

Linea

At Gerhman we are driven by a strong desire to continuously generate improvements. We do that by developing products and systems that are easy to use and energy efficient, together with industry-leading knowledge, support, logistics and efficient availability.



Linea



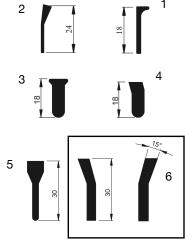
LINEA Linear grilles are mostly preferred products that are used in heating, cooling and ventilation systems because of their aesthetic appearance. They can be used as supply or exhaust grilles on air ducts in large spaces for heating and cooling. Besides, they are the mostly preferred products on and next to fan coils and radiators. The distance between the blades and the thickness of the profile that is used on blades provides a durable structure and the aesthetic appearance ensures ideal ventilation equipment. For the spaces when linear appearance is required, many grilles can be combined and long grilles can be formed as needed.

Properties

- They are used as supply and exhaust grilles on air ducts. *They can be manufactured with large and narrow cases. *Can be manufactured with or without frames.
 - Extruded aluminum profile is used.
- Blades are produced as 0° or 15° angle according to product type.
- They can be manufactured as anodized or with electrostatic powder coating (colors from RAL catalogue can be chosen).
- To adjust the blowing air damper can be added. Also, dampers can be manufactured with parallel or opposite blades.

* No	Model	Application
1	Linea S100	0° Angle Blade Standard Linear Grille For Wall and Ceiling
2	Linea S115	15° Angle Blade Standard Linear Grille For Wall and Ceiling
3	Linea S300	0° Angle Blade Standard Linear Grille For Floor, Wall and Ceiling
4	Linea S315	15° Angle Blade Standard Linear Grille For Floor, Wall and Ceiling
5	Linea S400	0° Angle Blade Special Floor Type Linear Grille for Data and System Room
6	Linea S415	15° Angle Blade Special Floor Type Linear Grille for Data and System Room

^{*} Specially designed blades according to product type

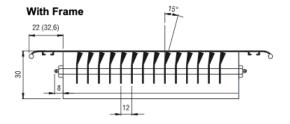


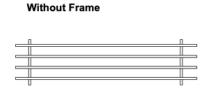
Linea

Standard Sizes

Each grille is named by W*H

w	300	500	500 500 750		750	1000	1000	1000	1000
Н	75	75	150	150	250	150	250	300	500





Installation

Screw system is the standard mounting type, however according to the application place, there are different mounting types as; Clip system and Plate spring system.

Screw Mounting

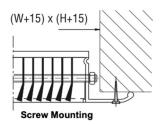
It is the standard mounting type and with the holes on the frame for $\emptyset 4 \text{mm}$ they can be installed. They can be used without screws on radiators.

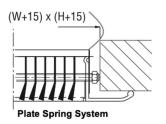
Plate Spring System

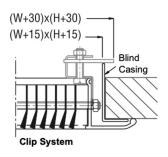
They are good solutions for deep surfaces. This type of mounting is done by steel plates on the side surfaces of the grilles case. They can be used with or without case.

Installation with Clip System

They can be applied with blind case. Blind case is mounted to mounting holes. For mounting, clip mounted on the grille and by the help of screwdriver clip installed to the blind casing







Plaster-in Linear Grilles

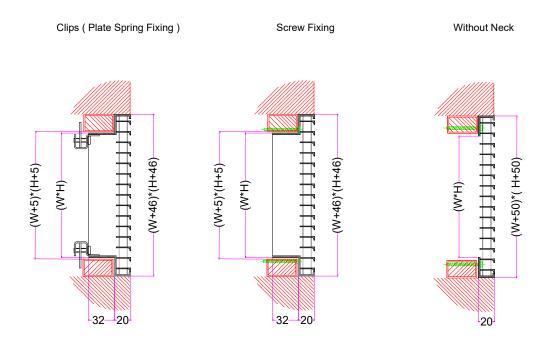
Linea S100 / S300 (+ZC)



