminium profiles
- 1-row, 2-row, 3-row and 4-row version
- Length from 300 to 2000 mm (step 100 mm)
- Standard discharge casing in anodized aluminium, possible in all standard RAL powder coating options for diffusers

- ▼ LDD Linear drum diffuser
- ▼ LDF Fixed linear diffuser
- ▼ LDM Slide adjustable linear diffuser
- ▼ LDA Rotate adjustable linear diffuser
- ▼ LDH Flush mounted linear diffuser



PRODUCT
CALCULATION
SOFTWARE



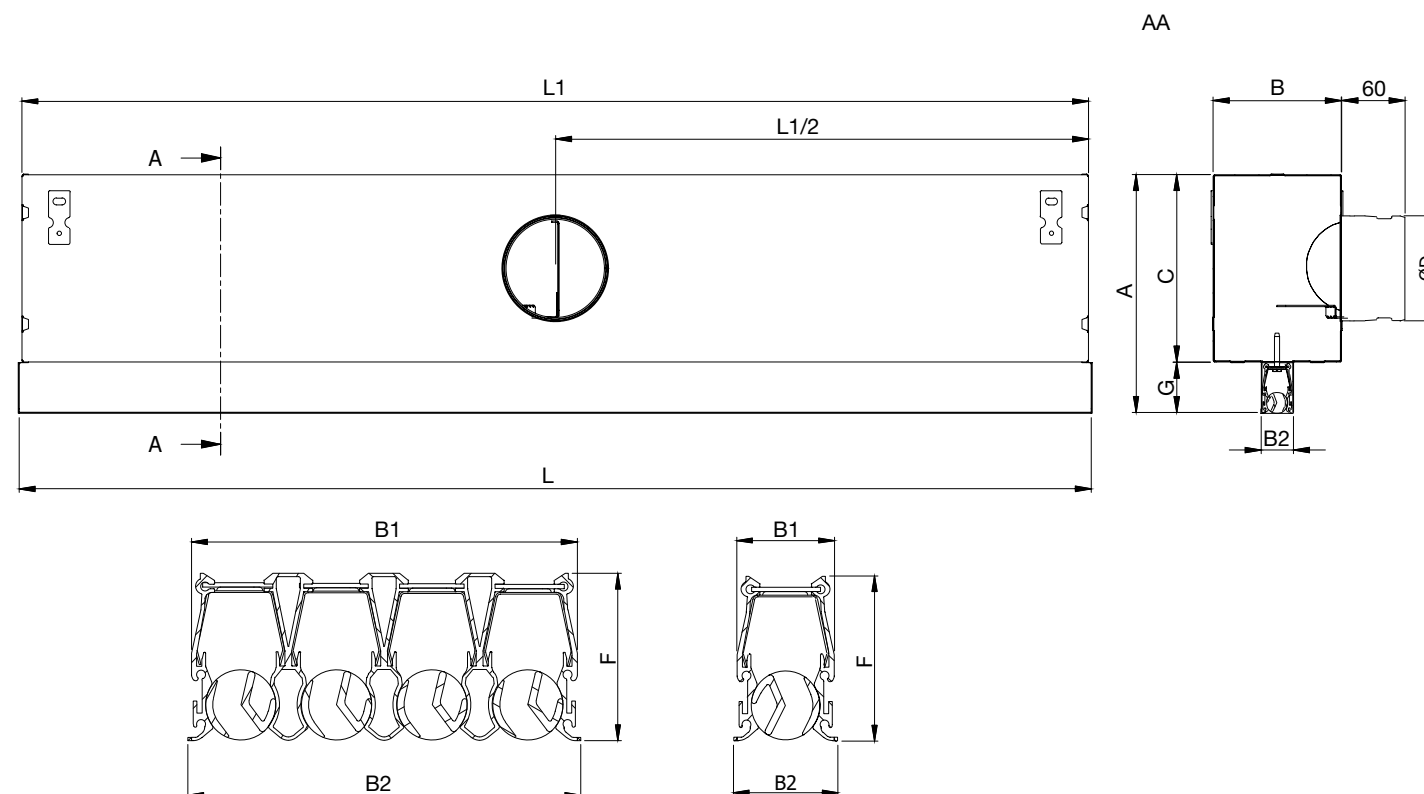
DIFFUSER \ LDD

AIR DISTRIBUTION

DIMENSIONS

Type	No. of slots	A _{ef} [m²/m]	L [mm]	V [m³/h]	h [m]	B1 [mm]	B2 [mm]	A [mm]	B [mm]	C [mm]	øD [mm]	Connection diameter	No. of connections	F [mm]	G [mm]
LDD 30	1	0,00752	do 1000	40 -130	2,7 -4,0	28	47,5	223	120	175	98	100	1	47,5	48
			1100-1500								98	100	2		
			1600-2000								123	125	2		
	2	0,01504	do 1000	70 -240	2,7 -4,5	55	74,5	238	150	190	158	160	1		
			1100-1500								123	125	2		
			1600-2000								158	160	2		
	3	0,02256	do 1000	120 -320	3,0 -5,0	82	101,5	263	180	215	158	160	1		48
			1100-2000								158	160	2		
			do 1000								198	200	1		
	4	0,03008	do 1000	160 -400	3,5 -5,0	109	128,5	303	210	255	158	160	2	48	48
			1100-1500								158	160	2		
			1600-2000								198	200	2		

Type	No. of slots	A _{ef} [m²/m]	L [mm]	V [m³/h]	h [m]	B1 [mm]	B2 [mm]	A [mm]	B [mm]	C [mm]	ø D [mm]	Connection diameter	No. of connections	F [mm]	G [mm]
LDD 50	1	0,01504	do 1000	75 -210	2,7 -4,0	43,5	71	253	130	195	123	125	1	57,5	58
			1100-1500								123	125	2		
			1600-2000								158	160	2		
	2	0,03008	do 1000	130 -390	2,7 -4,5	93,5	121	273	180	215	158	160	1		58
			1100-2000								158	160	2		
			do 1000								198	200	1		
	3	0,04512	do 1000	195 -520	3,0 -5,0	143,5	171	313	230	255	158	160	2	58	58
			1100-1500								198	200	2		
			1600-2000								198	200	2		
	4	0,06016	do 1000	260 -650	3,5 -5,0	193,5	221	338	280	280	248	250	1	58	58
			1100-1500								198	200	2		
			1600-2000								248	250	2		



LDD-N

Narrow linear diffusers with 30 mm (LDD-N-30) and 50 mm (LDD-N-50) discharge element diameter. Discharge elements are individually adjustable, providing flexibility to meet various space requirements. Linear diffusers LDD-N are ideal for highly discrete architectural applications, with accessories for easy inline combination of multiple diffusers and plenum boxes.

- Ceiling diffuser for room heights to 4 m
- Plenum box, galvanized steel
- Discharge element casing, anodized aluminium profiles
- 1-row, 2-row, 3-row and 4-row version
- Length from 300 to 2000 mm (step 100 mm)
- Standard discharge casing in anodized aluminium, possible in all standard RAL powder coating options for diffusers



- ▼ LDD Linear drum diffuser
- ▼ LDF Fixed linear diffuser
- ▼ LDM Slide adjustable linear diffuser
- ▼ LDA Rotate adjustable linear diffuser
- ▼ LDH Flush mounted linear diffuser



