



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.



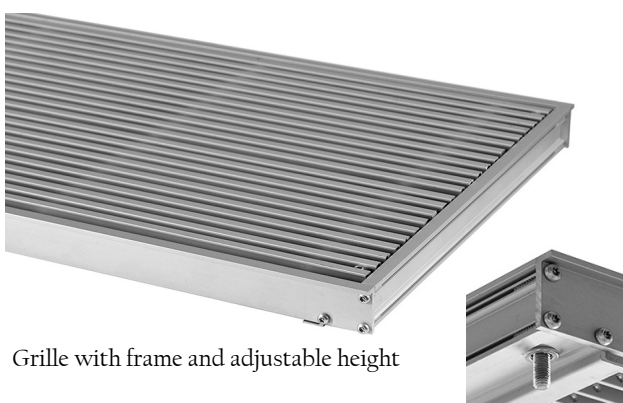
Grille with fix height



Grille with adjustable height



Grille with frame and fix height



Grille with frame and adjustable height



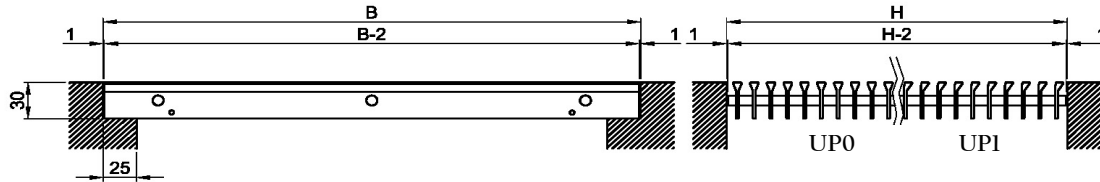
PEDESTRIAN FLOOR GRILLE

DIMENSIONS

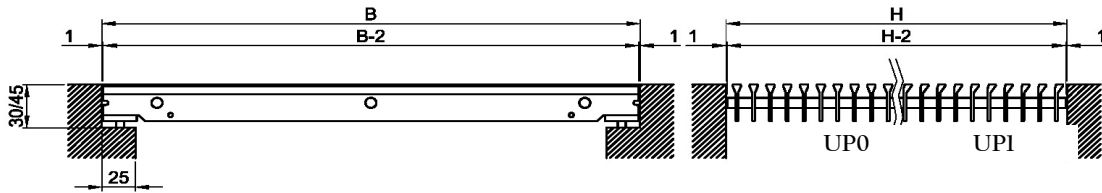
UP SERIES

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.

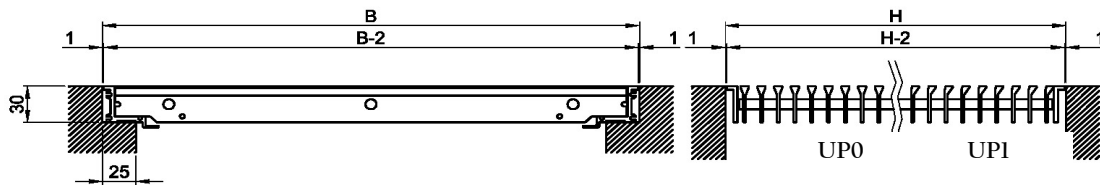
Grille with fix height series UP..... AB



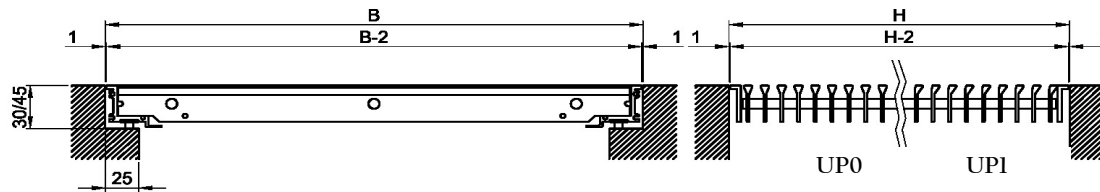
Grille with adjustable height series UP AP



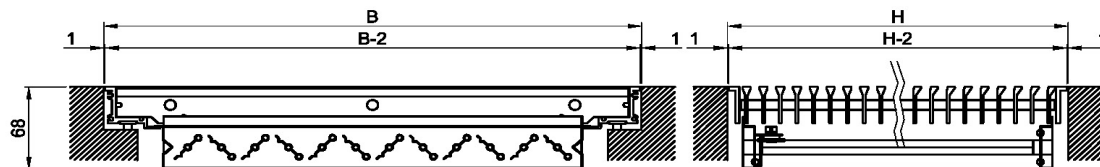
Grille with frame and fix height series UP AC