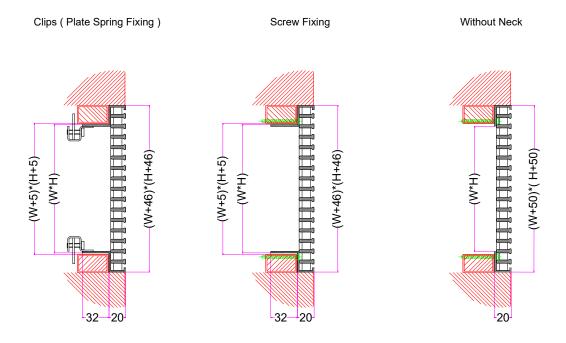
Framless Linear Grilles

Linea S100 / S300 (+ZC)

Linea S100+ZC

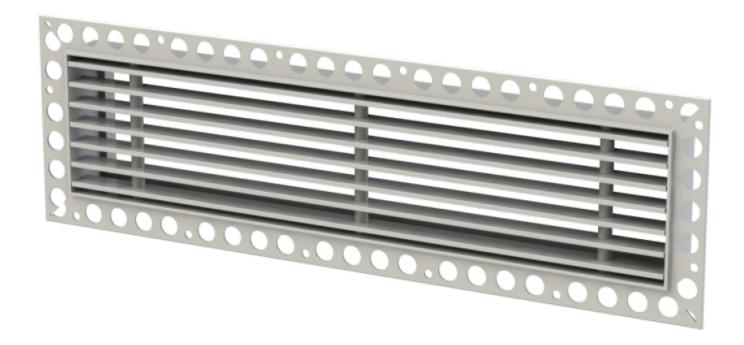


Linea S300+ZC



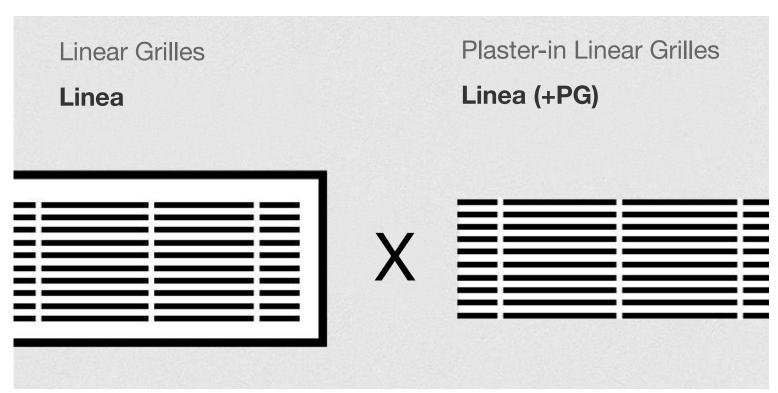
Plaster-in Linear Grilles

Linea (+PG)



General Information

Linea (+PG)



Looking for a cleaner, more streamlined grille construction in your project?

Linea+PG grilles might be the ideal solution for you. The flush finish provided by this implementation leaves your walls looking pristine, while still allowing for incredible airflow and efficiency. It transforms your linear bar grilles from a standard, low-budget look into a timeless (and seamless) integration with the rest of the room.

Some of the great features that put our +PG grilles above the rest:

- •Borderless installation, even on curved surfaces.
- •Achieve a Level 5 plaster finish.
- •Pre-punched holes for quick mounting. Add plaster and smooth it out!
- •Aluminum, bronze or stainless steel options.

Plaster-in Linear Grilles

Linea (+PG)



New frame for linear bar grilles which is designed to be plastered in giving a seamless appearance once installed. New plaster-in frame uses or ordering additional code '+PG'. Linea+PG have been designed to satisfy air diffusion and engineering requirements while providing a narrow plaster-in border to meet architectural specifications. Plasterline grilles may be used in modular or continuous situations for sidewall, cill or bulkhead applications. The range is available with a wide variety of special options and fabrications to suit most project requirements. All applications can be achieved with the use of a standard fixed core version.