AIR DISTRIBUTION

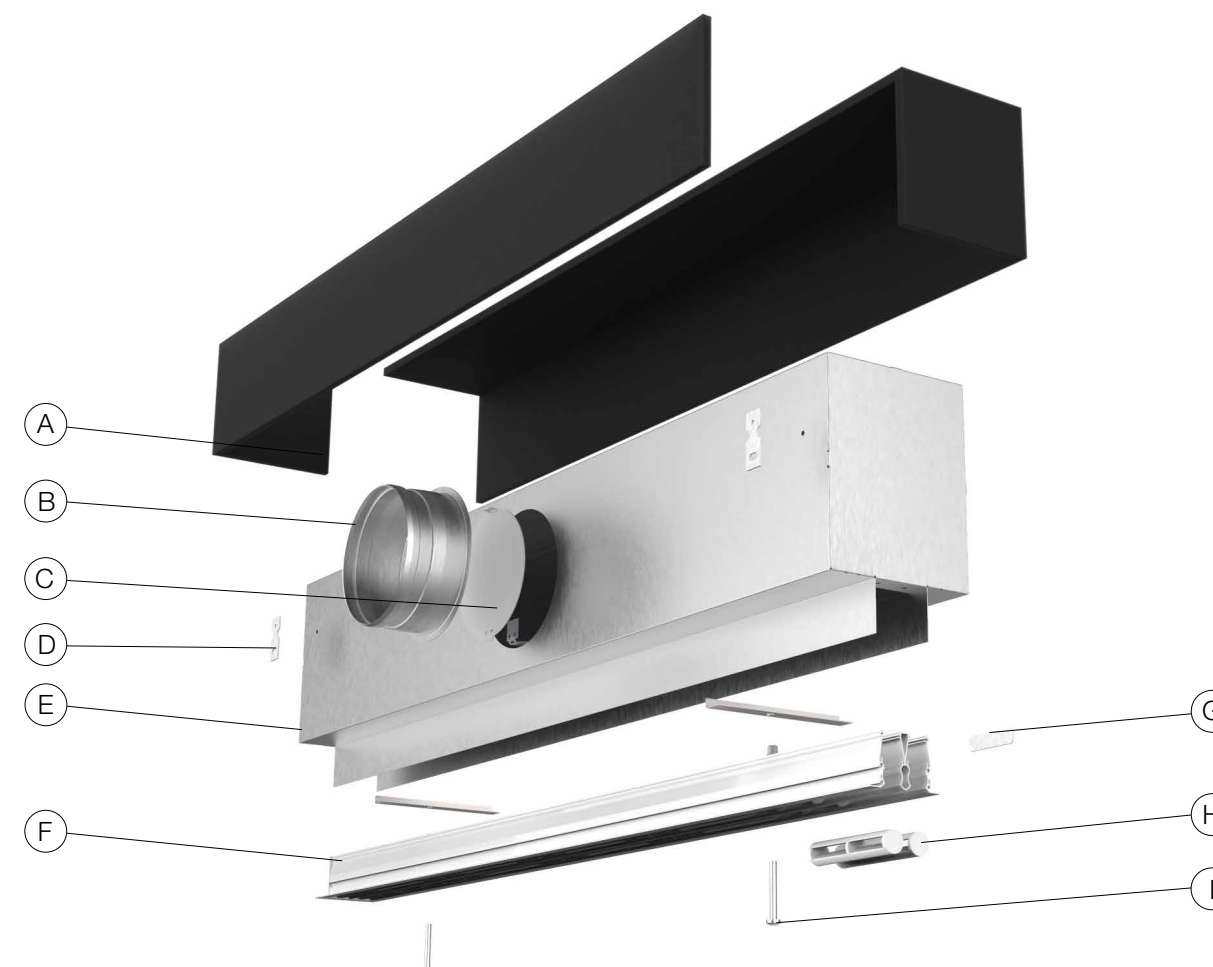
DIMENSIONS

Type	No. of slots	A _{ef} [m²/m]	L [mm]	V [m³/h]	h [m]	B1 [mm]	B2 [mm]	A [mm]	B [mm]	C [mm]	øD [mm]	Connection diameter	No. of connections	F [mm]	G [mm]
LDD-N-30	1	0,00752	do 1000	40 -130	2,7 -4,0	28	30	223	120	175	98	100	1	47,5	48
			1100-1500								98	100	2		
			1600-2000								123	125	2		
	2	0,01504	do 1000	70 -240	2,7 -4,5	55	57	238	150	190	158	160	1		
			1100-1500								123	125	2		
			1600-2000								158	160	2		
	3	0,02256	do 1000	120 -320	3,0 -5,0	82	84	263	180	215	158	160	1	47,5	48
			1100-1500								158	160	2		
			1600-2000								198	200	1		
	4	0,03008	do 1000	160 -400	3,5 -5,0	109	111	303	210	255	158	160	2		
			1100-1500								158	160	2		
			1600-2000								198	200	2		

Type	No. of slots	A _{ef} [m²/m]	L [mm]	V [m³/h]	h [m]	B1 [mm]	B2 [mm]	A [mm]	B [mm]	C [mm]	ø D [mm]	Connection diameter	No. of connections	F [mm]	G [mm]
LDD-N-50	1	0,01504	do 1000	75 -210	2,7 -4,0	43,5	45,5	253	130	195	123	125	1	57,5	58
			1100-1500								123	125	2		
			1600-2000								158	160	2		
	2	0,03008	do 1000	130 -390	2,7 -4,5	93,5	95,5	273	180	215	158	160	1		
			1100-2000								158	160	2		
			1600-2000								198	200	1		
	3	0,04512	do 1000	195 -520	3,0 -5,0	143,5	145,5	313	230	255	158	160	2	57,5	58
			1100-1500								158	160	2		
			1600-2000								198	200	2		
	4	0,06016	do 1000	260 -650	3,5 -5,0	193,5	195,5	338	280	280	248	250	1		
			1100-1500								198	200	2		
			1600-2000								248	250	2		



Easy connection of multiple diffusers in line with serial connection piece



A 5 side insulation
B Plenum connection
C RD regulation damper

D Mounting suspension
E Galvanized steel casing
F LDD diffuser

G End plates and joints
H Discharge elements
I Mounting screw

- ▼ LDD Linear drum diffuser
- ▼ LDF Fixed linear diffuser
- ▼ LDM Slide adjustable linear diffuser
- ▼ LDA Rotate adjustable linear diffuser
- ▼ LDH Flush mounted linear diffuser



PRODUCT
CALCULATION
SOFTWARE



DIFFUSER \ LDD

AIR DISTRIBUTION

ORDERING KEY LDD

(1) Diffuser model	(2) Number of slots	(3) Diffuser length	(4) Discharge element color	(5) RAL
LDD-30	-	2	-	2000
(1) LDD-N-30, LDD-30 LDD-N-50, LDD-50			(4) B - black discharge elements W - white discharge elements G - grey discharge elements	(5) RAL
(2) 1/2/3/4				
(3) Diffusers length (500...2000 mm in 100 mm increments)				

* Diffuser comes standard with two alignment pins

ORDERING KEY LDD + PBL-D

(1) Diffuser model	(2) Number of slots	(3) Diffuser length	(4) Discharge element color	(5) Plenum box	(6) No. of connections / diameter	(7) Insulation	(8) RAL
LDD-30	-	2	-	2000	-	B	-
(1) LDD-N-30, LDD-30 LDD-N-50, LDD-50			(4) B - black discharge elements W - white discharge elements G- grey discharge elements	(5) PBL-D plenum box	(6) No. of connections/ diameter (see table pg.2)	(7) Z - internal insulation	(8) RAL
(2) 1/2/3/4							
(3) Diffusers length (500...2000 mm in 100 mm increments)							

ORDERING KEY LDD Plenum box

(1) Plenum box	(2) Diffuser model	(3) Number of slots	(4) Diffuser length	(5) Insulation	(6) No. of connections / diameter
PBL-D	-	30	-	1	-
(1) PBL-D plenum box				(5) Z - internal insulation	(6) No. of connections/ diameter (see table pg. 2)
(2) 30 - LDD30 50 - LDD50					
(3) 1/2/3/4					
(4) Diffusers length (500...2000 mm in 100 mm increments)					



End profile L



A Connection seal
B Corner section

- ▼ LDD Linear drum diffuser
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- ▼ LDH Flush mounted linear diffuser



PRODUCT
CALCULATION
SOFTWARE



ACCESSORIES / LDD

AIR DISTRIBUTION

ORDERING KEY Connection seal

(1) Connection seal (2) Plenum box diameter [mm]

LDD -A-SL	-	98
(1) SL		
(2) 98		
123		
158		
198		
248		

ORDERING KEY End profile

(1) Connection seal (2) Diffuser model (3) Number of slots (4) RAL

LDD-A-LN	-	30	-	2	-	RAL
(1) L - End profile		(3) Number of slots (1, 2, 3, 4)				
LN - Narrow end profile						
(2) 30 - LDD30		(4) RAL				
50 - LDD50						

ORDERING KEY Corner section

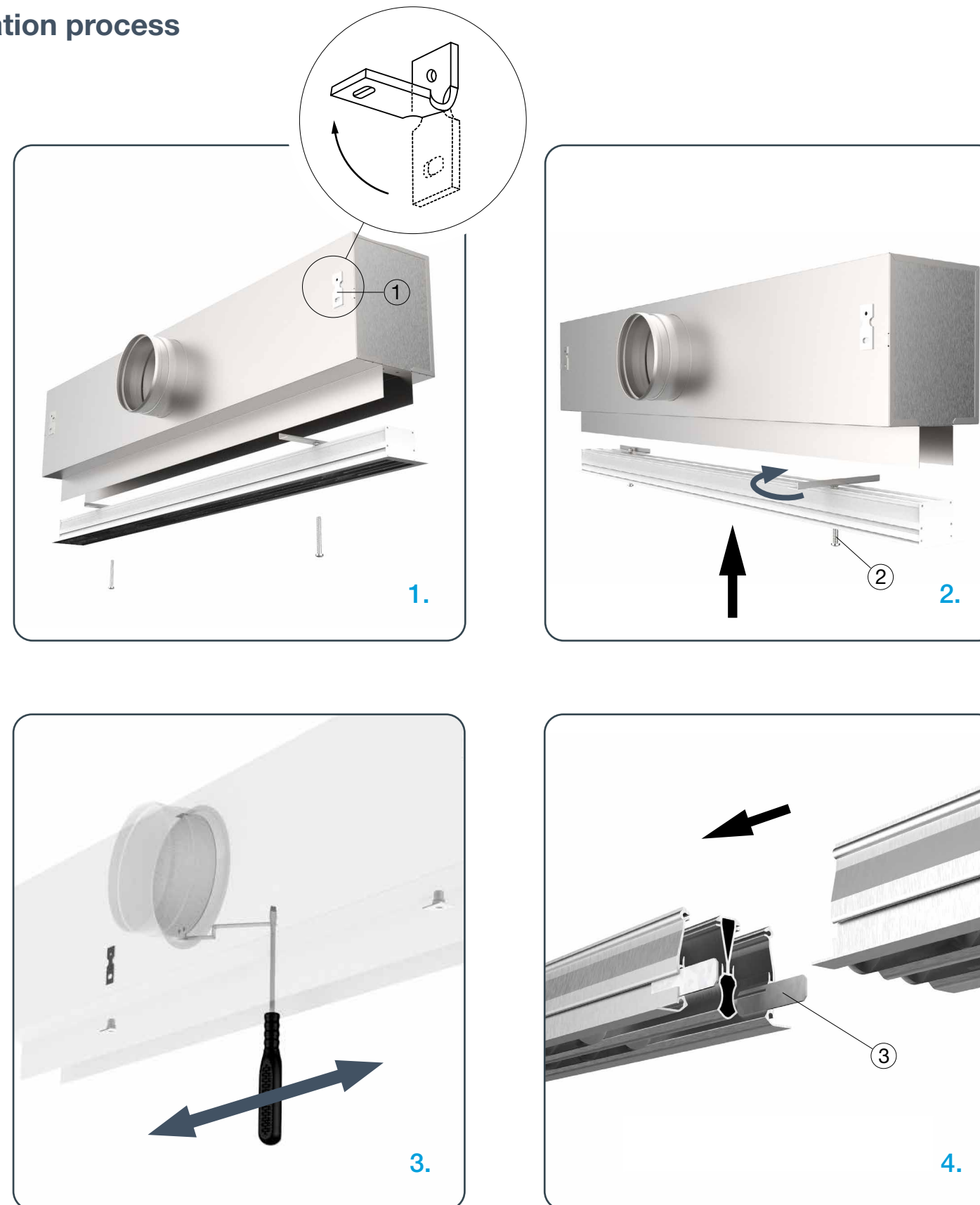
(1) Corner section (2) Number of slots (3) Diffuser angle (4) Discharge element color (5) RAL

