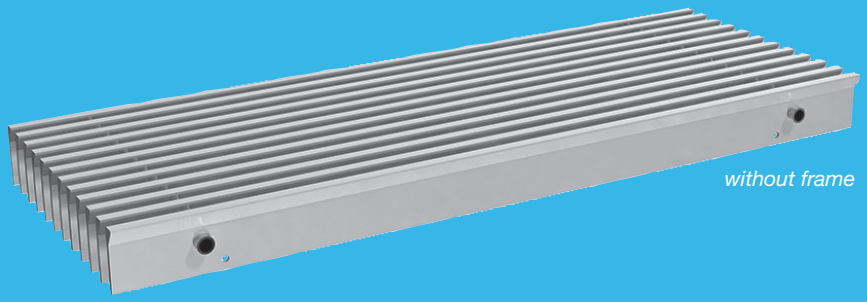
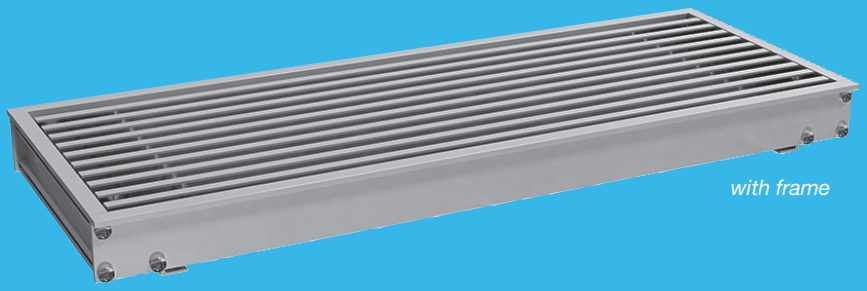


without frame



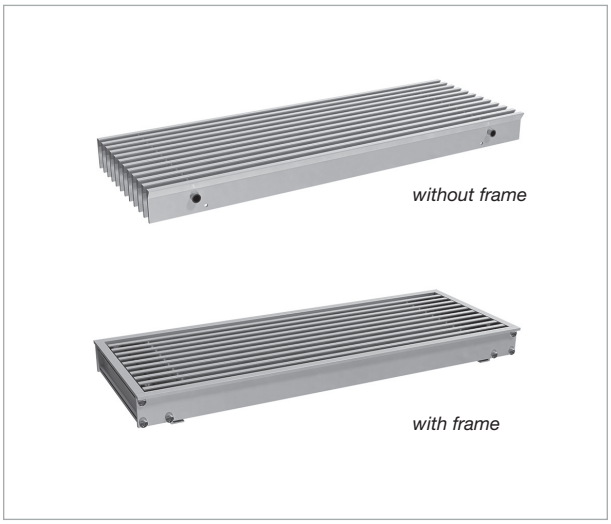
with frame

UP

Pedestrian grille

Lindab®

Pedestrian grille UP



Description

The UP series consists of a range of pedestrian grilles suitable both for air supply and extraction.
Two available models: UP0 for vertical throw and UP1 for 15 ° inclined throw. The ideal solution for floor heating or air conditioning providing excellent temperature uniformity inside the room.

The mechanical strength is classified according to EN 13264 in the “light” class. This resistance class is the maximum achievable in aluminium and allows to support, on a 630x630mm grille, a concentrated load of up to 450 kg in the middle without breaking and up to 150 kg without damage.

The installation is done by simply placing the grille in the gap in the floor. The quick task of removing and replacing the grille facilitates ordinary maintenance jobs.

Materials and finish

Blades made from anodized aluminium.
frame made from anodized aluminium.
Connection elements made from carbon steel.
Supports or regulation screws made from carbon steel.

Available models

UP..AB	grille without frame, fixed height 30 mm
UP..AP	grille without frame, adjustable height 30-52 mm
UP..AC	grille with frame, fixed height 30 mm
UP..AT	grille with frame, adjustable height 30-52 m

Available sizes

H \ B	200 ↔ 1200
100 ↕ 600	

Accessories

SCUP..B	Damper for pedestrian grille type UP...B
SCUP..P	Damper for pedestrian grille type UP...P
SCUP..T	Damper for pedestrian grilles type UP...C and UP...T
UPR-BP	Dust basket for pedestrian grille type UP..B e UP..P
UPR-CT	Dust basket for pedestrian grille type UP..C e UP..T

Ordering example

UP	0	800	200	A	B	NN

Tipo

0 fixed grid 0°
1 fixed grid 15°

Base

Height

A anodized aluminium

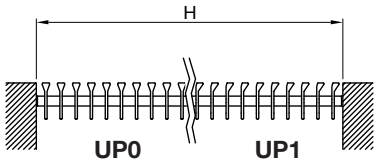
B no frame - fixed height 30 mm
P no frame - adjustable height 30-52 mm
C grille with frame - fixed height 30 mm
T grille with frame - adjustable height 30-52 mm

NN no predisposion for damper
SV with predisposion for damper

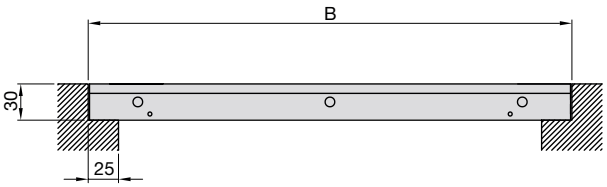
NOTE FOR RAISED SUPPORTED FLOORS
Since there is no unification of raised supported floors, the use of grilles size 600x600mm within these floors is normally possible only in versions with fixed or adjustable blades.If the damper is required, the size most compatible with elevated supported floors is 525x525mm, code SCUP-0525525.
It is nevertheless recommended to communicate the characteristics of the raised floor in order to identify the most suitable solution.