Description

- *New frame for linear bar grilles which is designed to be plastered in giving seamless appearance once installed.
- *The front border is designed to integrate seamlessly within plasterboard builders work opening, with a concealed screw fix installation.
- *Blades are produced as 0° or 15° angle according to product type.
- *They can be manufactured as anodized or with electrostatic powder coating (colors from RAL catalogue can be chosen).
- *To adjust the blowing air damper can be added. Also, dampers can be manufactured with parallel or opposite blades.

* No	Model	Application	1	
1	Linea+PG S100	0° Angle Blade Standard Linear Grille For Wall and Ceiling	24	9
2	Linea+PG S115	15° Angle Blade Standard Linear Grille For Wall and Ceiling	I	

^{*} Specially designed blades according to product type



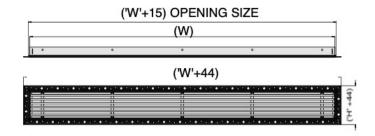
General Information

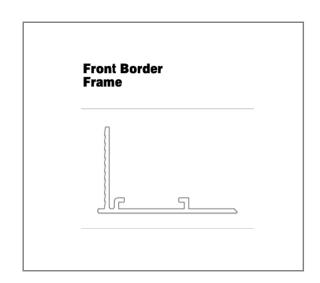
Linea (+PG)

Sizes

Single Module

W = 150 - 2400 mm

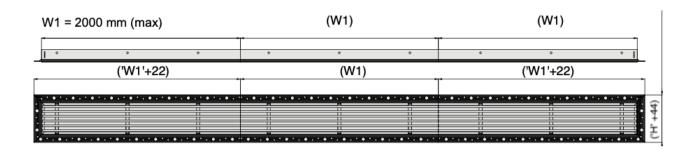




Nominal Height For Single and Multi Module

H Min= 50 mm H Max = 800 mm

Multi Module



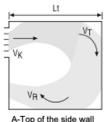
w	300	500	500	750	750	1000	1000	1000	1000
н	75	75	150	150	250	150	250	300	500

Linea

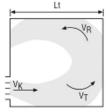


Linea / Linea+PG S115

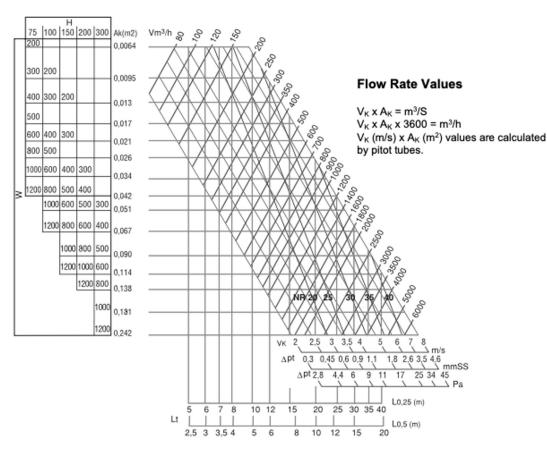
15° Angle Blade Standard Linear Grille For Wall and Ceiling



A-Top of the side wall



B-Bottom of the side wall

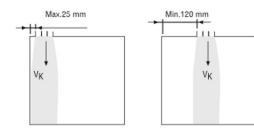


Correction Factor V_T

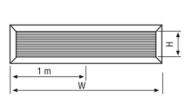
V _T (r	n/s)	0,25	0,375	0,5	0,625
1+	Α	x1	x0,67	x0,5	x0,4
Ľ	В	x0,7	x0,47	x0,35	x0,28

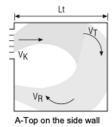
Linea / Linea+PG S100

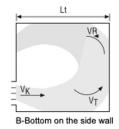
0° Angle Blade Standard Linear Grille For Wall and Ceiling