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

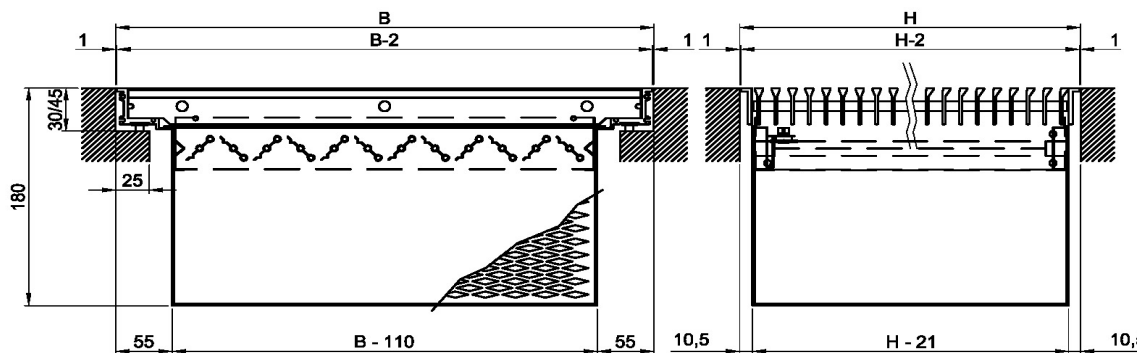


PEDESTRIAN FLOOR GRILLE

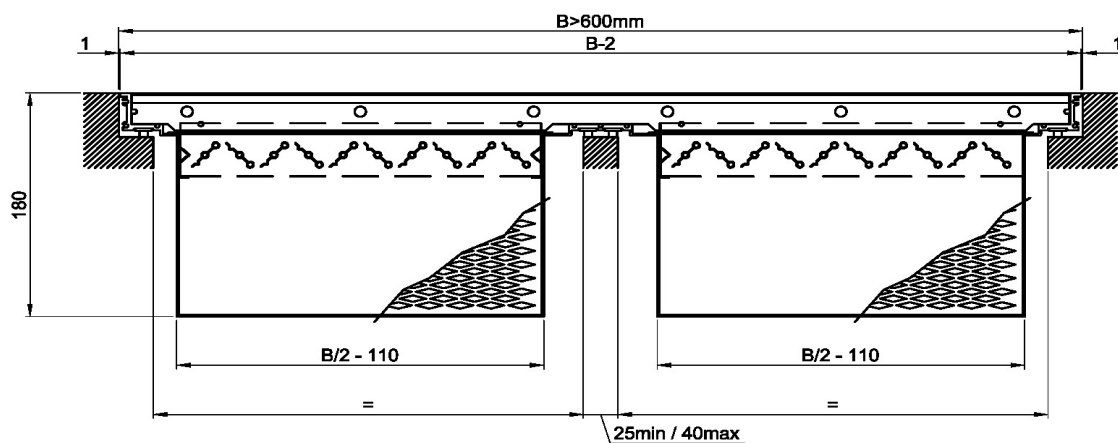
DIMENSIONS

UP SERIES

Grille complete with frame, damper and dust collection box

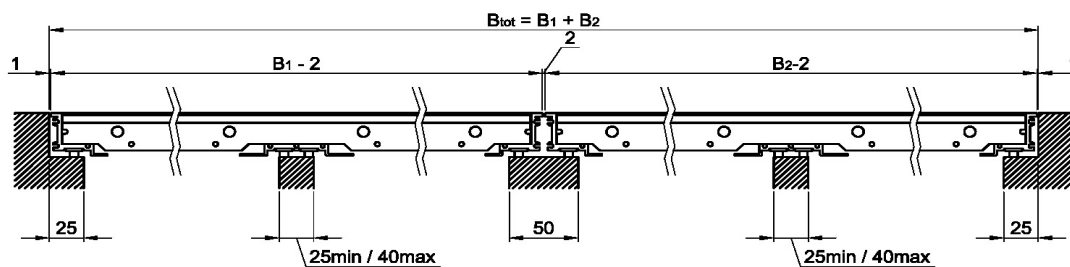


Grilles with base B greater than 600 mm are certified according to UNI EN 13264 standard only if complete with frame and installed with central support with a maximum width of 40mm.



