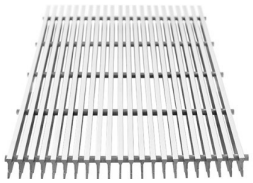


PEDESTRIAN FLOOR GRILLE

OVERVIEW

UP
SERIES

Overview
The UP series consists of a range of pedestrian floor 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.

Mechanical resistance class
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 600x600mm grille, a concentrated load of up to 450 kg in the middle without breaking and up to 150 kg without damage.

Typical uses
The UP pedestrian grilles are the ideal solution for heating or conditioning in environments such as computer rooms, computer labs, call centres and similar locations.
This high strength makes the new UP series grilles the most secure solution for environments where trolleys are used, like dining halls, elderly or disabled care homes, offices, exhibition areas and other public places.

Simple and quick installation
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.

Available models
Simple grille - only blades
adjustable grille - blades with adjustable height
grille with fixed height frame
grille with adjustable height frame.

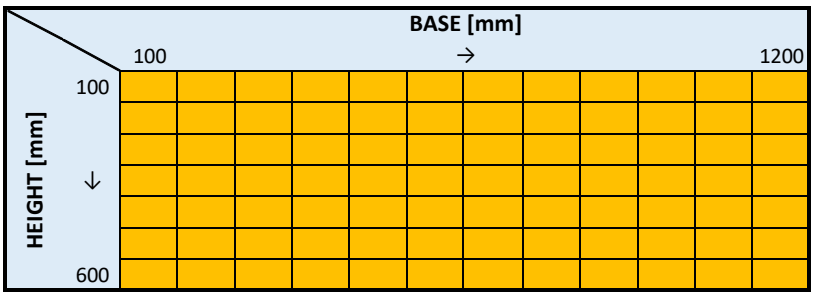
Available sizes
Fix height: from 200x100mm up to 1200x600mm.
adjustable height: from 200x150mm up to 1200x600mm.

Materials
Blades made from anodized aluminium;
frame made from anodized aluminium;
connection elements made from carbon steel;
supports or regulation screws made from carbon steel.

Accessories
Opposed blade damper;
dust collection basket.

Unsuitable environments
The aluminum products are not suitable for installation in environments with an atmosphere containing corrosive substances for this material and in particular containing chlorine, such as swimming pools, spas and some types of food industries.

STANDARD SIZES - 50mm PITCH



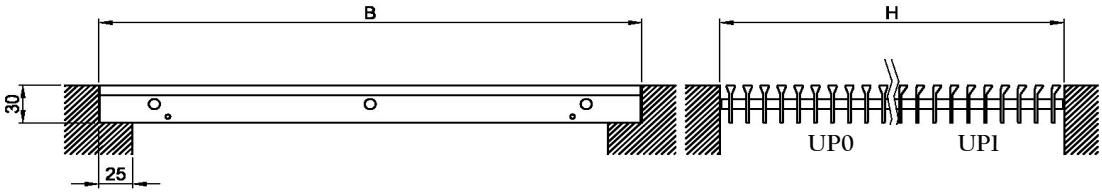
PEDESTRIAN FLOOR GRILLE

DIMENSIONS

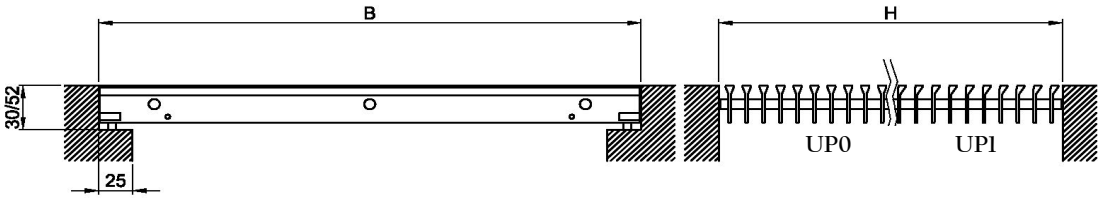
UP
SERIES

The wide range of sizes, versions and accessories allow to satisfy any installation requirement.
The size of the gap must be equal to the nominal size of the grille as the production already foresees this for an easier installation.