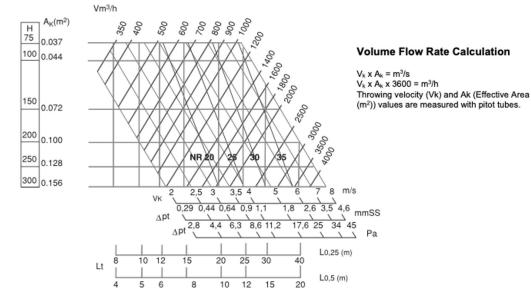


All datas in the selection graph had given for 1m length









For Correction Factor W W (m) 1 1,5 2 2,5 3 4 5 6 8 10 Lt (m) x1 x1,05 x1,1 x1,15 NR 0 +2 +3 +4 +5 +6 +7 +8 +9 +10

Correction Factor V _T													
V _T (m	/s)	0,25	0,375	0,5	0,625								
	Α	x1	x0,67	x0,5	x0,4								
Lt	В	x0,7	x0,47	x0,35	x0,28								

Floor Linear Grilles

Linea S300, S315, S400, S415



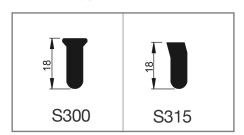
Floor Linear Grilles

Linea S300, S315

These types of grilles are used for every purposes which needs decorative conditions. S300 and S315 type linear grilles, are also named as floor grilles. S300 type linear grilles, have the same properties with S315. The only difference is they have 15° blade angle. They can be also used for walls and ceilings.



Blade Types

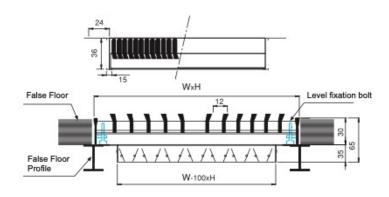


Standard Sizes

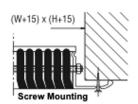
Each grille is named by W*H

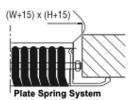
								1000	
Н	75	75	150	150	250	150	250	300	500