Pedestrian grille UP

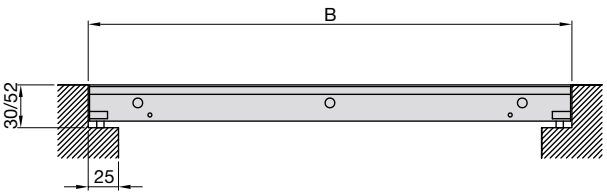
Dimensions



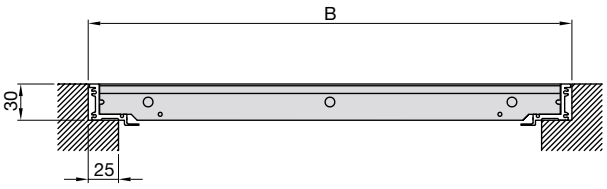
UP...B
No frame, fixed height



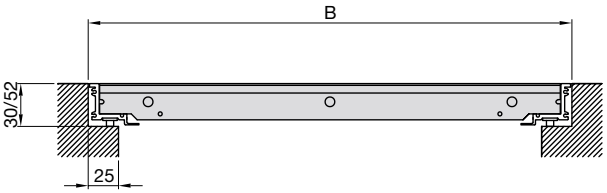
UP...P
No frame, adjustable height



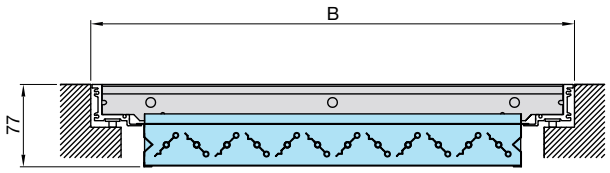
UP..C
Grille with frame, fixed height



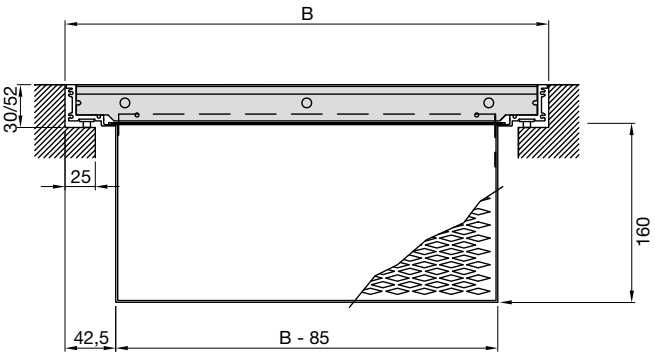
UP..T
Grille with frame, adjustable frame



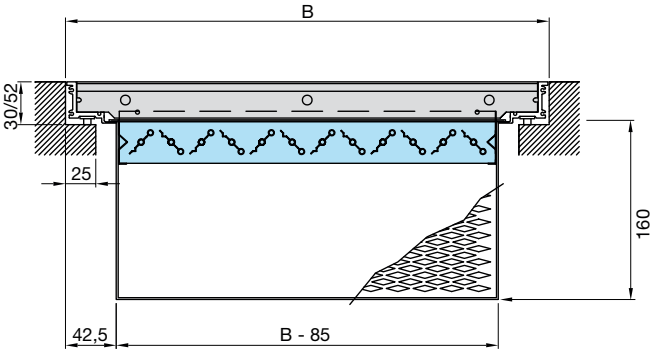
SCUP...
Opposed blade damper



UPR
Dust gasket

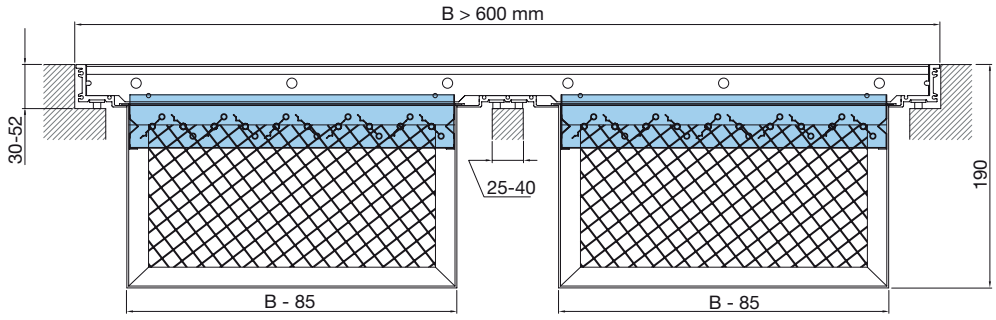


SCUP.. + UPR



Pedestrian grille UP

Dimensions



UP grilles with B > 600 are certified according to UNI EN 13264 standard, ONLY if the grilles are installed complete with frame and central support. (Max. width of 40 mm).