LDD-A-CSN- 30	-	2	-	90°	-	B	-	RAL	-
(1) LDD-A-CS-30, LDD-A-CSN-30 (LDD-N)						(4) B - black discharge elements			
LDD-A-CS-50, LDD-A-CSN-50 (LDD-N)						W - white discharge elements			
						G - grey discharge elements			
(2) 1/2/3/4									
(3) 90°						(5) RAL			

Corner section LDD

- Angular blind joints do not have the function of air flow
- External dimensions: - L=300 x 300 mm
- angle 90°

Installation process LDD



- ▼ LDD Linear drum diffuser
- ▼ LDF Fixed linear diffuser
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- ▼ LDH Flush mounted linear diffuser



1. Inspect the products before the installation for transport damage and shortcomings. In case of any damage or shortcomings, immediately contact your supplier.

Locate the four mounts (1) on the sides of PBL-D box and bend them 90°. Suspend the box on the drop rods (8/10 mm) on the wanted height.

2. Install the plenum box flush with the ceiling and suspend it appropriately. Fix the diffuser with screws (2) in the plenum box.

3. To adjust airflow, insert screwdriver into PBL-D box and move RD damper handle left or right.

4. For installation of multiple diffusers in line, alignment pins (3) are provided with the diffuser. Insert a alignment pin (2 each per diffuser) on one side, then connect the next diffuser to it.

*** Lengths >1500 mm have cross-bar in the middle of the diffuser!**

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PRODUCT
CALCULATION
SOFTWARE

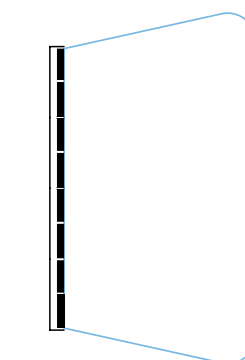
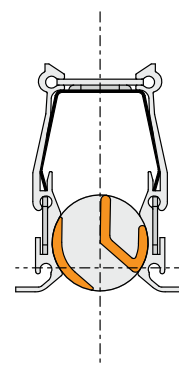


INSTALLATION

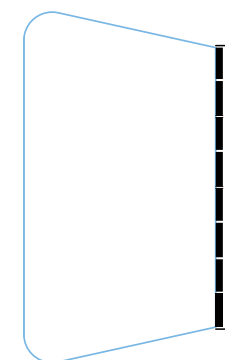
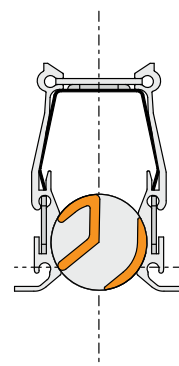
Setting of the discharge patterns

Individual diffusion elements can be manually adjusted according to the needs in the room. Depending on the setting air discharge can be directed with all discharge elements on one side or alternating with discharge on both sides.

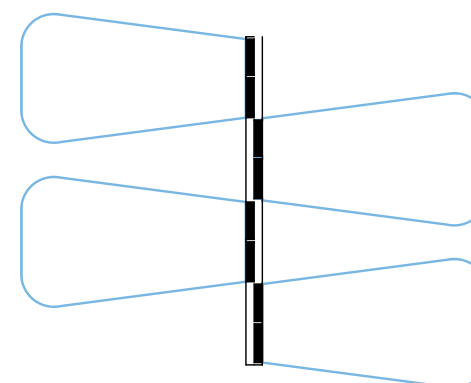
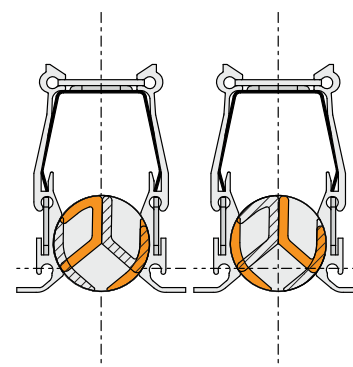
When the diffuser is used for a supply air, usual discharge angles are from 0° to 40° respective to the ceiling.



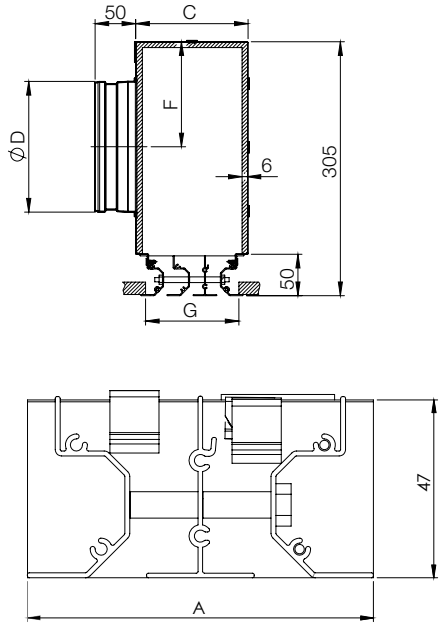
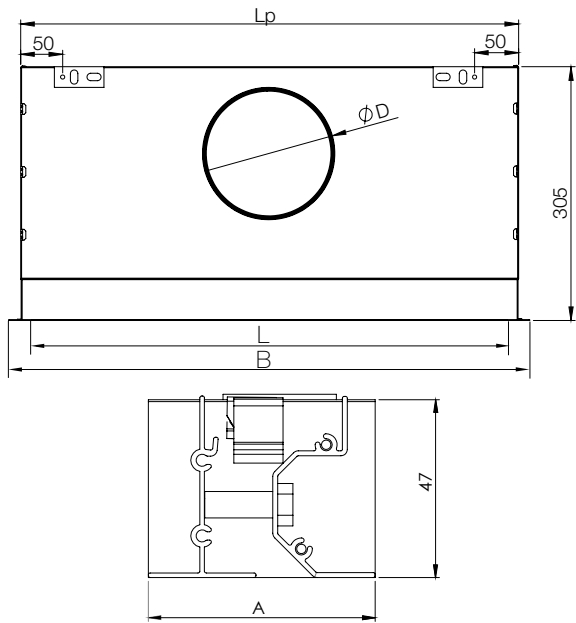
One-way horizontal
air discharge to the right



One-way horizontal
air discharge to the left



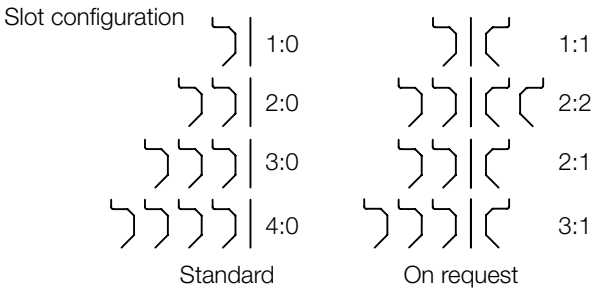
Alternating air control elements (every
second element different)



LDF

Linear diffuser with fixed horizontal air jet.
Suitable for horizontal supply and variable flow: when the flow is low, the air stream follows the contours of the diffuser (Coanda effect).
Usable up to 25% of maximum flow rate.