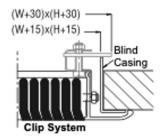
Floor Installation



Wall, Ceiling Installation

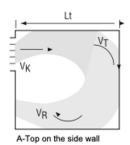


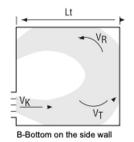


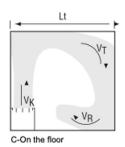


Linea S300

0° Angle Blade Standard Linear Grille For Wall and Ceiling



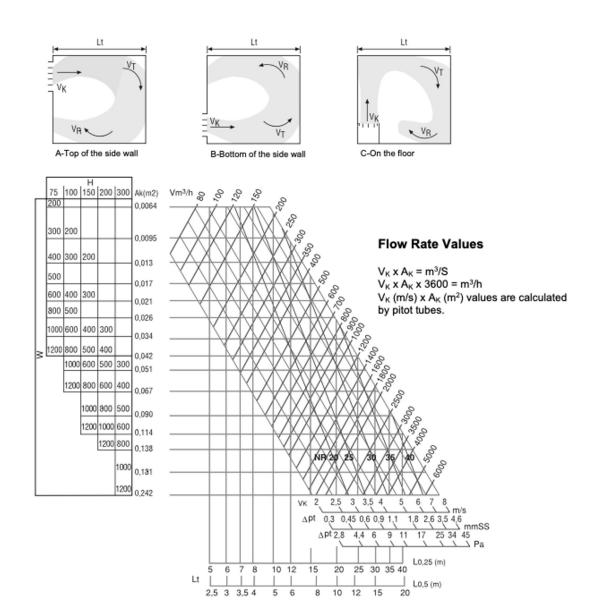




LN	1200	LM	200-	300-40	00	ı	LM200		Vm³/h
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1000	600	500						0,015	***
1200	800	600	400	300	200			0,018	
	1000	800	500					0,022	Q_ V / N / N / N / N / N / N / N / N
	1200	1000	600	400	300			0,029	
		1200	800	500	400			0,036	
≥			1000	600	500	300		0.044	
			1200	800	600	400	Ш,	0,057	
				1000	800	500	400		
				1200	1000	600	500),077	
				-	-	-	600	,097	
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						Н	щч),154	NA 32 25 30 35 46 3 3 35 46
						1200	\dashv	,205	
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									** \ \ \ \ \ \ \ \ \ \ \ \ m/s
									0,3 0,45 0,6 0,9 1,1 1,8 2,6 3,5 4,6 mm Apt 2,8 4,4 6 9 11 17 25 34 45
_		_							ДРГ 2,6 4,4 6 9 11 17 25 34 45
	ectio	Т			_	0.5	0.625	٦	5 6 7 8 10 12 15 20 25 30 35 40 L0,25 (m)
VT (m/s)	0,2	\rightarrow	0,375 x0,67	-	0,5 x0,5	0,625 x0,4	+	Lt
Lt		x0.	\rightarrow	x0,67	+	xu,5 (0,35	_	+	2,5 3 3,5 4 5 6 8 10 12 15 20
		,	.	70,41	<u>'</u>	.0,00	70,20		

Linea S315

15° Angle Blade Standard Linear Grille For Wall and Ceiling



Correction Factor V_T

V _T (r	n/s)	0,25	0,375	0,5	0,625		
Lt	Α	x1	x0,67	x0,5	x0,4		
Ľ	В	x0,7	x0,47	x0,35	x0,28		

Floor Linear Grilles

Linea S400 S415

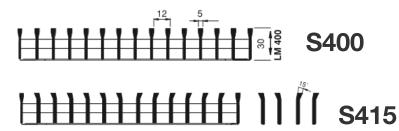
FOR DATA AND SYSTEM ROOMS. They are used in places with acclimatization's from floor. This type of mounting is done by steel plates on the side surfaces of the grilles case. The damper that is used to adjust air flow can be controlled easily from the top. According to the order, dampers can be parallel with the long or the short corner. If requested, dust holding filter can be added.

S400 type linear grilles; they are also named as floor grilles. S415 type linear grilles; has the same properties with S400. The only difference is they have 15° blade angle.

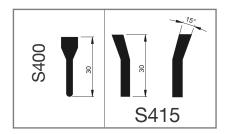
Standard Sizes

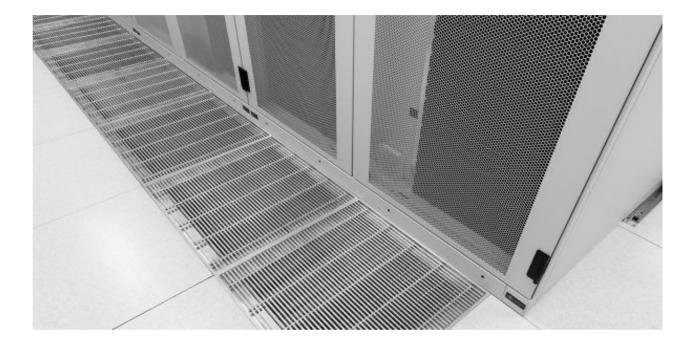
Each grille is named by W*H

W	600	600	600
Н	100	150	200



Blade Types

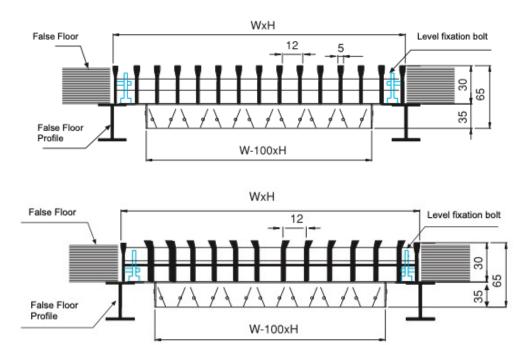




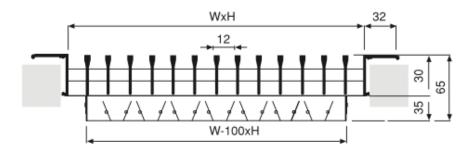
Installation

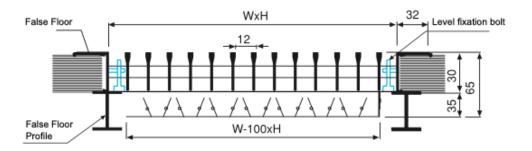
Linea S400 S415

False Floor Frameless Type Linear Grille With Damper



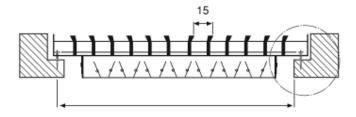
False Floor Framed Type Linear Grille With Damper