Pedestrian grille UP

Quick selection - UP0 with frame, vertical throw, supply air

	B x H (mm)		Airflow (m³/h)																	
	A_k (m²)		100	150	200	250	300	350	400	500	600	700	800	900	1000	1250	1500	2000	2500	3500
H = 100	300x100 (0,0083)	L_{wa} [dB(A)]	22	33	41	47														
		V_{eff} [m/s]	3,4	5,1	6,7	8,3														
		ΔPt [Pa]	9	20	35	54														
		$L_{0,20}$ [m]	3,6	5,4	7,2	8,9														
	400x100 (0,0112)	L_{wa} [dB(A)]	<20	26	34	40	45	49												
		V_{eff} [m/s]	2,5	3,7	5	6,1	7,4	8,6												
		ΔPt [Pa]	5	11	19	29	43	58												
		$L_{0,20}$ [m]	3,1	4,6	6,2	7,6	9,2	10,7												
	500x100 (0,0142)	L_{wa} [dB(A)]		20	28	34	39	44	48											
		V_{eff} [m/s]		3	3,9	4,9	5,9	6,8	7,8											
		ΔPt [Pa]		7	12	18	27	36	48											
		$L_{0,20}$ [m]		4,1	5,5	6,8	8,2	9,5	10,9											
	600x100 (0,0172)	L_{wa} [dB(A)]		<20	24	30	35	39	43	49										
		V_{eff} [m/s]		2,4	3,3	4	4,8	5,6	6,5	8,1										
		ΔPt [Pa]		5	8	13	18	25	33	51										
		$L_{0,20}$ [m]		3,7	5	6,2	7,4	8,7	9,9	12,4										
H = 150	300x150 (0,0167)	L_{wa} [dB(A)]		<20	24	30	35	40	44	50										
		V_{eff} [m/s]		2,5	3,4	4,1	5	5,8	6,6	8,3										
		ΔPt [Pa]		5	9	13	19	26	34	54										
		$L_{0,20}$ [m]		3,8	5,1	6,2	7,5	8,8	10	12,6										
	400x150 (0,0226)	L_{wa} [dB(A)]			<20	23	28	33	36	43	48									
		V_{eff} [m/s]			2,5	3,1	3,7	4,3	4,9	6,2	7,4									
		ΔPt [Pa]			5	7	11	14	19	30	43									
		$L_{0,20}$ [m]			4,4	5,4	6,5	7,6	8,6	10,8	13									
	500x150 (0,0285)	L_{wa} [dB(A)]			<20	<20	23	27	31	37	42	47	50							
		V_{eff} [m/s]			2	2,4	2,9	3,4	3,9	4,9	5,9	6,8	7,8							
		ΔPt [Pa]			3	5	7	9	12	19	27	36	47							
		$L_{0,20}$ [m]			3,9	4,8	5,7	6,7	7,7	9,6	11,6	13,4	15,4							
	600x150 (0,0346)	L_{wa} [dB(A)]				<20	<20	23	26	33	38	42	46	49						
		V_{eff} [m/s]				2	2,4	2,8	3,2	4	4,8	5,6	6,4	7,2						
		ΔPt [Pa]				3	5	6	8	13	18	25	32	41						
		$L_{0,20}$ [m]				4,3	5,2	6,1	7	8,7	10,5	12,2	14	15,7						
H = 200	400x200 (0,034)	L_{wa} [dB(A)]				<20	<20	23	27	33	38	43	46	50						
		V_{eff} [m/s]				2	2,4	2,9	3,3	4,1	4,9	5,7	6,5	7,4						
		ΔPt [Pa]				3	5	6	8	13	19	25	33	42						
		$L_{0,20}$ [m]				4,4	5,3	6,2	7	8,8	10,6	12,3	14,1	15,9						
	500x200 (0,0429)	L_{wa} [dB(A)]					<20	<20	21	28	33	37	41	44	47					
		V_{eff} [m/s]					1,9	2,3	2,6	3,2	3,9	4,5	5,2	5,8	6,5					
		ΔPt [Pa]					3	4	5	8	12	16	21	26	33					
		$L_{0,20}$ [m]					4,7	5,5	6,3	7,9	9,4	11	12,5	14,1	15,7					
	600x200 (0,0519)	L_{wa} [dB(A)]						<20	<20	23	28	32	36	40	43	49				
		V_{eff} [m/s]						1,9	2,1	2,7	3,2	3,7	4,3	4,8	5,4	6,7				
		ΔPt [Pa]						3	4	6	8	11	14	18	22	35				
		$L_{0,20}$ [m]						5	5,7	7,1	8,6	10	11,4	12,8	14,3	17,8				
	800x200 (0,0702)	L_{wa} [dB(A)]								<20	21	25	29	32	35	42	47			
		V_{eff} [m/s]								2	2,4	2,8	3,2	3,6	4	4,9	5,9			
		ΔPt [Pa]								3	4	6	8	10	12	19	28			
		$L_{0,20}$ [m]								6,1	7,4	8,6	9,8	11	12,3	15,3	18,4			
	1000x200 (0,0887)	L_{wa} [dB(A)]								<20	<20	20	23	27	30	36	41	49		
		V_{eff} [m/s]								1,6	1,9	2,2	2,5	2,8	3,1	3,9	4,7	6,3		
		ΔPt [Pa]								2	3	4	5	6	8	12	17	31		
		$L_{0,20}$ [m]								5,5	6,6	7,6	8,7	9,8	10,9	13,6	16,4	21,8		
H = 300	500x300 (0,0716)	L_{wa} [dB(A)]								<20	20	25	29	32	35	41	46			
		V_{eff} [m/s]								1,9	2,3	2,7	3,1	3,5	3,9	4,8	5,8			
		ΔPt [Pa]								3	4	6	7	10	12	18	26			
		$L_{0,20}$ [m]								6,1	7,3	8,5	9,7	10,9	12,2	15,2	18,2			
	600x300 (0,0867)	L_{wa} [dB(A)]								<20	<20	20	24	27	30	37	42	50		
		V_{eff} [m/s]								1,6	1,9	2,2	2,6	2,9	3,2	4	4,8	6,4		
		ΔPt [Pa]								2	3	4	5	6	8	12	18	32		
		$L_{0,20}$ [m]								5,5	6,6	7,7	8,8	9,9	11	13,8	16,6	22,1		
	800x300 (0,1172)	L_{wa} [dB(A)]										<20	<20	20	23	29	35	43	49	
		V_{eff} [m/s]										1,7	1,9	2,1	2,4	3	3,6	4,7	5,9	
		ΔPt [Pa]										2	3	4	4	7	10	18	27	
		$L_{0,20}$ [m]										6,6	7,6	8,5	9,5	11,9	14,3	19	23,7	
	1000x300 (0,1481)	L_{wa} [dB(A)]											<20	<20	<20	24	29	37	43	
		V_{eff} [m/s]											1,5	1,7	1,9	2,3	2,8	3,8	4,7	
		ΔPt [Pa]											2	2	3	4	6	11	17	
		$L_{0,20}$ [m]											6,7	7,6	8,5	10,6	12,7	16,9	21,1	
H = 500	500x500 (0,129)	L_{wa} [dB(A)]										<20	<20	<20	21	27	32	40	47	
		V_{eff} [m/s]										1,5	1,7	1,9	2,2	2,7	3,2	4,3	5,4	
		ΔPt [Pa]										2	2	3	4	6	8	14	23	
		$L_{0,20}$ [m]										6,3	7,2	8,1	9,1	11,3	13,6	18,1	22,6	
H = 600	600x600 (0,191)	L_{wa} [dB(A)]													<20	<20	23	31	37	47
		V_{eff} [m/s]													1,5	1,8	2,2	2,9	3,6	5,1
		ΔPt [Pa]													2	3	4	7	10	20
		$L_{0,20}$ [m]													7,4	9,3	11,2	14,9	18,6	>25