- Plenum box,galvanized steel
- Version removable plenum (clips), supplied not fitted to diffuser
- Plenum with integrated damper
- Discharge elemet, anodized aluminium profiles
- Discharge elemet is powder coted in RAL 9003, possible all standard RAL powder coating options for diffusers



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- ▼ LDF Fixed linear diffuser
- ▼ LDM Slide adjustable linear diffuser
- ▼ LDA Rotate adjustable linear diffuser
- ▼ LDH Flush mounted linear diffuser



DIFFUSER \ LDF

AIR DISTRIBUTION

DIMENSIONS

Type	No. of slots	Slot lay-out	L [mm]	B [mm]	A [mm]	G [mm]	Lp [mm]	C [mm]	No. of spigots	Ø D [mm]	F [mm]
LDF	1	0: 1 ' 1: 0	275	330	60	50	300	79	1	100	77
			575	630			600		1	125	89,5
			875	930			900		1	160	107
			1175	1230			1200		1	200	127
			275	330			300		1	125	89,5
	2	0: 2 - 2: 0	575	630	91,5	81,5	600	99	1	200	127
			875	930			900		1	200	127
			1175	1230			1200		2	200	127
			275	330			300		1	125	89,5
			575	630			600		1	200	127
	3	1: 1	875	930	123	113	900	105	1	200	127
			1175	1230			1200		2	200	127
			275	330			300		1	160	107
			575	630			600		1	200	127
			875	930			900		1	200	127
	4	0: 3 - 3: 0	1175	1230	154,5	144,5	1200	131	2	200	127
			275	330			300		2	200	127
			575	630			600		1	160	107
			875	930			900		1	200	127
			1175	1230			1200		2	200	127
	5	1: 2 - 2: 1	275	330			300	137	1	200	127
			575	630			600		2	200	127
			875	930			900		2	200	127
			1175	1230			1200		2	200	127
			275	330			300		1	200	127
	6	3: 1 - 1: 3 - 2: 2	575	630			600	169	2	200	127
			875	930			900		2	200	127
			1175	1230			1200		2	200	127
			275	330			300		1	200	127
			575	630			600		2	200	127
	7	0: 4 - 4: 0	875	930			900	163	2	200	127
			1175	1230			1200		2	200	127
			275	330			300		1	200	127
			575	630			600		2	200	127
			875	930			900		2	200	127

ORDERING KEY

(1) Diffuser model (2) Number of slots (3) Diffuser length (4) RAL (5) Plenum box (6) Insulation

LDF - 2 - 1175 - RAL

(1) LDF

PBL-F - Z

(2) 1 (1:0)
2 (2:0, 1:1)
3 (3:0, 2:1)
4 (4:0, 3:1, 2:2)

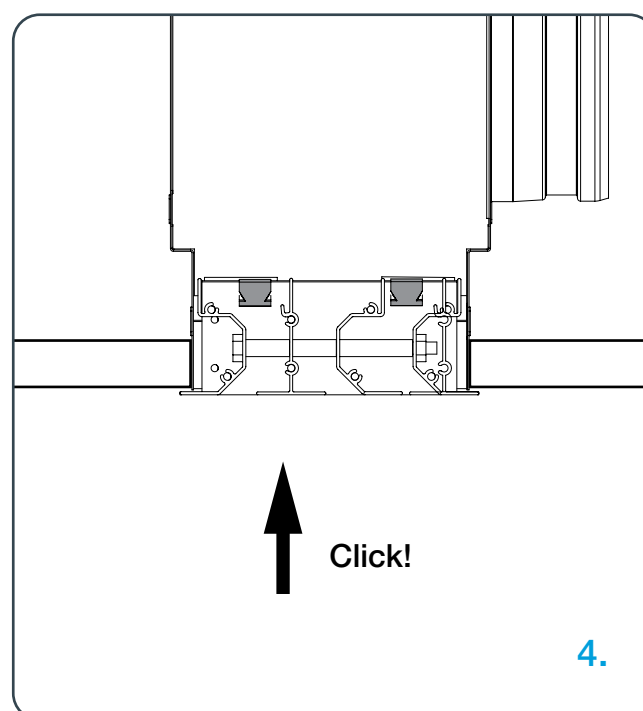
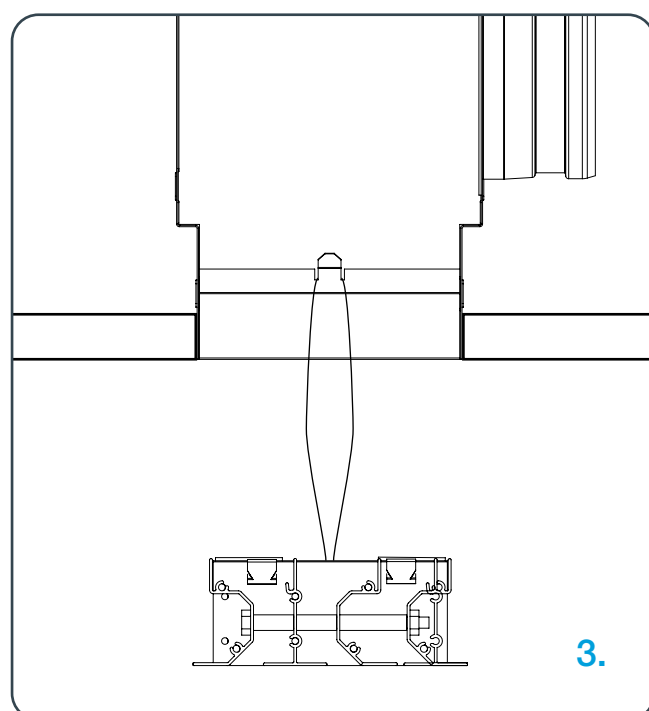
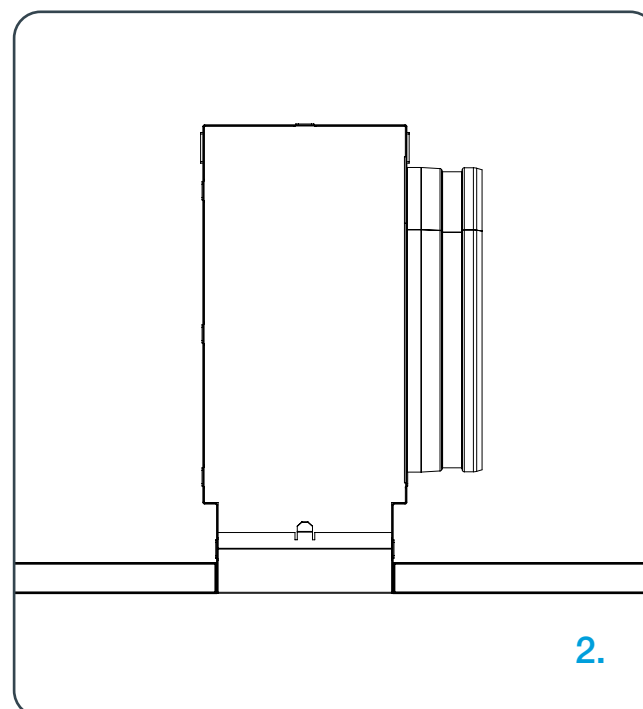
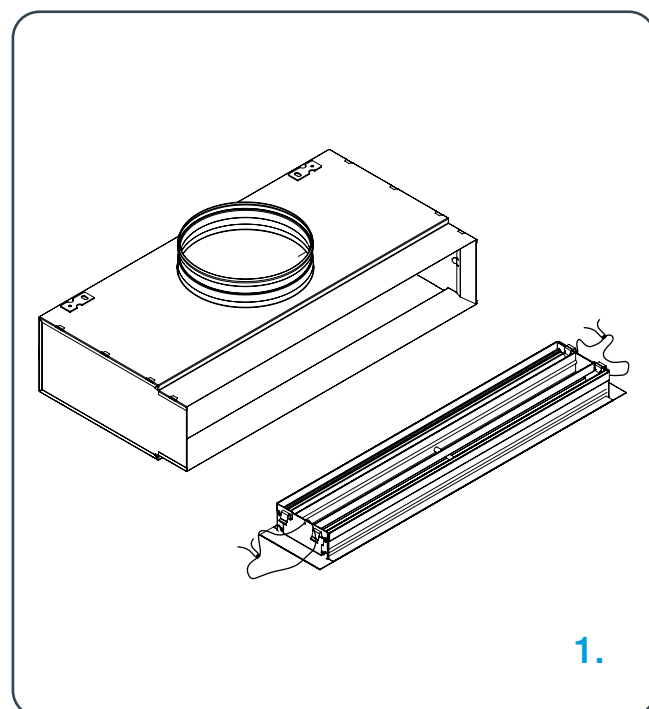
(5) PBL-F