Maximum UP length is 1200mm.

For higher length it is possible to install side by side two or more separated grilles.



B_{tot} = total hole length

B₁ = nominal length of grille 1

B₂ = nominal length of grille 2



PEDESTRIAN FLOOR GRILLE

EFFECTIVE AREA A_k

UP
SERIES

Effective area A_k (m²) - versions without frame

HEIGHT (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

BASE (mm)

Effective area A_k (m²) - versions without frame

HEIGHT (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

BASE (mm)





PEDESTRIAN FLOOR GRILLE

EFFECTIVE AREA A_k

UP
SERIES

Effective area A_k (m²) - versions with frame

HEIGHT (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

BASE (mm)

Effective area A_k (m²) - versions with frame

HEIGHT (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

BASE (mm)

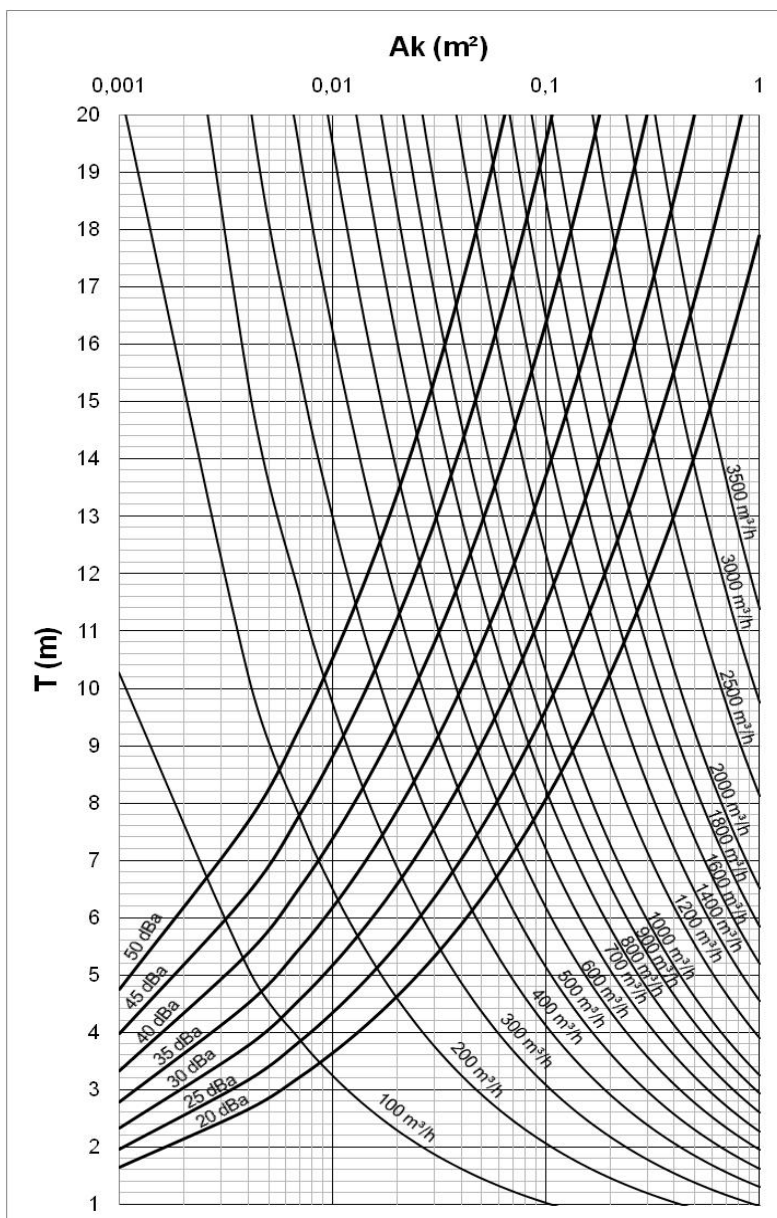




PEDESTRIAN FLOOR GRILLE

UP0 TECHNICAL DATA
VERSION FOR VERTICAL THROW
USE FOR AIR SUPPLY

UPO
SERIES



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

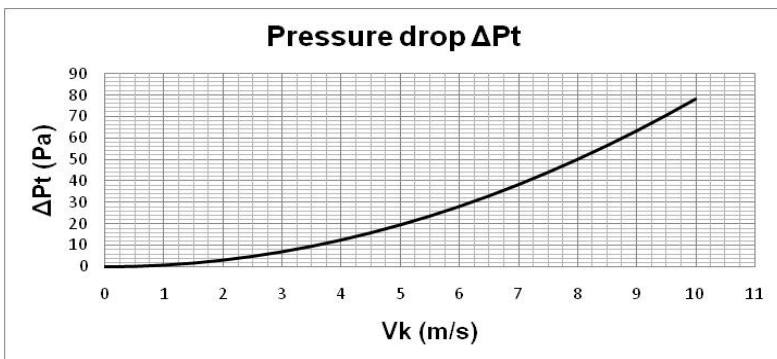
$$V_k = Q/3600/Ak$$

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.