Installation

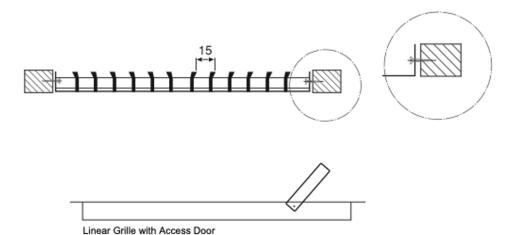
Linea S400, S415

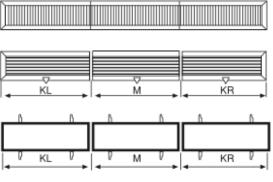


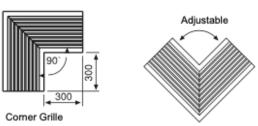


Frameless Type Mounting

Linear grilles that are manufactured without frames are fit into special blind cases. After that blind cases are fixed with screws.







Serial Mounting

For the linear grilles that are added together are mounted serially. The images in the connections are reduced to minimum level and a good appearance is obtained. Also, 90° and 135° angled corner linear grilles are used for connection.

KL- Left Corner

M - Middle

KR- Right Corner

Corner Grille

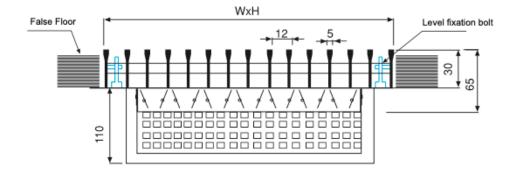
They are used for connections at ceilings, floor applications and wall joints. There are no dampers at corners and they can be manufactured with the requested angles.

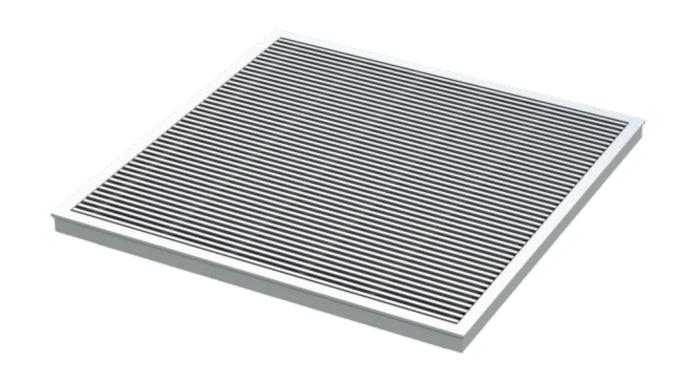
Accessories

Linea S400, S415

False Floor Linear Grille With Damper and Dust Collecting Casing

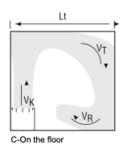


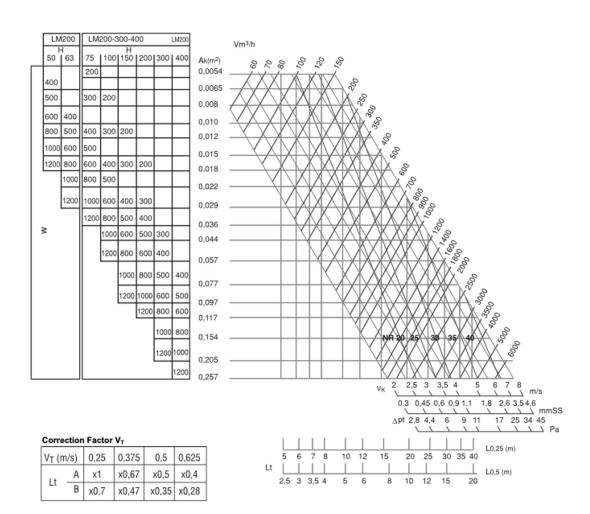




Linea S400

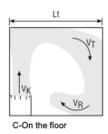
0° Angle Blade Standard Linear Grille For Wall and Ceiling