(6) Internal insulation

(3) Diffusers length: 275
575
875
1175

(4) RAL

Installation process LDF

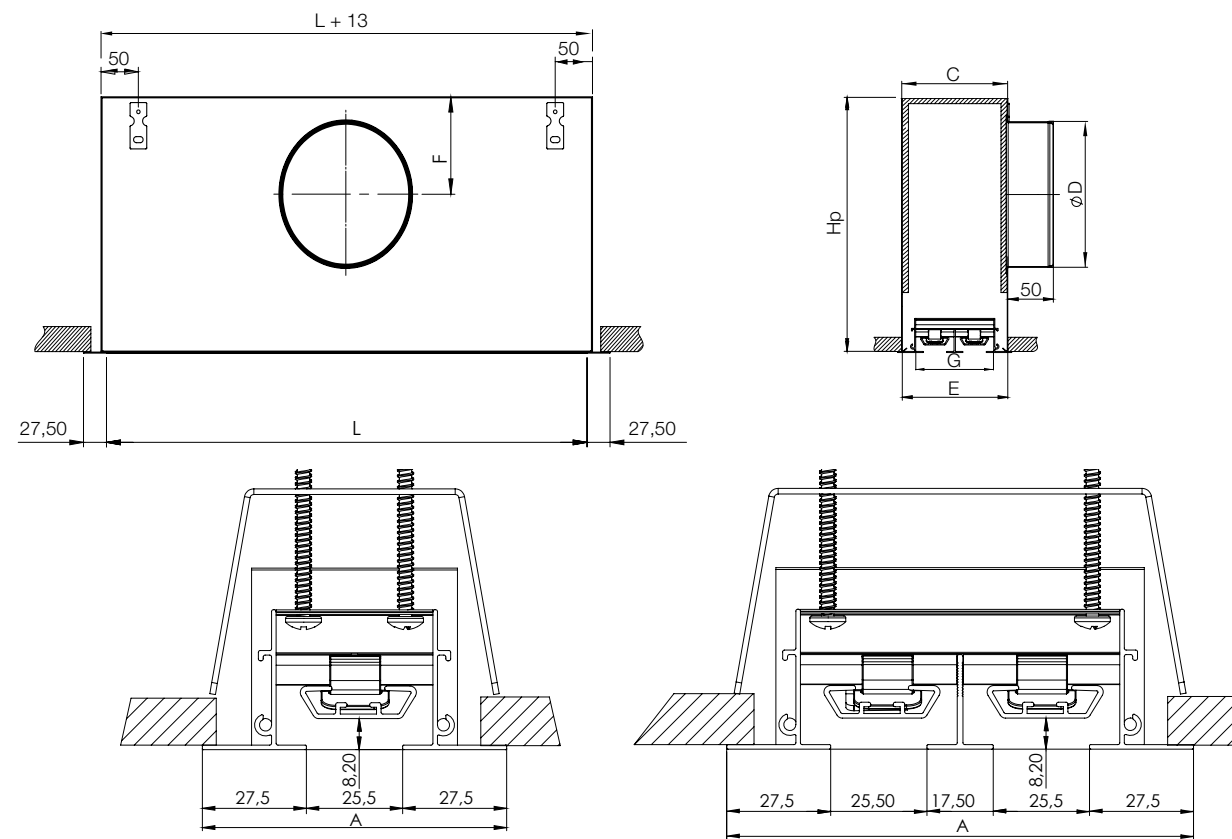


- ▼ LDD Linear drum diffuser
- ▼ LDF Fixed linear diffuser
- ▼ LDM Slide adjustable linear diffuser
- ▼ LDA Rotate adjustable linear diffuser
- ▼ LDH Flush mounted linear diffuser



LDF DIFFUSER

1. Inspect the products before the installation for transport damage and shortcomings. In case of any damage or shortcomings, immediately contact your supplier.
2. Install the plenum box flush with the ceiling and suspend it appropriately
3. Secure the diffuser to the plenum box using the strings provided with the diffuser
4. Gently push the diffuser in the plenum box until you hear the "click" sound that the diffuser is set properly in the plenum box.



LDM

Specially designed for ceiling installation, the diffusers allow direction of the air jet over 180° (horizontal or vertical supply). Small change in pressure drop with change in the direction of the air jet.

- Attractive appearance: slots concealed by the deflectors
- Can be used for high airflows
- Plenum box,galvanized steel
- Discharge elemet is powder coted in RAL 9003, possible all standard RAL powder coating options for diffusers
- Number of slots: 1 to 6
- Option to assemble several units to make an attractive linear strip (max.: 20 m)
- Angled pieces for creating corners

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- ▼ LDF Fixed linear diffuser
- ▼ LDM Slide adjustable linear diffuser
- ▼ LDA Rotate adjustable linear diffuser
- ▼ LDH Flush mounted linear diffuser



DIMENSIONS											ORDERING KEY					
Type	No. of slots	L [mm]	E [mm]	G [mm]	Hp [mm]	C [mm]	F [mm]	A [mm]	No. of spigots		(1) Diffuser model	(2) Number of slots	(3) Diffuser length	(4) RAL	(5) Plenum box	(6) Insulation
LDM	1	575	80	73	225	70	87	80,5	1 x Ø 123		LDM	-	2	-	1175	-
		875							1 x Ø 123							
		1175							2 x Ø 123							
		1475							2 x Ø 123							
	2	575	123	116	275	113	105	123,50	1 x Ø 158							
		875							1 x Ø 158							
		1175							2 x Ø 158							
		1475							2 x Ø 158							
	3	575	166	159	325	156	125	166,50	1 x Ø 198							
		875							1 x Ø 198							
		1175							2 x Ø 198							
		1475							2 x Ø 198							
	4	575	209	202	325	199	125	209,50	1 x Ø 198							
		875							1 x Ø 198							
		1175							2 x Ø 198							
		1475							2 x Ø 198							
	5	575	252	243	375	242	150	252,50	1 x Ø 248							
		875							1 x Ø 248							
		1175							2 x Ø 248							
		1475							2 x Ø 248							
	6	575	295	288	375	285	150	295,50	1 x Ø 248							
		875							1 x Ø 248							
		1175							2 x Ø 248							
		1475							2 x Ø 248							
		575							1 x Ø 248							
		875							1 x Ø 248							
		1175							2 x Ø 248							
		1475							2 x Ø 248							
		575							1 x Ø 248							
		875							1 x Ø 248							
		1175							2 x Ø 248							
		1475							2 x Ø 248							

Installation process LDM

- ▼ LDD Linear drum diffuser
- ▼ LDF Fixed linear diffuser
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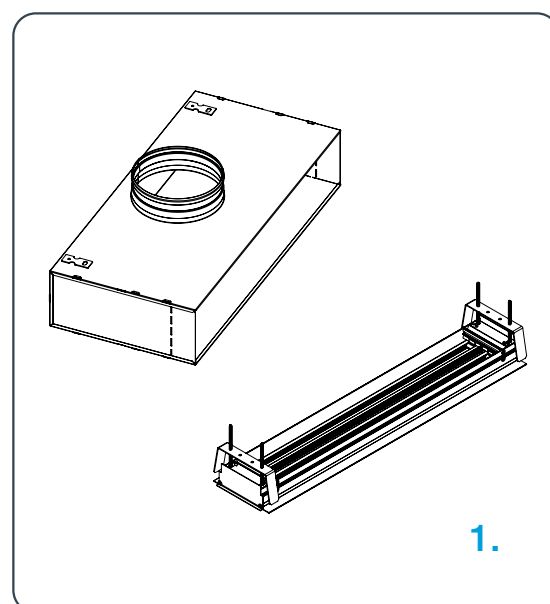
PRODUCT
CALCULATION
SOFTWARE



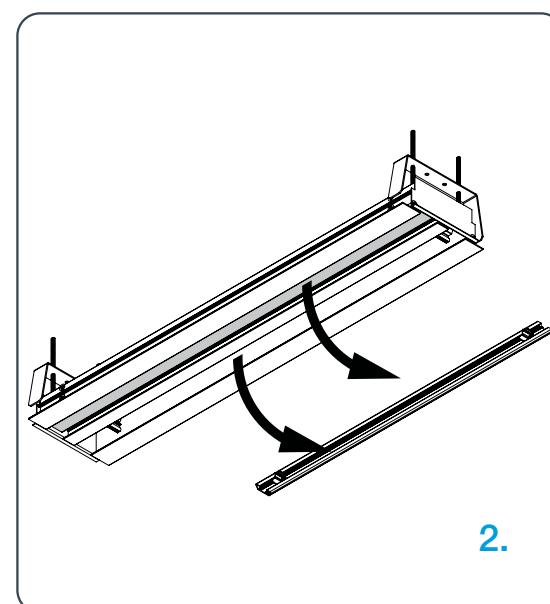
INSTALLATION

LDM DIFFUSER

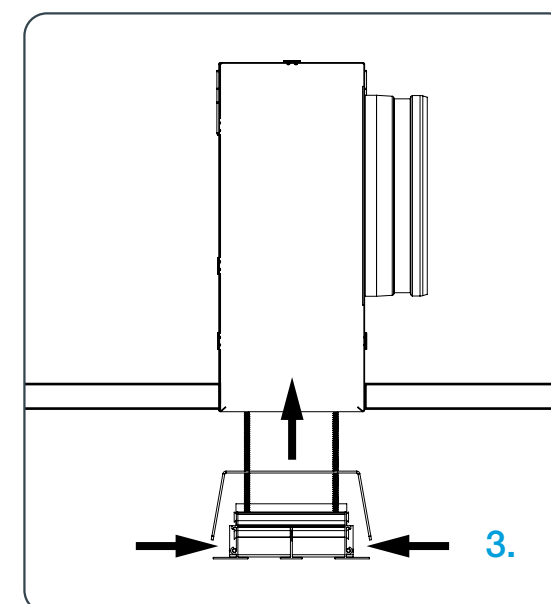
1. Inspect the products before the installation for transport damage and shortcomings. In case of any damage or shortcomings, immediately contact your supplier.
2. Take out the deflectors from the diffuser
3. In case of diffuser installation without a plenum box, adjust the clips to the thickness dimension of the ceiling boards.
4. Tighten the diffuser to the ceiling or the plenum box with the screwdriver
5. Reinstall back the deflectors by attaching them to the appropriate pins in diffuser