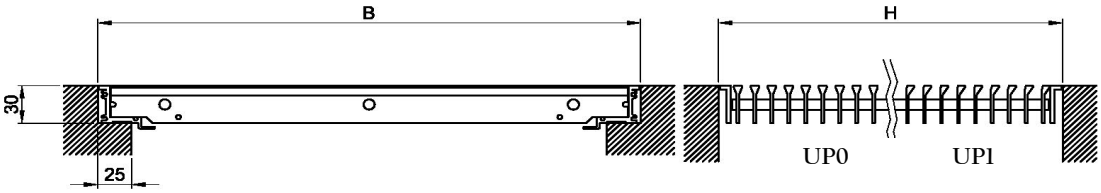
Grille with fix height series UP……. AB



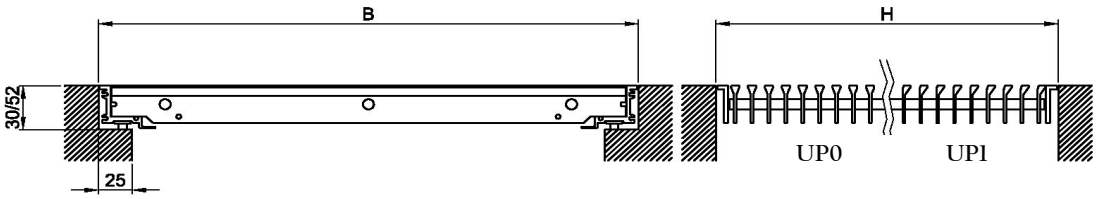
Grille with adjustable height series UP …… AP



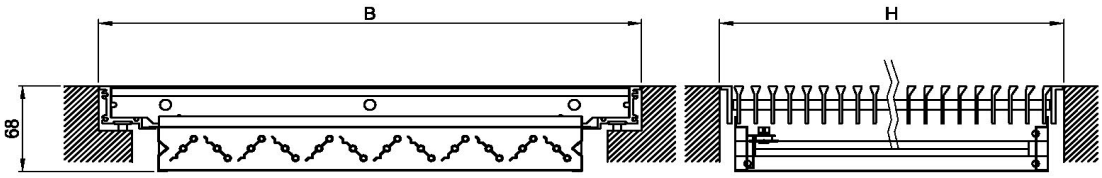
Grille with frame and fix height series UP …… AC



Grille with frame and adjustable height series UP …… AT



Grille complete with frame and damper,



Grilles with height H less than 150mm can not have an adjustable support

PEDESTRIAN FLOOR GRILLE

EFFECTIVE AREA Ak

UP SERIES

Effective area Ak (m²) - versions without frame

HEIGHT (mm)	BASE (mm)									
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
	200	300	350	400	450	500	550	600	650	700

Effective area Ak (m²) - versions without frame

HEIGHT (mm)	BASE (mm)									
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
	750	800	850	900	950	1000	1050	1100	1150	1200

PEDESTRIAN FLOOR GRILLE

UP SERIES

EFFECTIVE AREA Ak

Effective area Ak (m²) - versions with frame

HEIGHT (mm)	BASE (mm)									
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
	200	300	350	400	450	500	550	600	650	700