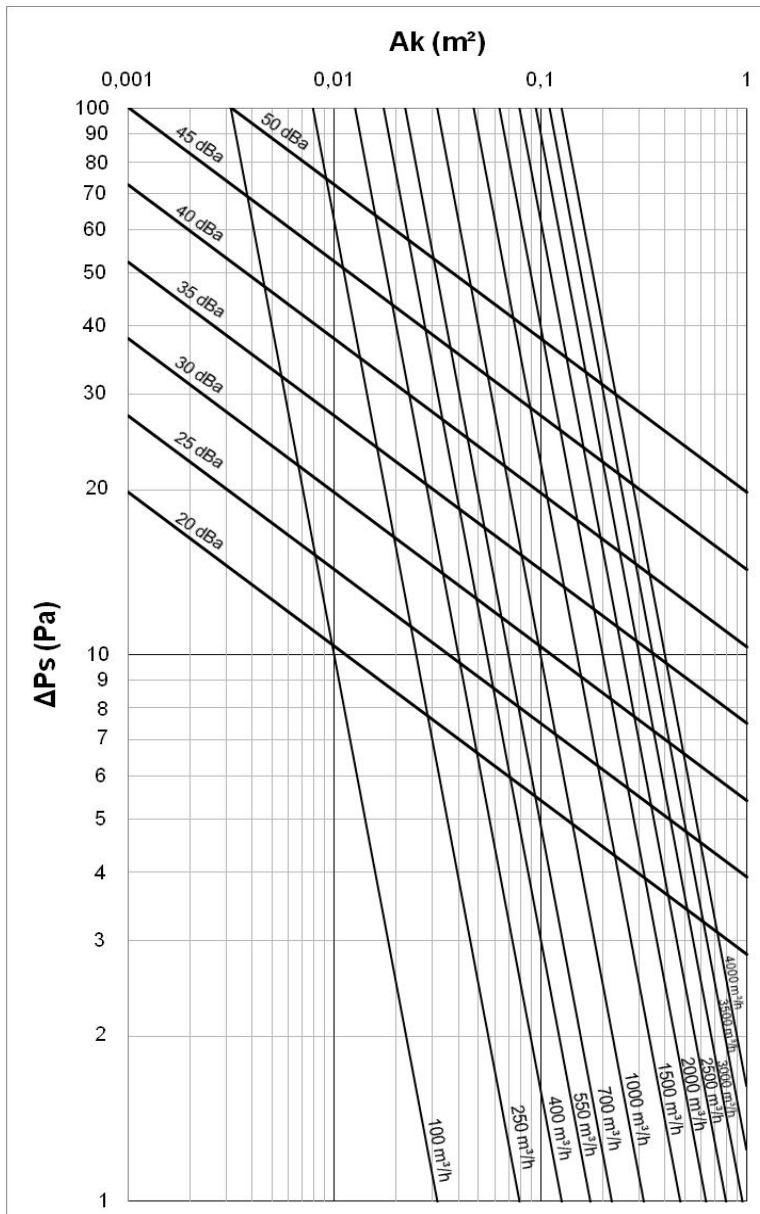




PEDESTRIAN FLOOR GRILLE

UP0 TECHNICAL DATA
VERSION FOR VERTICAL THROW
USE FOR AIR EXTRACTION

UPO
SERIES



A_k Effective area (m^2)
 Q Air Flow (m^3/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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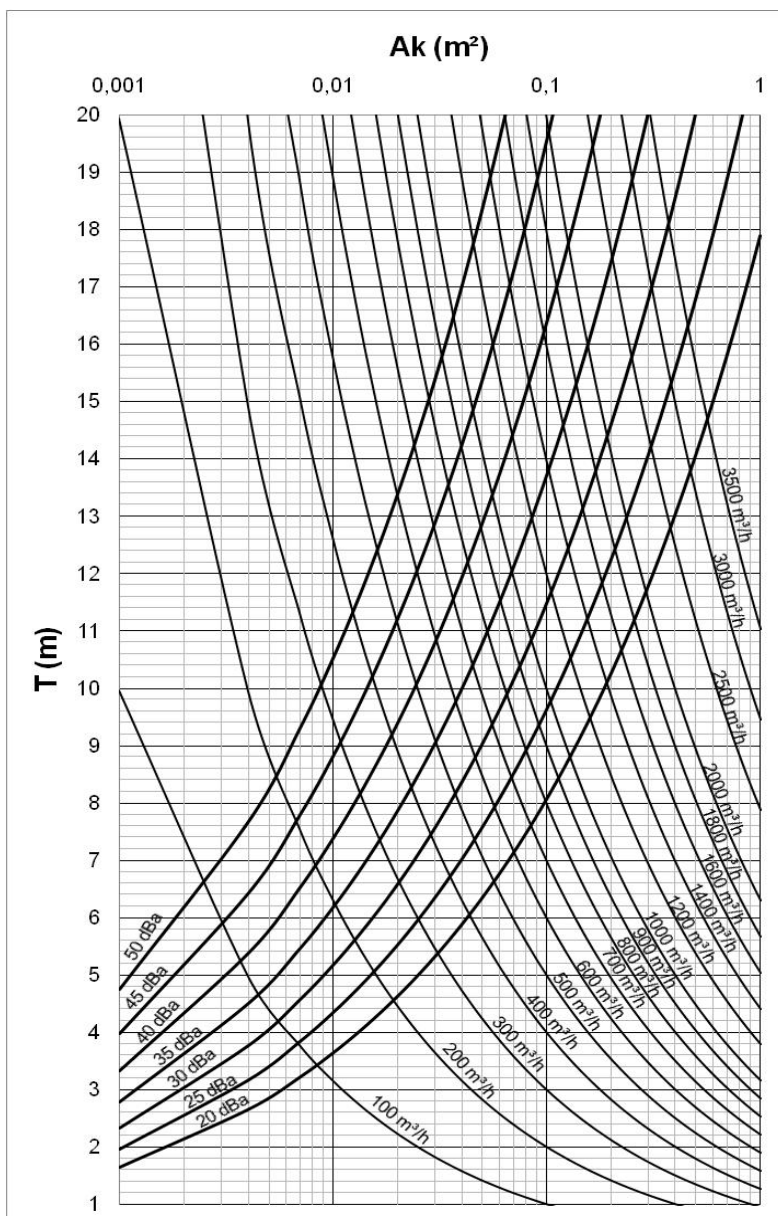
The figures shown do not consider the attenuation due to the installation environment. This attenuation is usually between 6 and 10 dBA and is determined by the size and shape of the environment and the characteristics of the furnishings.



PEDESTRIAN FLOOR GRILLE

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

UPI SERIES



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

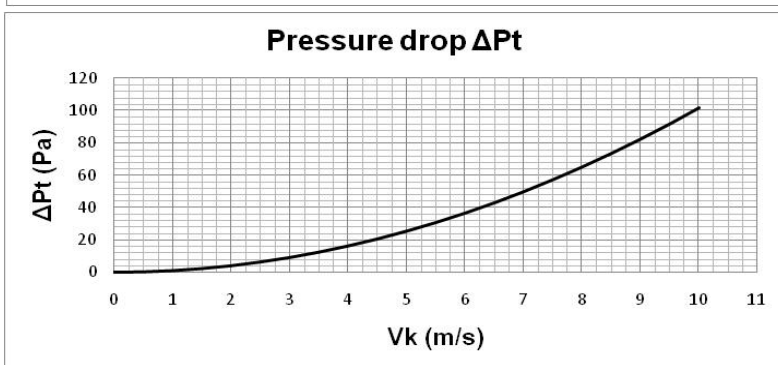
$$V_k = Q/3600/A_k$$

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.