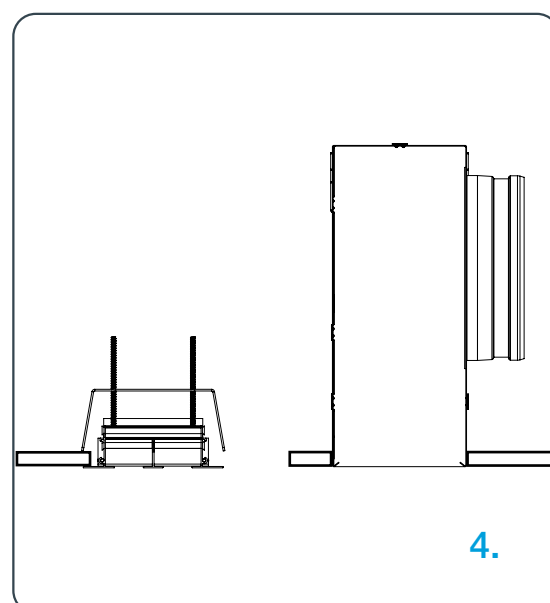
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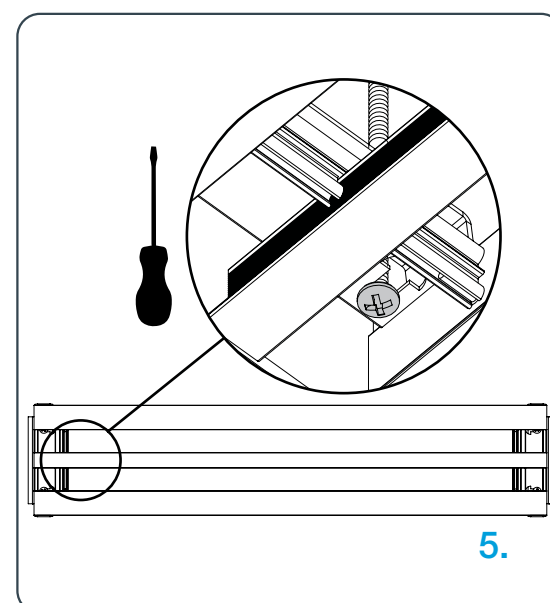
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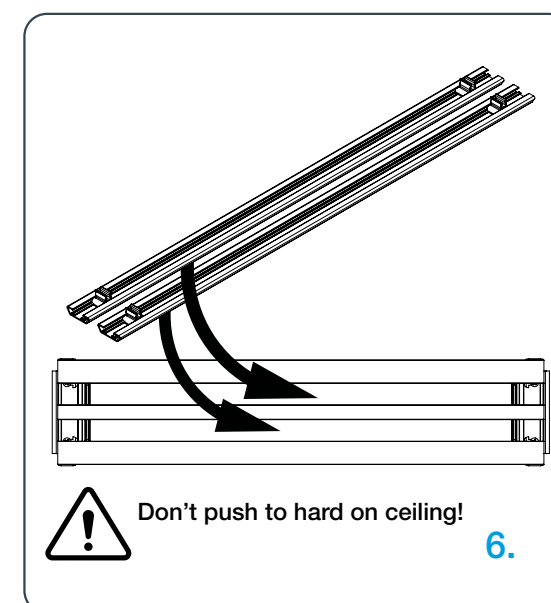
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4.



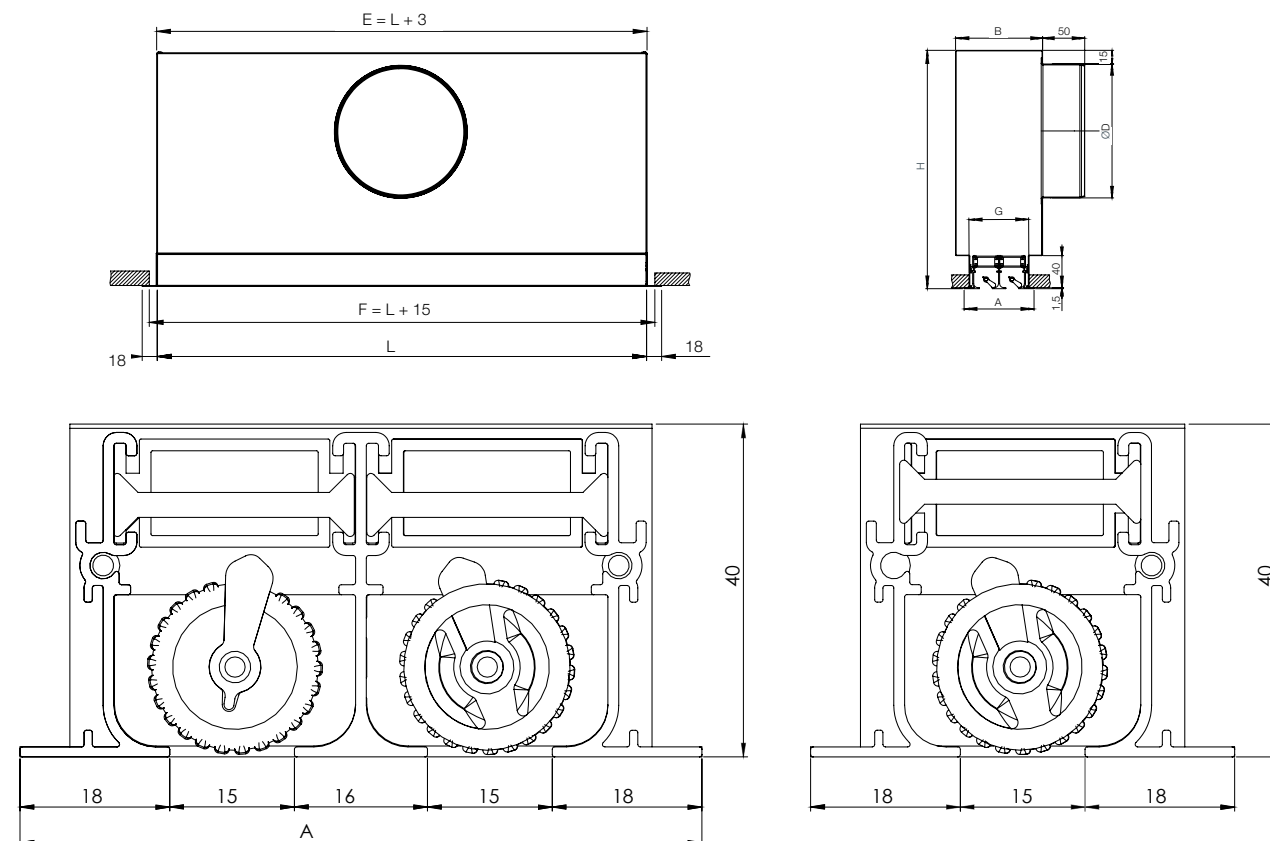
5.



6.



Don't push too hard on ceiling!



LDA

Linear diffuser with thin slots, horizontal or vertical airflow. Specially designed for ceiling installation. LDA airflow can be adjusted manually by rotating the directable deflector. Casing, frame and directable deflectors are made of aluminium

- Number of slots: 1 to 4
- 6 slot lengths as standard: 585, 885, 1000, 1185, 1485 and 1785 mm
- Deflector direction can be adjusted by thumb-wheel
- Plenum box,galvanized steel
- Discharge elemet is powder coted in RAL 9003, possible all standard RAL powder coating options for diffusers

- ▼ LDD Linear drum diffuser
- ▼ LDF Fixed linear diffuser
- ▼ LDM Slide adjustable linear diffuser
- ▼ LDA Rotate adjustable linear diffuser
- ▼ LDH Flush mounted linear diffuser