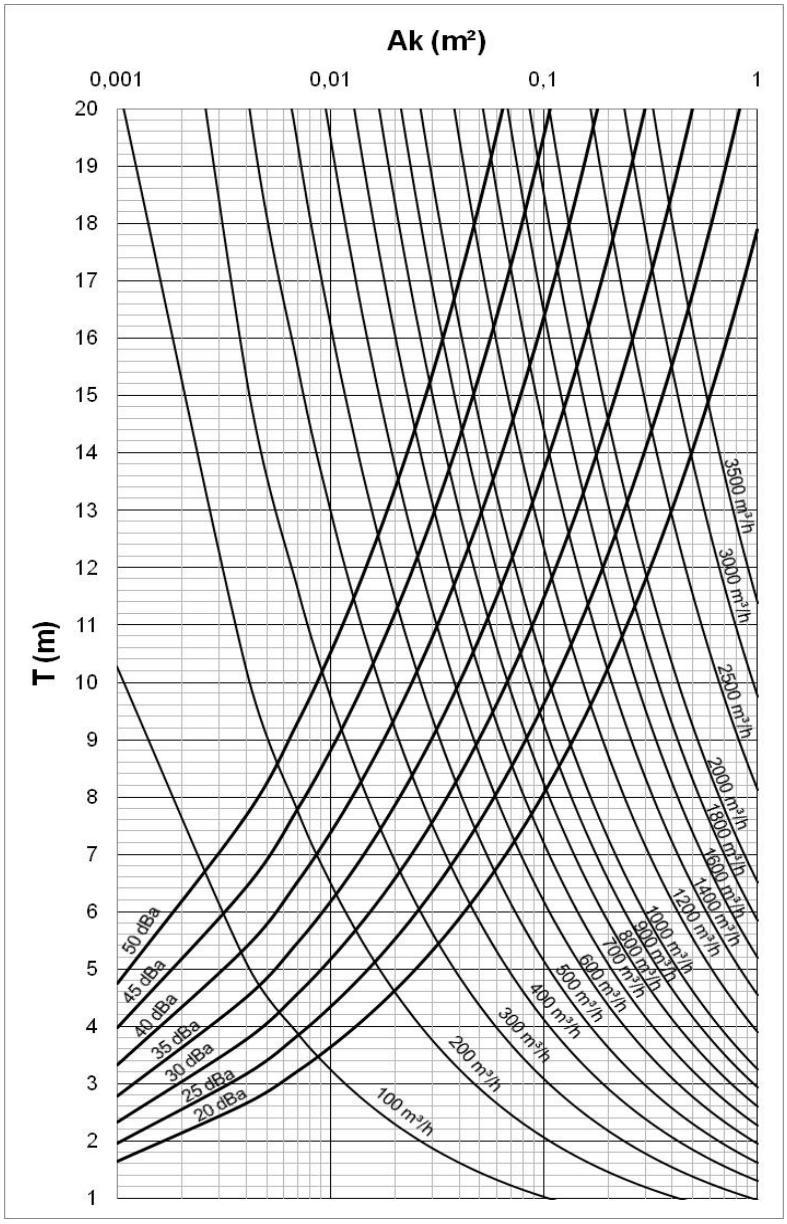
Effective area Ak (m²) - versions with frame

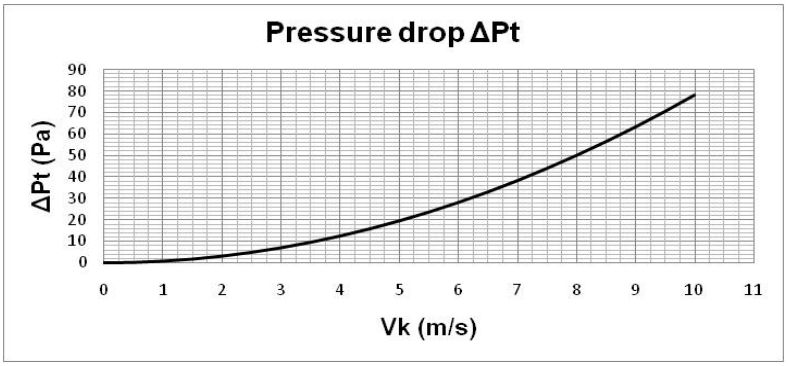
HEIGHT (mm)	BASE (mm)									
600	0,241	0,258	0,275	0,292	0,309	0,326	0,343	0,360	0,378	0,395
550	0,219	0,235	0,250	0,265	0,281	0,296	0,312	0,328	0,343	0,359
500	0,197	0,211	0,225	0,239	0,253	0,267	0,281	0,295	0,309	0,323
450	0,175	0,188	0,200	0,212	0,225	0,237	0,250	0,262	0,275	0,287
400	0,153	0,164	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
	750	800	850	900	950	1000	1050	1100	1150	1200

PEDESTRIAN FLOOR GRILLE

UP0
SERIES

UP0 TECHNICAL DATA
VERSION FOR VERTICAL THROW
USE FOR AIR SUPPLY





Ak Effective area (m²)
Q Air Flow (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*