Data valid for:
- Supply
- Data in isothermal conditions

A_k = effective free area
V_k = effective face velocity
Δpt = total pressure loss
L_{WA} = sound power level
$L_{0,2}$ = throw to terminal velocity at 0,2 m/s

$10 \le L_{WA} < 30$
$30 \le L_{WA} < 40$
$40 \le L_{WA} < 50$

Pedestrian grille UP

Technical data

Effective area Ak (m²)

UP without frame

Height - H	Base - B 200	300	350	400	450	500	550	600	650	700
600	0,061	0,094	0,111	0,127	0,144	0,161	0,177	0,194	0,211	0,229
550	0,056	0,086	0,101	0,116	0,131	0,146	0,162	0,177	0,193	0,208
500	0,050	0,077	0,091	0,104	0,118	0,132	0,146	0,160	0,174	0,188
450	0,045	0,069	0,081	0,093	0,105	0,118	0,130	0,142	0,155	0,167
400	0,039	0,060	0,071	0,082	0,092	0,103	0,114	0,125	0,136	0,147
350	0,034	0,052	0,061	0,070	0,080	0,089	0,098	0,108	0,117	0,126
300	0,029	0,044	0,051	0,059	0,067	0,074	0,082	0,090	0,098	0,106
250	0,023	0,035	0,041	0,048	0,054	0,060	0,066	0,073	0,079	0,086
200	0,018	0,027	0,031	0,036	0,041	0,046	0,051	0,055	0,060	0,065
150	0,012	0,018	0,022	0,025	0,028	0,031	0,035	0,038	0,041	0,045
100	0,007	0,010	0,012	0,013	0,015	0,017	0,019	0,021	0,022	0,024

Height - H	Base - B 750	800	850	900	950	1000	1050	1100	1150	1200
600	0,246	0,263	0,280	0,297	0,315	0,332	0,350	0,367	0,385	0,402
550	0,224	0,239	0,255	0,271	0,287	0,302	0,318	0,334	0,350	0,366
500	0,202	0,216	0,230	0,244	0,258	0,273	0,287	0,301	0,316	0,330
450	0,180	0,192	0,205	0,218	0,230	0,243	0,256	0,269	0,281	0,294
400	0,158	0,169	0,180	0,191	0,202	0,213	0,225	0,236	0,247	0,258
350	0,136	0,145	0,155	0,164	0,174	0,184	0,193	0,203	0,213	0,222
300	0,114	0,122	0,130	0,138	0,146	0,154	0,162	0,170	0,178	0,186
250	0,092	0,098	0,105	0,111	0,118	0,124	0,131	0,137	0,144	0,151
200	0,070	0,075	0,080	0,085	0,090	0,095	0,100	0,105	0,110	0,115
150	0,048	0,051	0,055	0,058	0,062	0,065	0,068	0,072	0,075	0,079
100	0,026	0,028	0,030	0,032	0,033	0,035	0,037	0,039	0,041	0,043