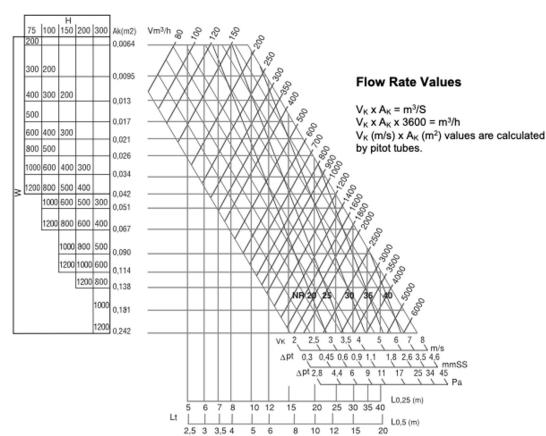




Linea S415

15° Angle Blade Standard Linear Grille For Wall and Ceiling





Correction Factor V_T

V _T (r	n/s)	0,25	0,375	0,5	0,625
Lt	Α	x1	x0,67	x0,5	x0,4
Ľ	В	x0,7	x0,47	x0,35	x0,28

Accessories

Linea

OD calibration damper

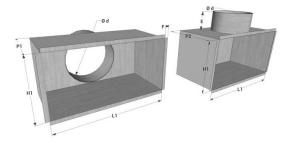
OD calibration damper with fins with opposing movement

Installation sub frame



Plenum box

- •Can be used for both supply and extract air
- •Easy-to-detach the grilles for access to the plenum
- •Same box used for several type of grilles
- •Special lip bend allow an easy clips mounting of all grilles model



All dimensions are espressed in mm.

model L1 x H1	up	per air connecti	ion	S	ide air connectio	n	-	_	model L1 x H1	up	per air connecti	on	S	ide air connectio	n	E	_
moderLIXHI	P1	n° connection	Ød	P2	n° connection	Ød	=	F	moderLixHi	P1	n° connection	Ød	P2	n° connection	Ød		F
200x100	200	1	98	200	1	98	80	12	1000x200	200	2	198	300	2	198	80	12
300x100	200	1	98	200	1	98	80	12	300x300	200	1	248	350	1	248	80	12
400x100	200	2	98	200	2	98	80	12	400x300	200	1	248	350	1	248	80	12
500x100	200	2	98	200	2	98	80	12	500x300	200	1	248	350	1	248	80	12
600x100	200	2	98	200	2	98	80	12	600x300	200	2	198	350	2	248	80	12
800x100	200	2	98	200	2	98	80	12	800x300	200	2	248	350	2	248	80	12
200x200	200	1	198	300	1	198	80	12	1000x300	200	2	248	350	2	248	80	12
300x200	200	1	198	300	1	198	80	12	400x400	200	1	298	350	1	298	80	12
400x200	200	1	198	300	1	198	80	12	500x400	200	1	298	350	1	298	80	12
500x200	200	1	198	300	1	198	80	12	600x400	200	2	198	350	2	248	80	12
600x200	200	2	198	300	2	198	80	12	800x400	200	2	298	350	2	298	80	12
800x200	200	2	198	300	2	198	80	12	1000x400	200	2	298	400	2	298	80	12
560x560	121	-	-	300	1	248	80	12									

SELECTION GUIDE										
Spigot Velocity (m/s)	1,5	2	2,5	3	3,5	4	4,5	5	6	
Pressure Drop (Pa)	2	4	6	8	12	16	20	28	36	

^{*}The pressure drop given is for supply diffuser with damper fully open.

When the diffuser is installed with plenum box the pressure loss of the box has to be added to the diffuser.





Linea



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