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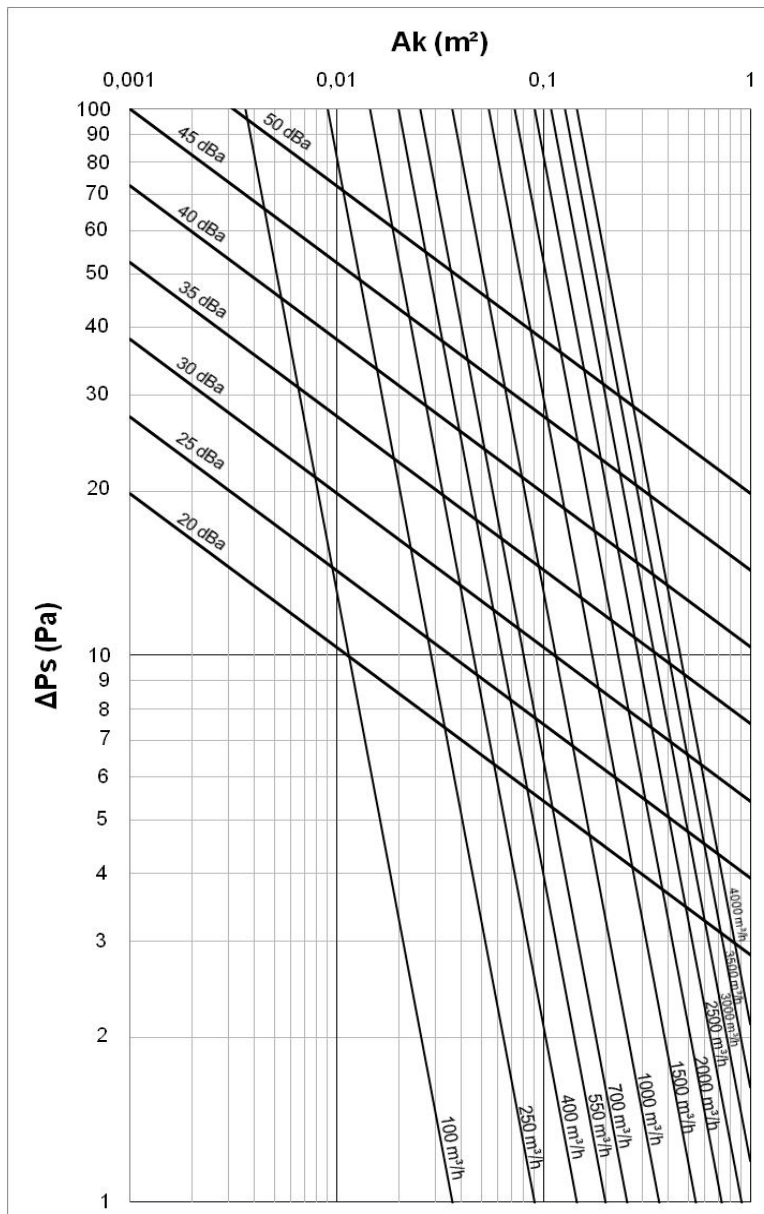




PEDESTRIAN FLOOR GRILLE

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

UPI SERIES



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

Due to increased pressure drop of the UPI compared to the UP0 grilles of the same size, the use of the UPI 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.*

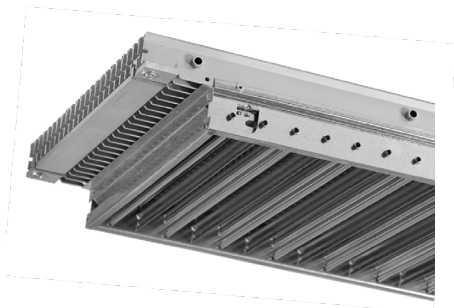
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PEDESTRIAN FLOOR GRILLE

ACCESSORIES

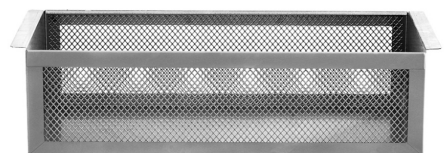
UP SERIES



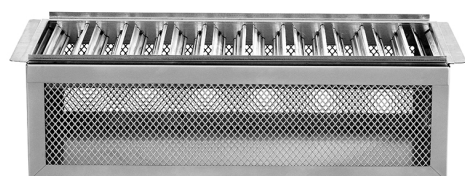
SCUP.....B Regulation damper for grille with fixed or adjustable height blades only



SCUP.....T Regulation damper for grille with fixed or adjustable height frame **without dust collection basket**



UPR Dust collection basket to be used only with grilles complete with fixed or adjustable height frames



SCUP.....C Regulation damper for grille with fixed or adjustable height frames **with dust collection basket**