Pedestrian grille UP

Technical data

Effective area Ak (m^2)

UP with frame

Height - H	Base - B 200	300	350	400	450	500	550	600	650	700
600	0,060	0,092	0,109	0,125	0,141	0,158	0,174	0,191	0,208	0,224
550	0,055	0,084	0,099	0,113	0,128	0,143	0,158	0,174	0,189	0,204
500	0,049	0,076	0,089	0,102	0,116	0,129	0,143	0,156	0,170	0,184
450	0,044	0,067	0,079	0,091	0,103	0,115	0,127	0,139	0,151	0,163
400	0,038	0,059	0,069	0,079	0,090	0,100	0,111	0,121	0,132	0,143
350	0,033	0,050	0,059	0,068	0,077	0,086	0,095	0,104	0,113	0,122
300	0,027	0,042	0,049	0,057	0,064	0,072	0,079	0,087	0,094	0,102
250	0,022	0,034	0,039	0,045	0,051	0,057	0,063	0,069	0,075	0,081
200	0,016	0,025	0,030	0,034	0,038	0,043	0,047	0,052	0,056	0,061
150	0,011	0,017	0,020	0,023	0,026	0,029	0,032	0,035	0,038	0,041
100	0,005	0,008	0,010	0,011	0,013	0,014	0,016	0,017	0,019	0,020

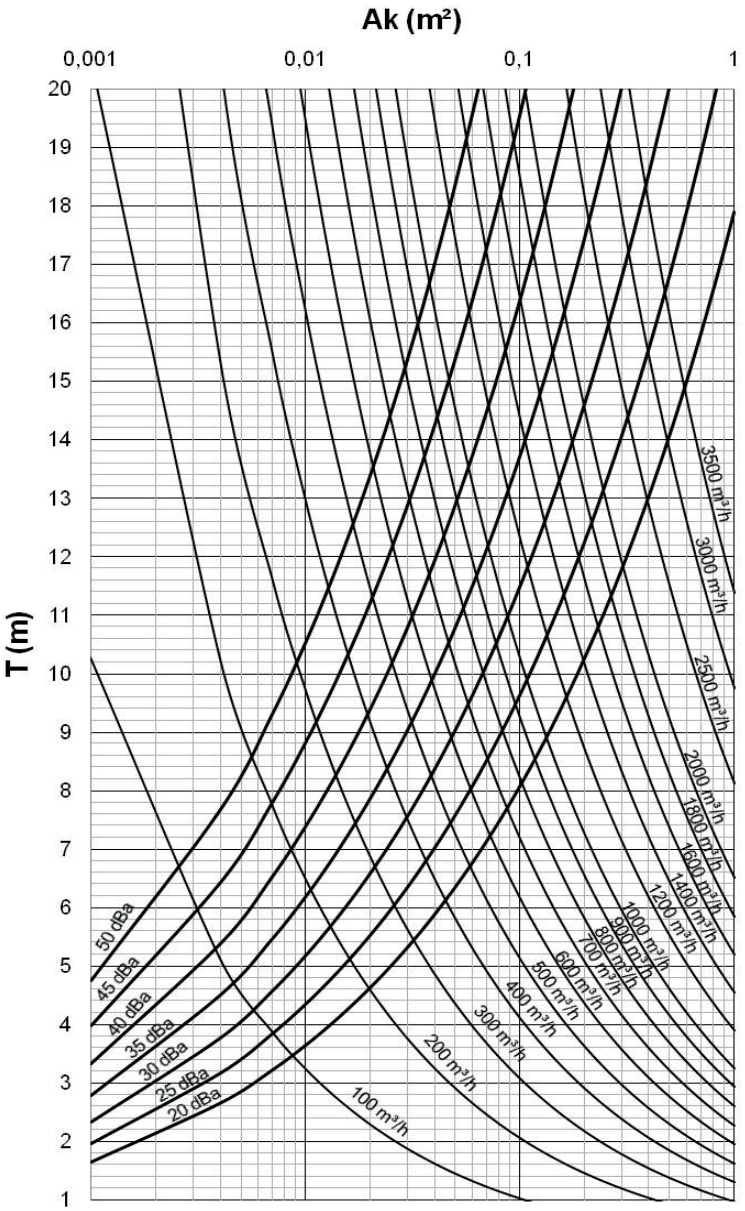
Height - H	Base - B 750	800	850	900	950	1000	1050	1100	1150	1200
600	0,241	0,258	0,275	0,292	0,309	0,326	0,343	0,360	0,378	0,395
550	0,219	0,235	0,250	0,265	0,281	0,296	0,312	0,328	0,343	0,359
500	0,197	0,211	0,225	0,239	0,253	0,267	0,281	0,295	0,309	0,323
450	0,175	0,188	0,200	0,212	0,225	0,237	0,250	0,262	0,275	0,287
400	0,153	0,164	0,175	0,186	0,197	0,207	0,218	0,229	0,240	0,251
350	0,131	0,141	0,150	0,159	0,168	0,178	0,187	0,196	0,206	0,215
300	0,110	0,117	0,125	0,133	0,140	0,148	0,156	0,164	0,171	0,179
250	0,088	0,094	0,100	0,106	0,112	0,118	0,125	0,131	0,137	0,143
200	0,066	0,070	0,075	0,079	0,084	0,089	0,093	0,098	0,103	0,107
150	0,044	0,047	0,050	0,053	0,056	0,059	0,062	0,065	0,068	0,071
100	0,022	0,023	0,025	0,026	0,028	0,029	0,031	0,032	0,034	0,036