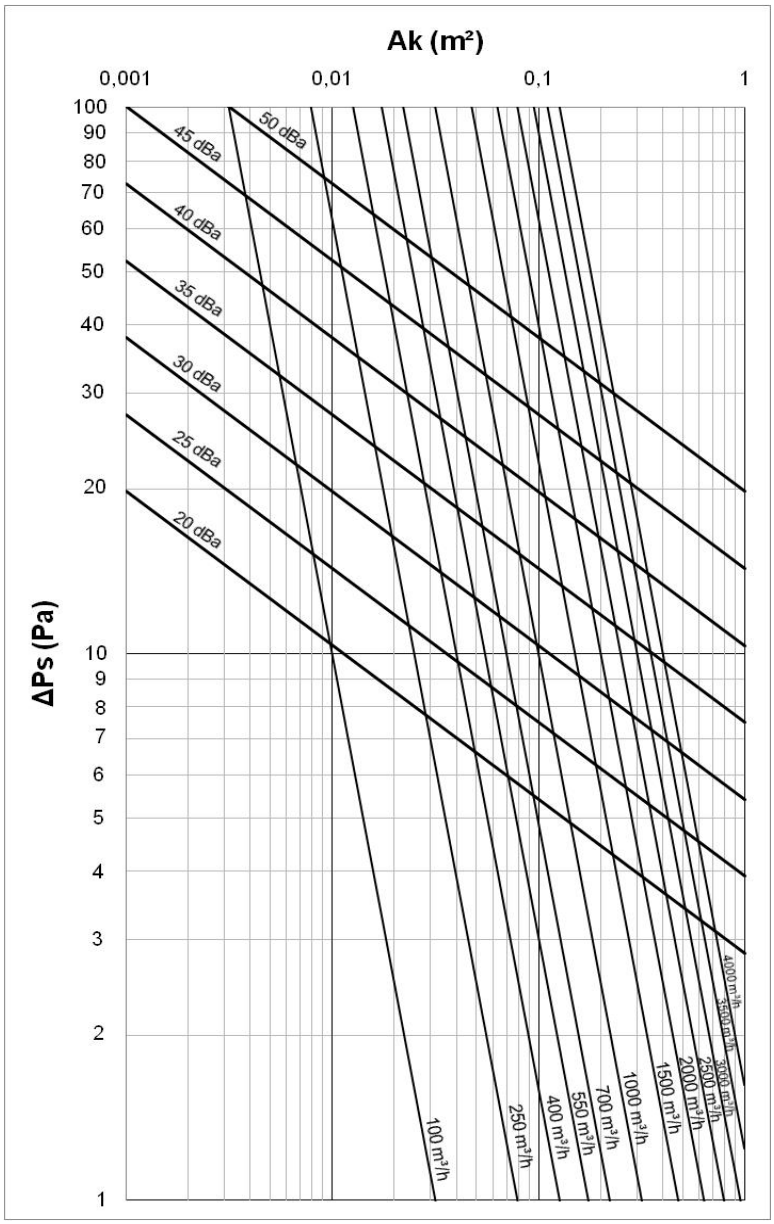
ISO 5135 1997: *Acoustic - determination of sound power levels of noise from air-terminal devices ; air terminal units; dampers and valves by measurement in a reverberation room.*

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 FLOOR GRILLE

UP0
SERIES

UP0 TECHNICAL DATA
VERSION FOR VERTICAL THROW
USE FOR AIR EXTRACTION



Ak Effective area (m²)
Q Air Flow (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*