DIFFUSER \ LDA

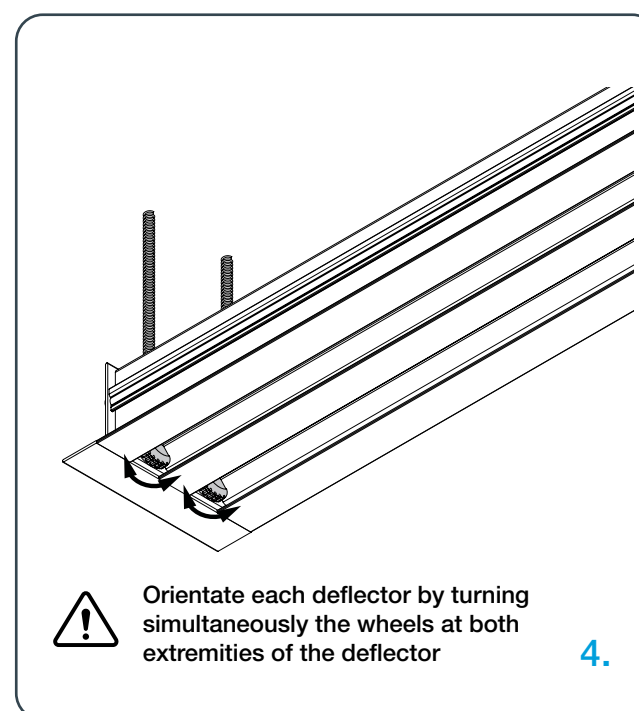
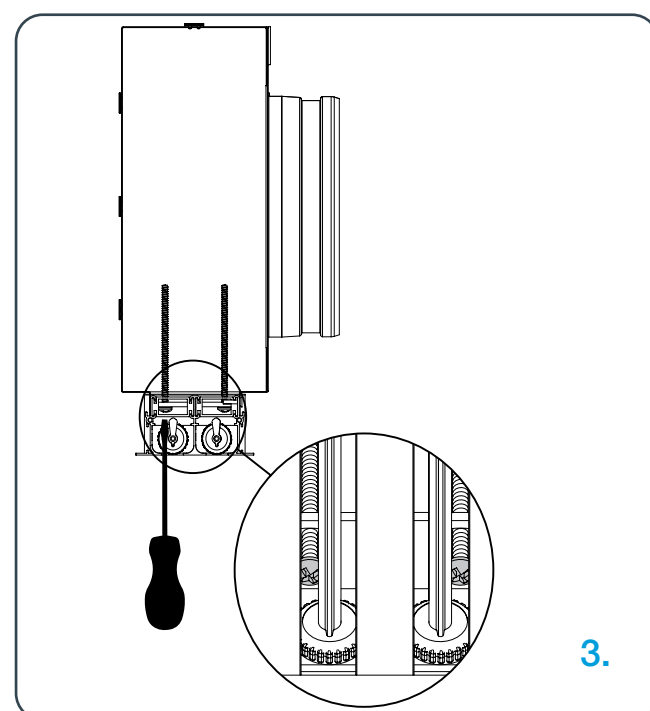
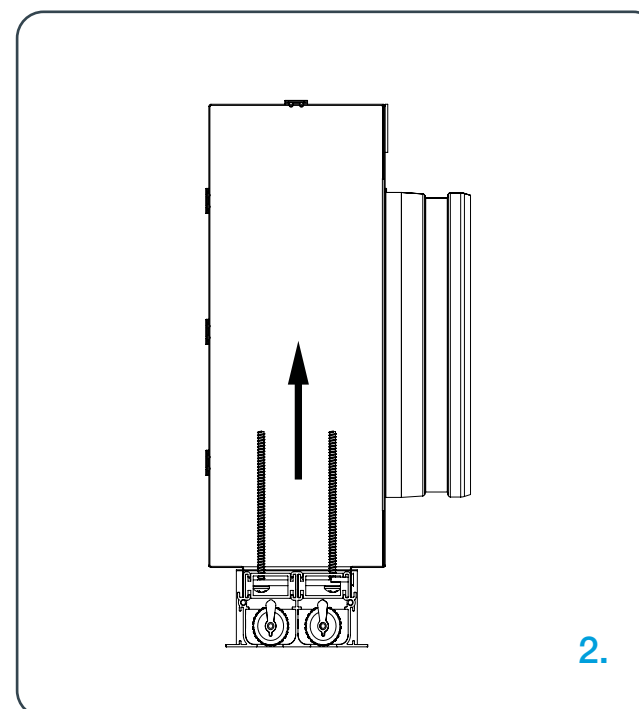
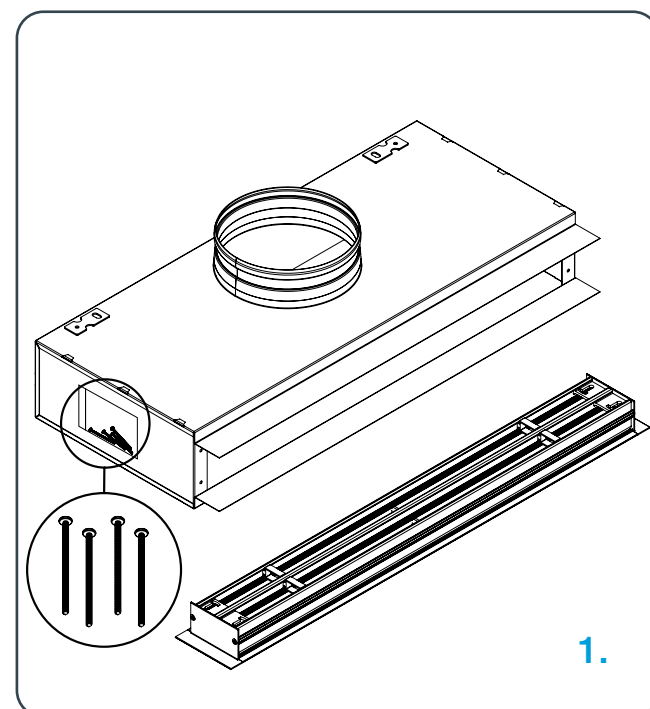
AIR DISTRIBUTION

DIMENSIONS	Type	No. of slots	L [mm]	V [m³/h]	H [mm]	B [mm]	G [mm]	A [mm]	No. of spigots
LDA	1		585	40 - 300	240	72	43	51	1 x Ø 123
			885						1 x Ø 123
			1 000						1 x Ø 123
			1 185						1 x Ø 158
			1 485						2 x Ø 123
			1 785						2 x Ø 123
	2		585	40 - 400	280	102	74	82	1 x Ø 158
			885						1 x Ø 158
			1 000						1 x Ø 158
			1 185						1 x Ø 198
			1 485						2 x Ø 158
			1 785						2 x Ø 158
	3		585	50 - 600	325	132	105	113	1 x Ø 158
			885						1 x Ø 198
			1 000						1 x Ø 198
			1 185						1 x Ø 198
			1 485						2 x Ø 158
			1 785						2 x Ø 158
	4		585	50 - 800	325	162	136	144	1 x Ø 198
			885						1 x Ø 198
			1 000						1 x Ø 198
			1 185						1 x Ø 198
			1 485						2 x Ø 158
			1 785						2 x Ø 198

ORDERING KEY

(1) Diffuser model	(2) Number of slots	(3) Diffuser length	(4) RAL	(5) Plenum box	(6) Insulation
LDA	-	2	-	1000	-
(1) LDA				PBL-A	-
(2) 1/2/3/4				(5) PBL-A	Z
(3) Diffusers length:		585 885 1000 1185 1485 1785		(6) Internal insulation	
(4) RAL					

Installation process LDA



- ▼ LDD Linear drum diffuser
- ▼ LDF Fixed linear diffuser
- ▼ LDM Slide adjustable linear diffuser
- ▼ LDA Rotate adjustable linear diffuser
- ▼ LDH Flush mounted linear diffuser



LDA DIFFUSER

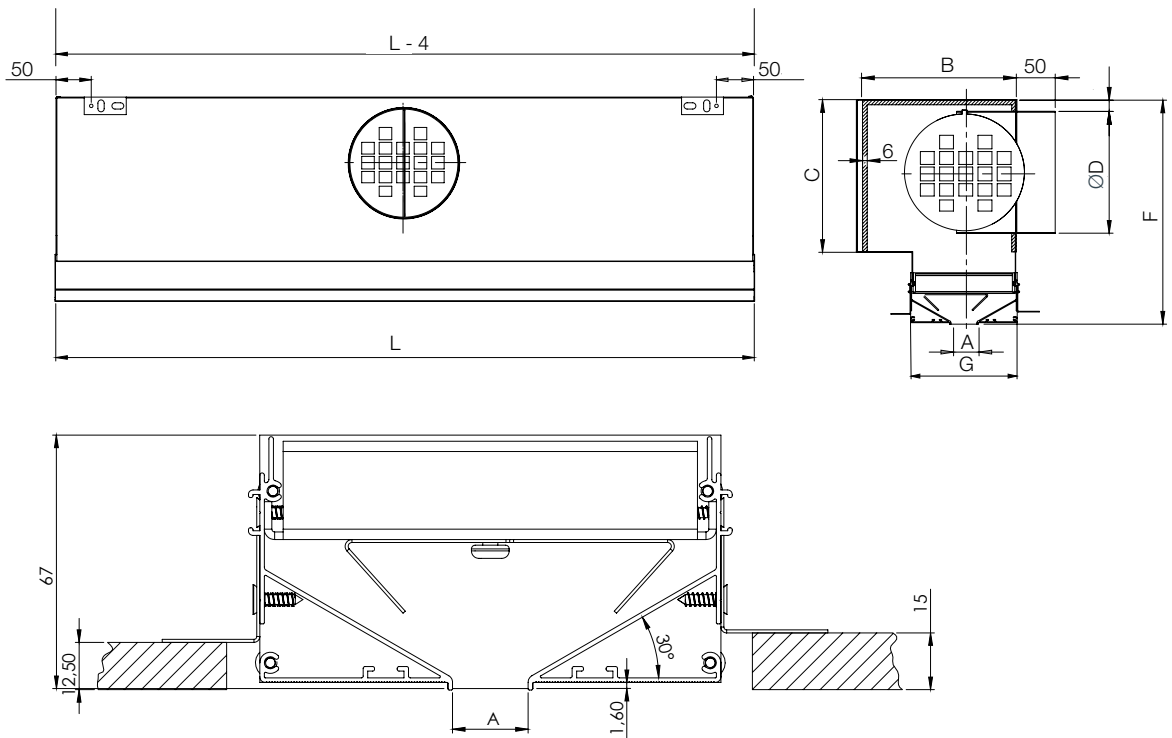
1. Inspect the products before the installation for transport damage and shortcomings. In case of any damage or shortcomings, immediately contact your supplier. Find the screws delivered with the product on the side of the plenum box.
2. Install the diffuser in the plenum box
3. Tighten the diffuser with the screwdriver
4. Adjust the deflectors by turning the wheels at the corners of the deflectors



LDH

Linear diffuser for plaster-in installation. LDH airflow can be adjusted manually by rotating the directable deflector. Ideal for reception areas in hotels. Casing and frame are made off steel and standard product is not powder coated because its installation is not visible.