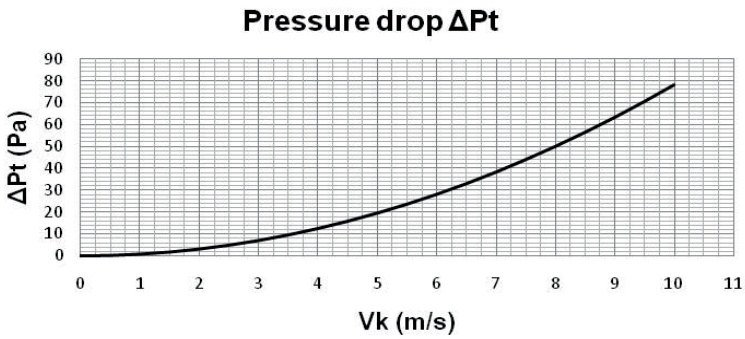
Pedestrian grille UP

Technical data

Vertical throw - air supply

UP0





Ak	Effective area (m²)
Q	Airflow (m³/h)
T	Throw (m) for Vt=0,2 m/s
Vk	Velocity (m/s) in section Ak

Vk = Q/3600/Ak

Aeraulic data measured in isothermal conditions in accordance with international standard:

ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

Acoustic data measured in reverberation room in accordance with international standard:

ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms
ISO 5135 1997: Acoustic - determination of sound power levels of noise from airterminal devices ; air terminal units; dampers and valves by measurement in a reverberation room.

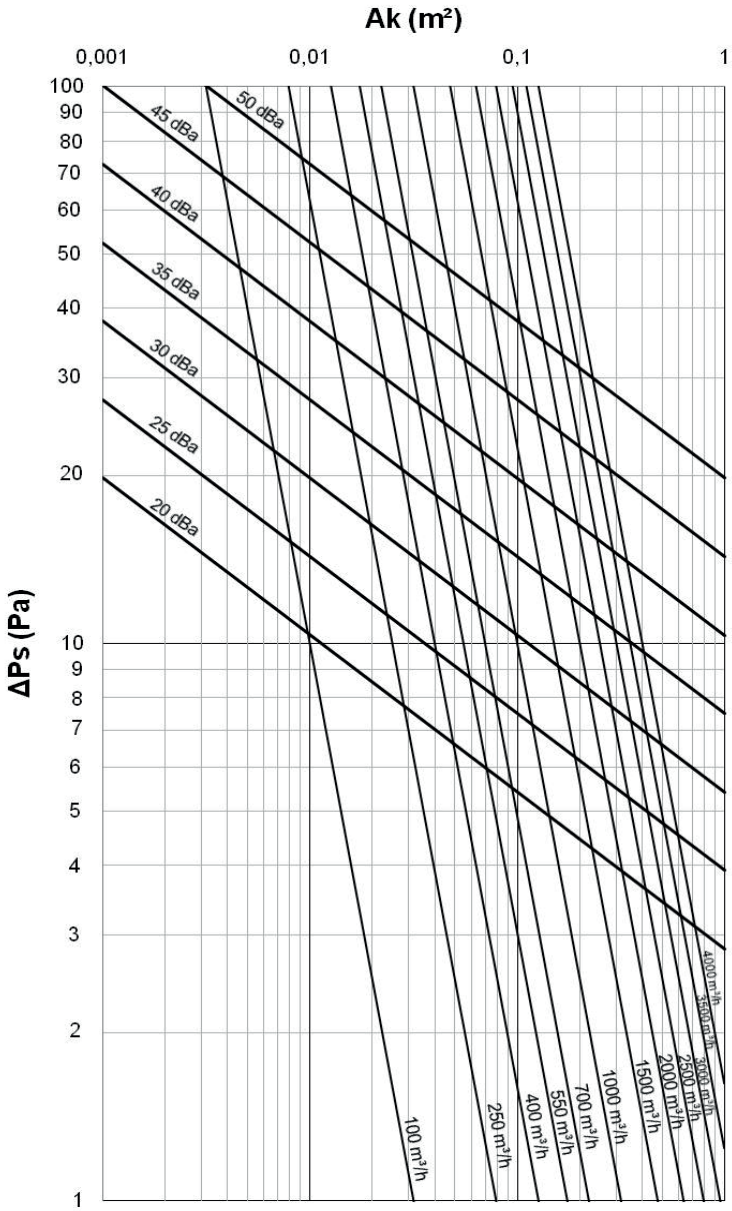
The figures shown do not consider the attenuation due to the installation environment. This attenuation is usually between 6 and 10 dBA and is determined by the size and shape of the environment and the characteristics of the furnishings.