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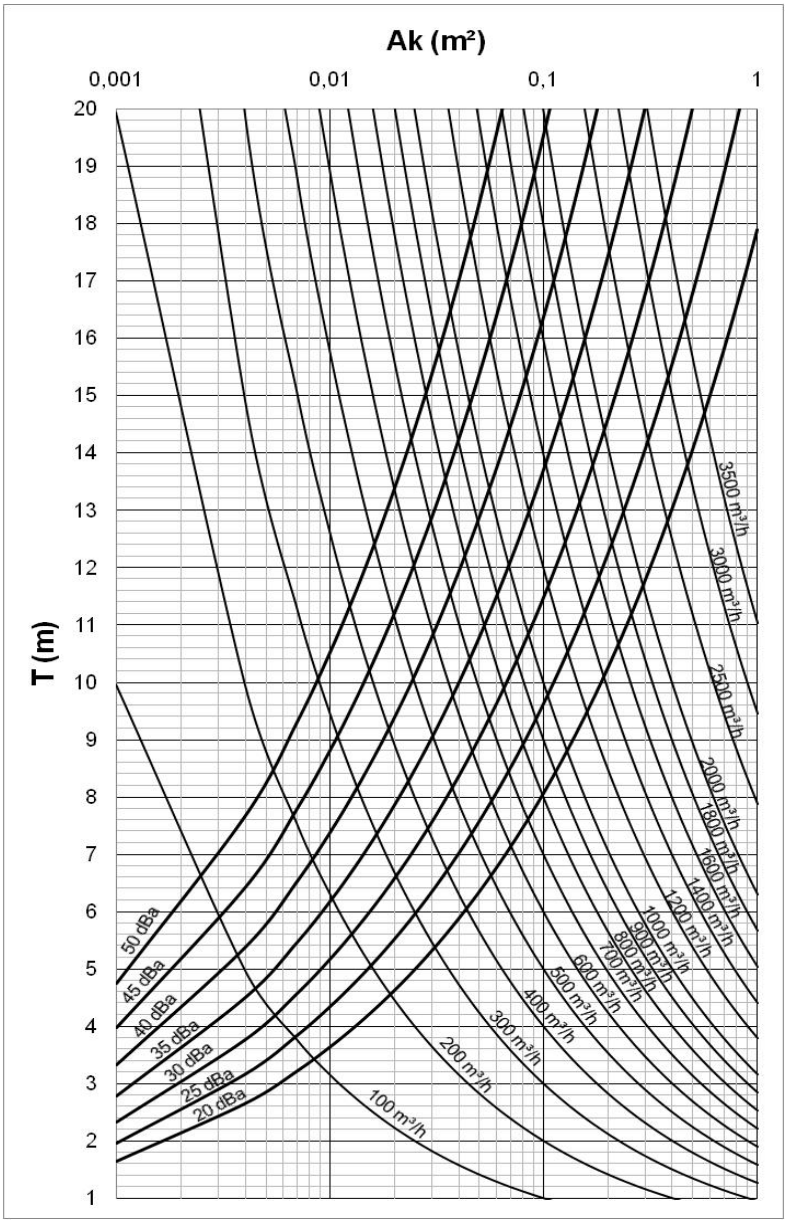
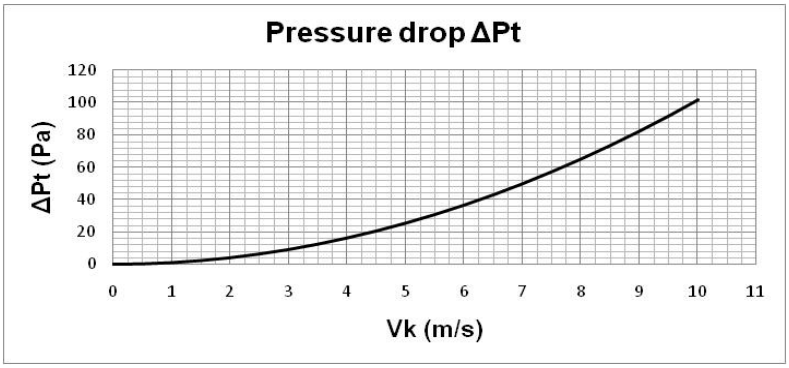
PEDESTRIAN FLOOR GRILLE

UP1
SERIES

UP1 TECHNICAL DATA
VERSION FOR 15° INCLINED THROW
USE FOR AIR SUPPLY





Ak Effective area (m²)
Q Air Flow (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*