- Ceiling diffuser for room heights to 4 m



- ▼ LDD Linear drum diffuser
- ▼ LDF Fixed linear diffuser
- ▼ LDM Slide adjustable linear diffuser
- ▼ LDA Rotate adjustable linear diffuser
- ▼ LDH Flush mounted linear diffuser



DIFFUSER \ LDH

AIR DISTRIBUTION

DIMENSIONS

Type	Diffuser			Plenum			
	L [mm]	A [mm]	G [mm]	B [mm]	C [mm]	F [mm]	øD [mm]
LDH	500	33	135	202	198	292	1 x Ø 158
	800						
	1000						
	500						1 x Ø 198
	800						
	1000						
	500	40	142	209	238	332	1 x Ø 158
	800						
	1000						
	500						1 x Ø 198
	800						
	1000						

ORDERING KEY

(1) Diffuser model (2) Slots widths (3) Diffuser length (4) Spigot diameter (5) RAL (6) Insulation

LDH	-	33	-	1000	-	160	-	RAL	-	Z
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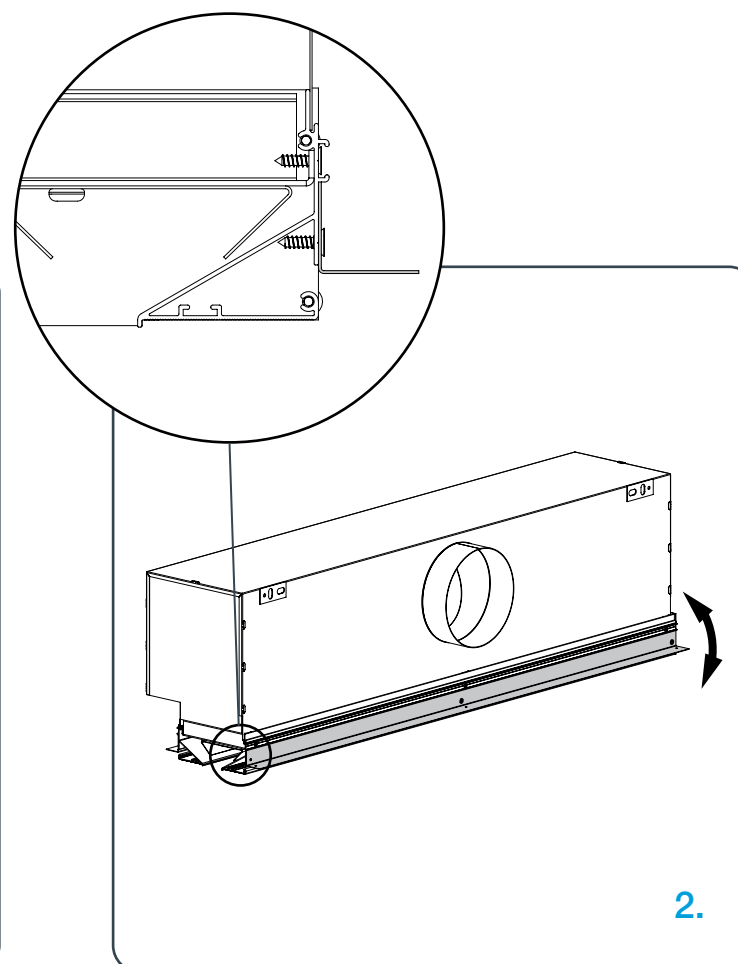
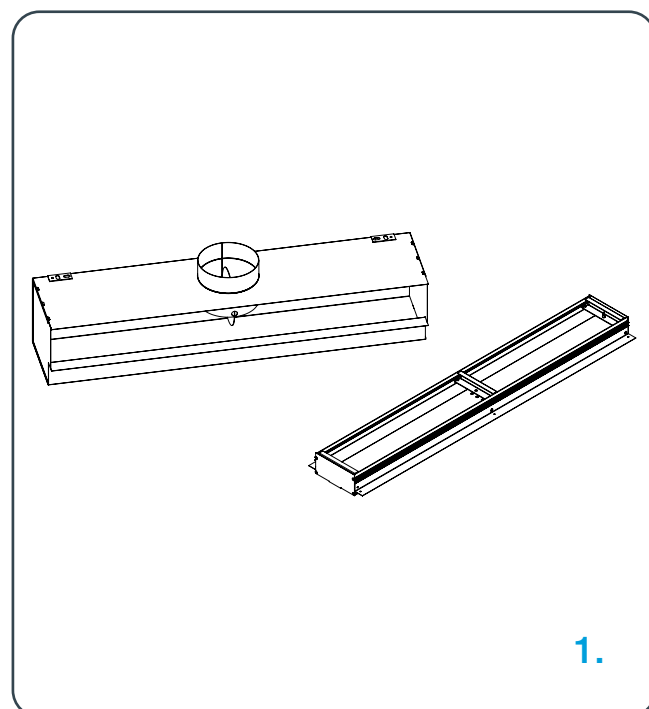
- (1) LDH (4) Spigot diameter: 160
200
- (2) Slots widths: 33
40 (5) RAL (optional)
- (3) Diffusers length: 500
800
1000 (6) Internal insulation - Z

ORDERING KEY LINEAR CONNECTION KIT

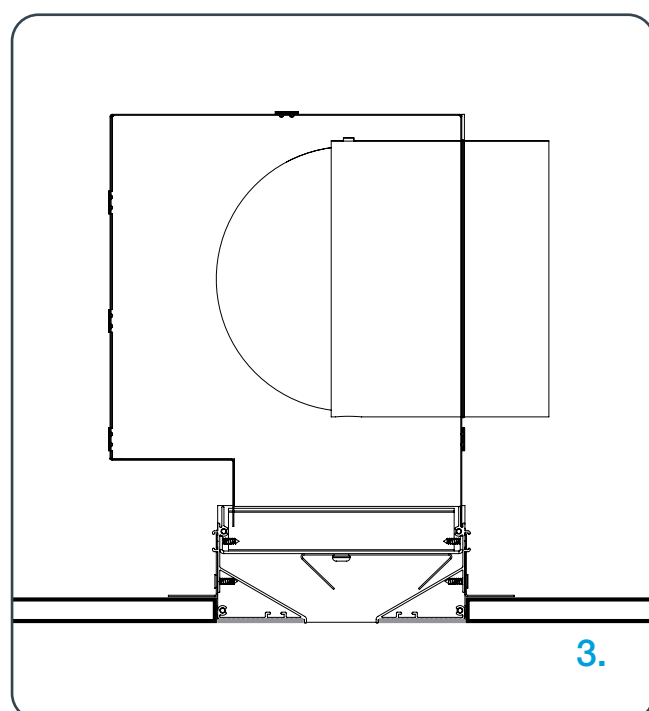
LDH-A	-	33	-	CK
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Slots widths: 33
40

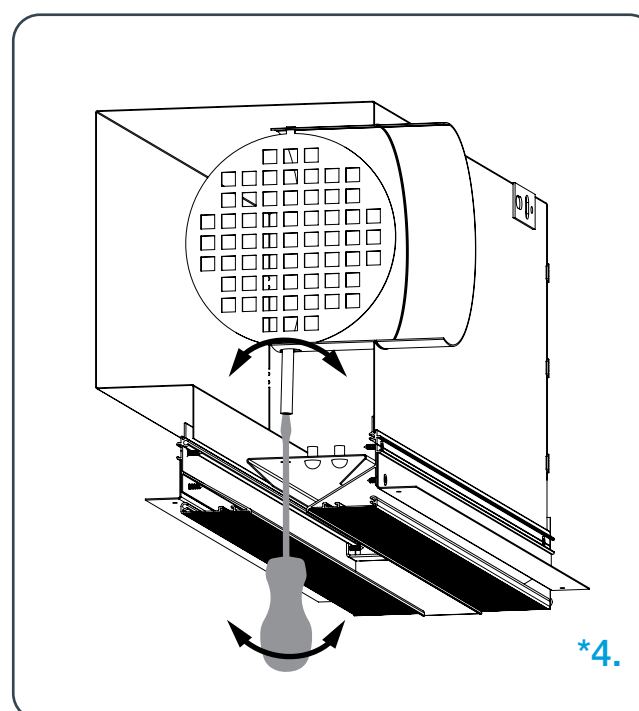
Installation process LDH



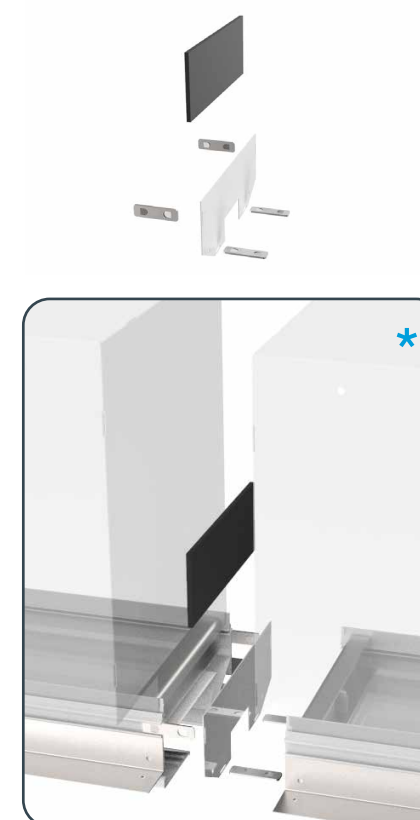
Turn the mounting profile according to the type of gypsum board (12,5 mm / 15 mm)!



Place on ceiling and close with plaster mesh!



*Rotation directable deflector!



- ▼ LDD Linear drum diffuser
- ▼ LDF Fixed linear diffuser
- ▼ LDM Slide adjustable linear diffuser
- ▼ LDA Rotate adjustable linear diffuser
- ▼ LDH Flush mounted linear diffuser



LDH DIFFUSER

1. Inspect the products before the installation for transport damage and shortcomings. In case of any damage or shortcomings, immediately contact your supplier. Find the screws delivered with the product on the side of the plenum box.
2. Install the diffuser in the plenum box
3. Place the diffuser and plenum on the ceiling and close the installation with plaster mesh.
4. Adjust the airflow volume by turning the regulating damper inside the plenum box with a screwdriver

* For installation of multiple diffusers in line, alignment pins, end plate and rubber insulation are provided with the diffuser. Insert an alignment pin (2 each per diffuser) on one side, install self-adhesive rubber pad on plenum box, insert plate and then connect the next diffuser to it.



AIR DISTRIBUTION

Images are for informational purposes only and may differ from the actual product.
Follow the latest versions of the catalog on the website.

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