Pedestrian grille UP

Technical data

Vertical throw, extract air

UP0



Ak Effective area (m²)
Q Airflow (m³/h)

Aeraulic data measured in isothermal conditions in accordance with international standard:

ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

Acoustic data measured in reverberation room in accordance with international standard:

ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms
ISO 5135 1997: Acoustic - determination of sound power levels of noise from airterminal devices ; air terminal units; dampers and valves by measurement in a reverberation room.

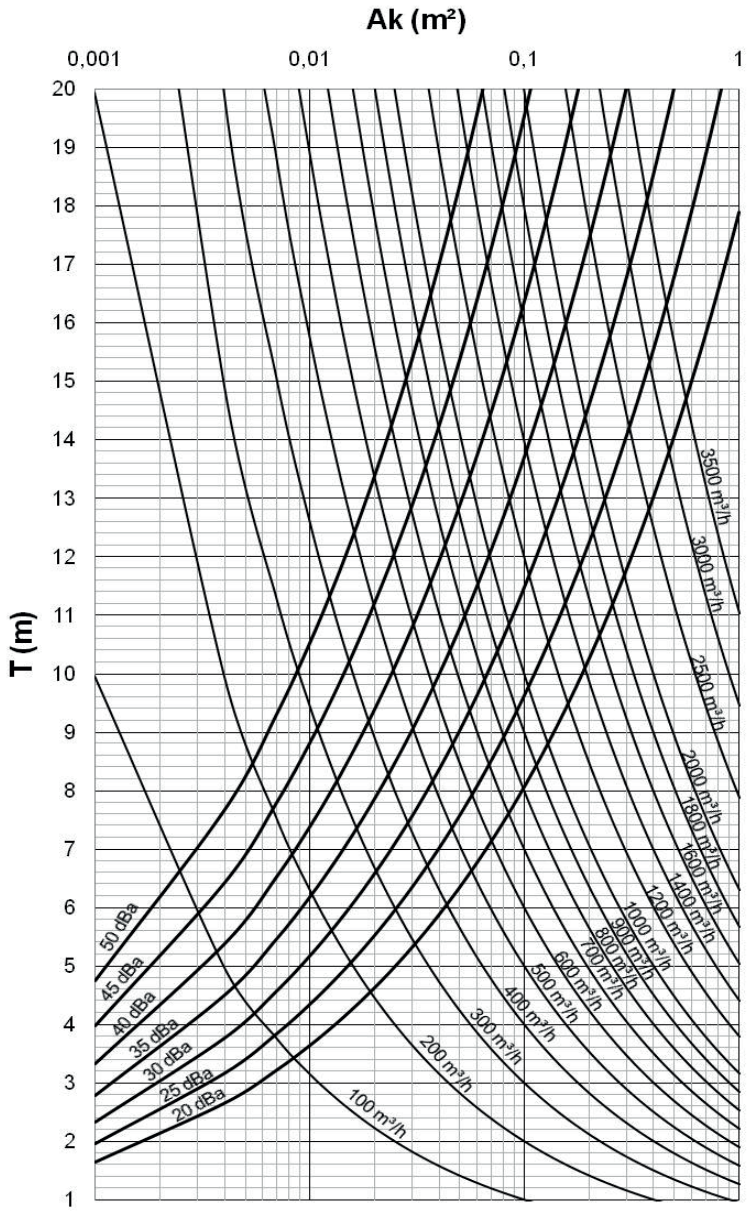
The figures shown do not consider the attenuation due to the installation environment. This attenuation is usually between 6 and 10 dBA and is determined by the size and shape of the environment and the characteristics of the furnishings.

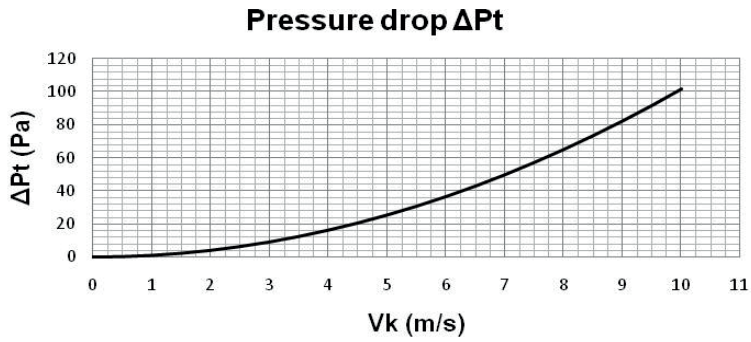
Pedestrian grille UP

Dati tecnici

Inclined throw 15° - supply air

UP1





Ak Effective area (m²)
Q Airflow (m³/h)
T Throw (m) for Vt=0,2 m/s
Vk Velocity (m/s) in section Ak

Vk = Q/3600/Ak

Aeraulic data measured in isothermal conditions in accordance with international standard:

ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

Acoustic data measured in reverberation room in accordance with international standard:

ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms
ISO 5135 1997: Acoustic - determination of sound power levels of noise from airterminal devices ; air terminal units; dampers and valves by measurement in a reverberation room.