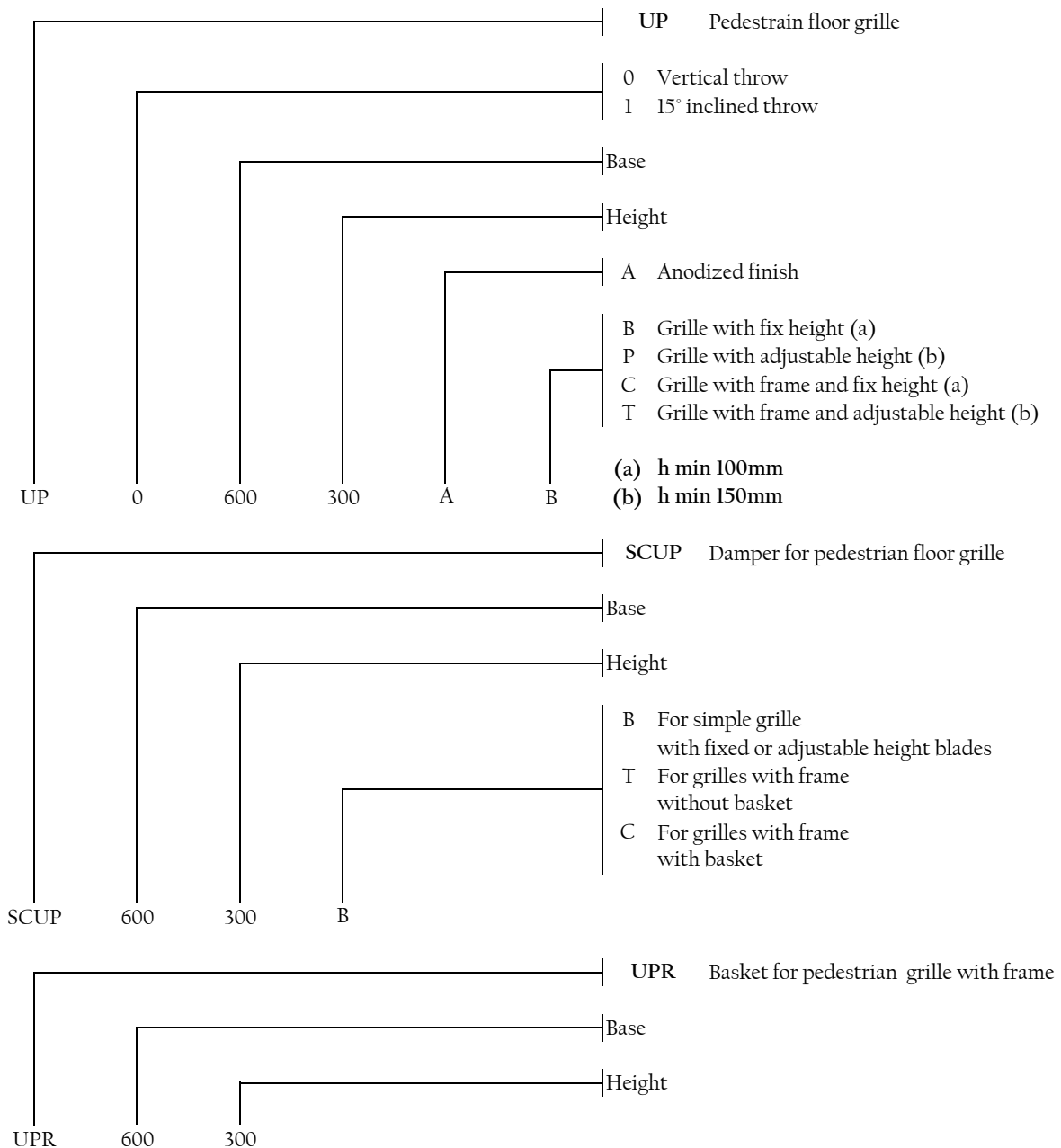
UPFT Support for adjustable height grilles may replace threaded support when a better weight distribution is necessary.
By using this accessory, the minimum thickness of the pedestrian grill is increased to 35mm



PEDESTRIAN FLOOR GRILLE

ORDERING CODES

UP SERIES



The dust collection basket may only be installed on grilles complete with fixed or adjustable height frames.

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-0525525B. It is nevertheless recommended to communicate the characteristics of the raised floor in order to identify the most suitable solution.