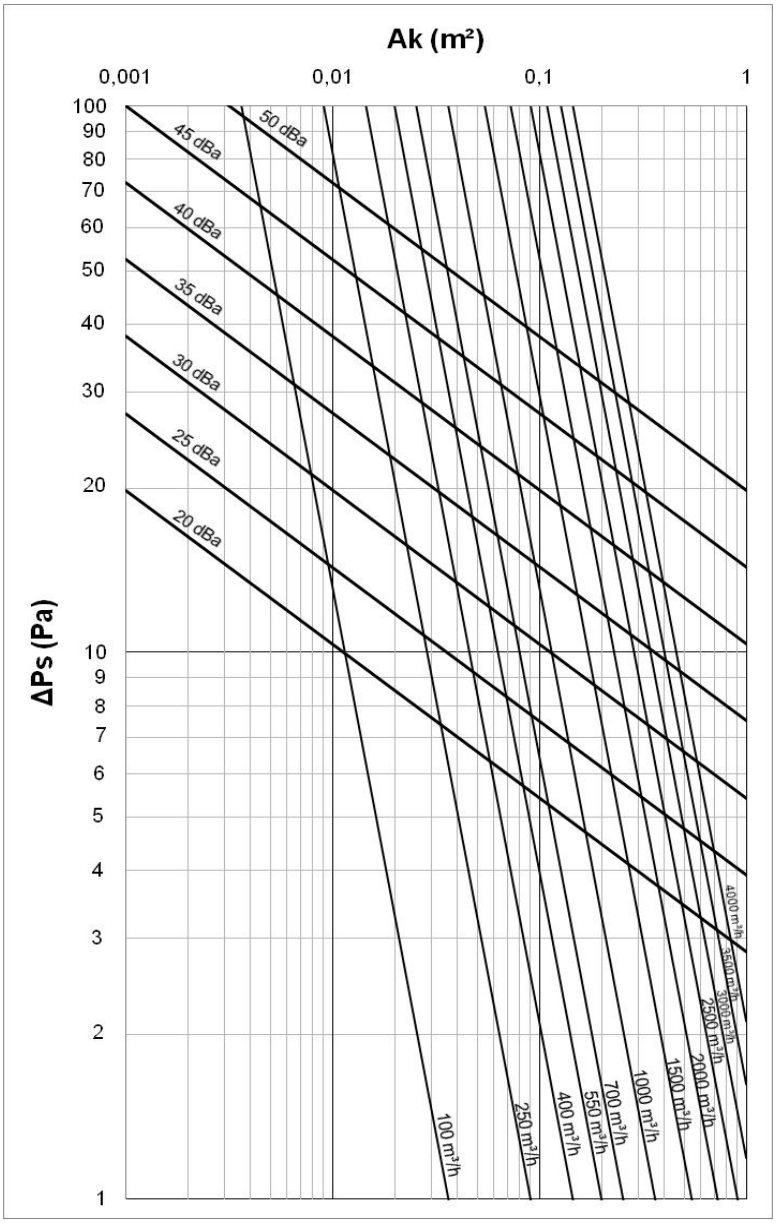
ISO 5135 1997: *Acoustic - determination of sound power levels of noise from air-terminal devices ; air terminal units; dampers and valves by measurement in a reverberation room.*

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 FLOOR GRILLE

UP1
SERIES

UP1 TECHNICAL DATA
VERSION FOR 15° INCLINED THROW
USE FOR AIR EXTRACTION



Ak Effective area (m²)
Q Air Flow (m³/h)

Due to increased pressure drop of the UP1 compared to the UP0 grilles of the same size, the use of the UP1 series grilles is recommended unless there are aesthetic or architectural constraints indicated.

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 air-terminal 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 FLOOR GRILLE

UP
SERIES

HOW TO ORDER

UP Pedestrain floor grille

0 Vertical throw
1 15° inclined throw

Base

Height

A Anodized finish

B Grille with fix height (a)
P Grille with adjustable height (b)
C Grille with frame and fix height (a)
T Grille with frame and adjustable heigh

NN No predisposion for damper
SV With predisposion for damper

(a) h min 100mm
(b) h min 150mm

UP 0 600 300 A B SV

SCUP Damper for pedestrian floor grille

B For grille type UP…B
P For grille type UP…P
T For grille type UP…C or UP..T

Base

Height

SCUP B 600 300

UPR Dust basket for pedestrian floor grille

BP For grille type UP…B or UP..P
CT For grille type UP…C or UP..T

Base

Height

UPR BP 600 300