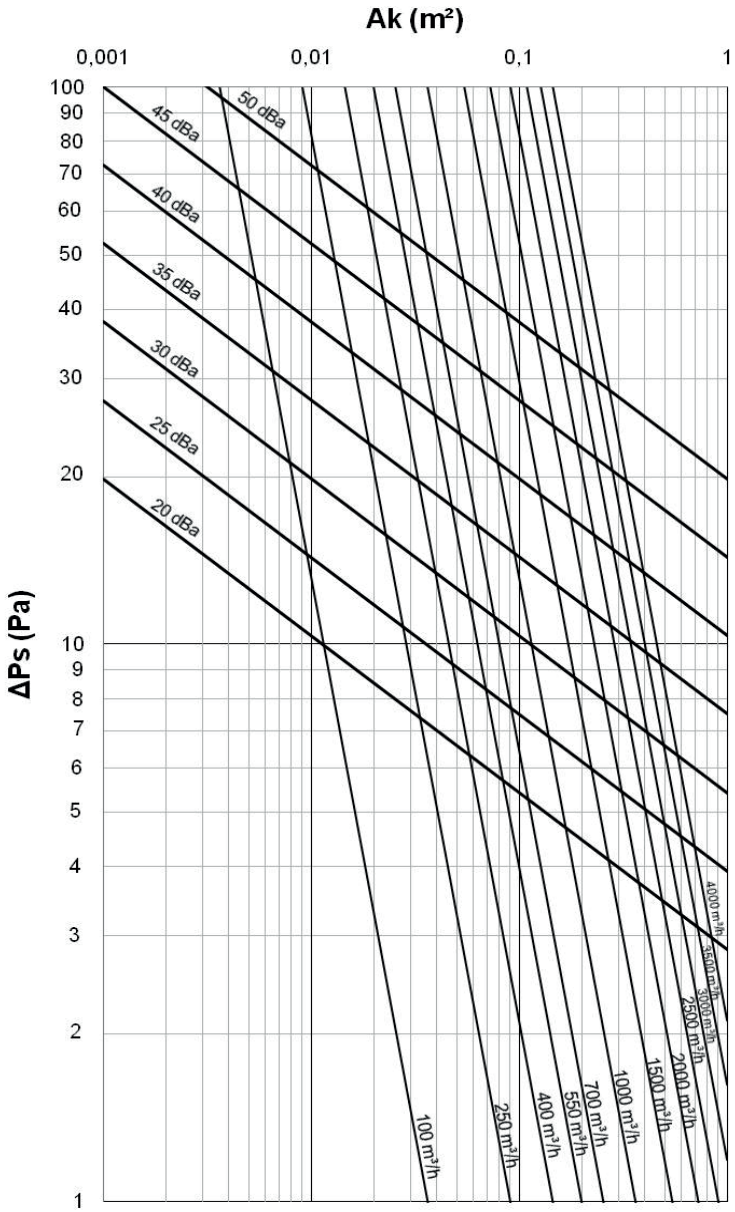
The figures shown do not consider the attenuation due to the installation environment. This attenuation is usually between 6 and 10 dBA and is determined by the size and shape of the environment and the characteristics of the furnishings.

Pedestrian grille UP

Dati tecnici

Inclined throw 15° - extract air

UP1



Ak Effective area (m²)
Q Airflow (m³/h)

Aeraulic data measured in isothermal conditions in accordance with international standard:

ISO 5219 1984: Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.

Acoustic data measured in reverberation room in accordance with international standard:

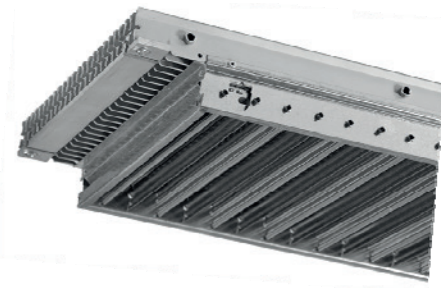
ISO 3741 1999: Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms
ISO 5135 1997: Acoustic - determination of sound power levels of noise from airterminal devices ; air terminal units; dampers and valves by measurement in a reverberation room.

The figures shown do not consider the attenuation due to the installation environment. This attenuation is usually between 6 and 10 dBA and is determined by the size and shape of the environment and the characteristics of the furnishings.

Pedestrian grille UP

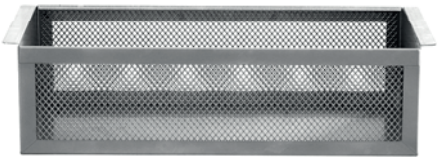
Accessories

SCUP..B



SCUP..T

UPR



Ordering example

	SCUP	B	600	300
Type				
B for grille type UP..B **P** for grille type UP..P **T** for grille type UP..C and UP..T				
Width				
Height				

	UPR	BP	600	300
Type				
BP for grille type UP..B e UP..P **CT** for grille type UP..C e UP..T				
Width				
Height				

Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.

We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people's lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

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