



SUPPLY DIFFUSERS WITH CURVED FINS

OVERVIEW

KG SERIES

KG: supply diffusers with curved fins 20 mm pitch in anodised extruded aluminium.

CHARACTERISTICS:

Frame: made from extruded aluminium, 25 mm wide, with rounded edges, constructed in four parts connected invisibly by mechanical assembly.

Fins: made of extruded aluminium with 20 mm, single or double way, vertical or horizontal, pivoted into a plastic guide support incorporated into the frame.

Transverse reinforcement: provided on all sizes with base dimension greater than 800mm.

Damper, optional: all-steel, with multiple fins with opposing movement. Mounting frame, optional: sheet steel construction.

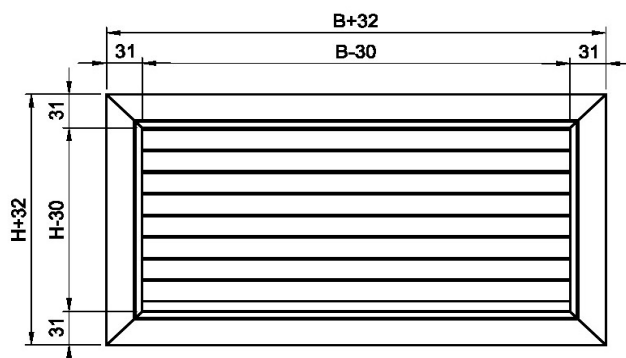
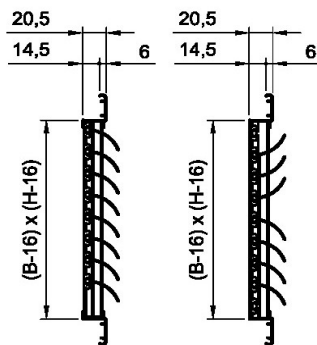
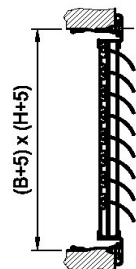
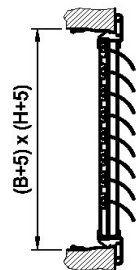
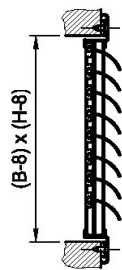
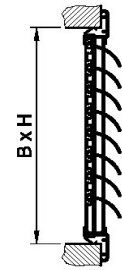
Grille installation: with screwless system with clips;
with traditional screw system directly in the duct or on the wall;
with hidden screw system "U-FIX" and mounting frame.
For ceiling installations, the use of clips is not recommended.

Finish: available in natural anodised aluminium or powder-coated RAL 9010 or RAL 9003.

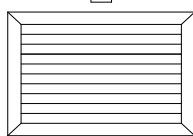
Other types of painting available on request.

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.

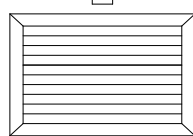


KG 1 L



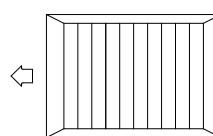
min 200x100

KG 2 L



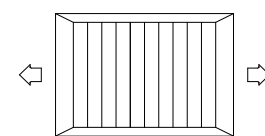
min 200x100

KG 1 C



min 200x150

KG 2 C



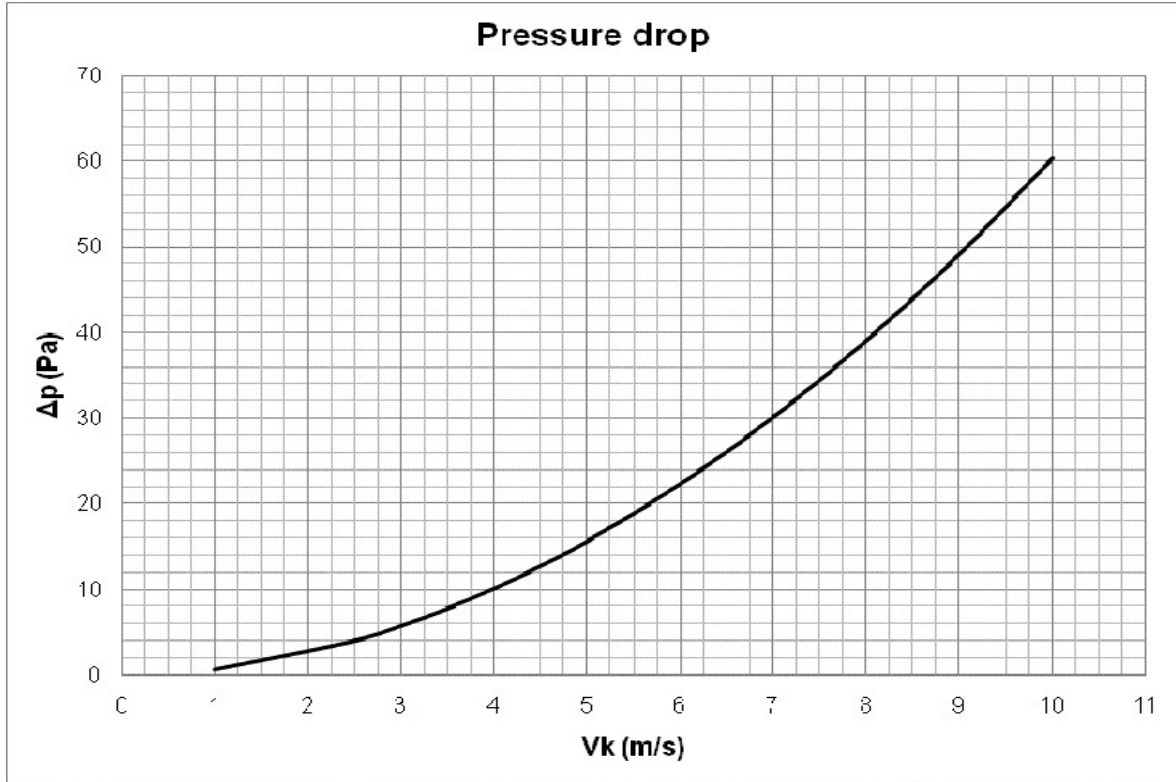
min 200x150



**SUPPLY DIFFUSERS
WITH CURVED FINNS**

**KG
SERIES**

PERFORMANCE



$$V_k \text{ (m/s)} = Q \text{ (m}^3\text{/h)} / 3600 / A_k \text{ (m}^2\text{)}$$

EFFECTIVE AREA A_k [m²]

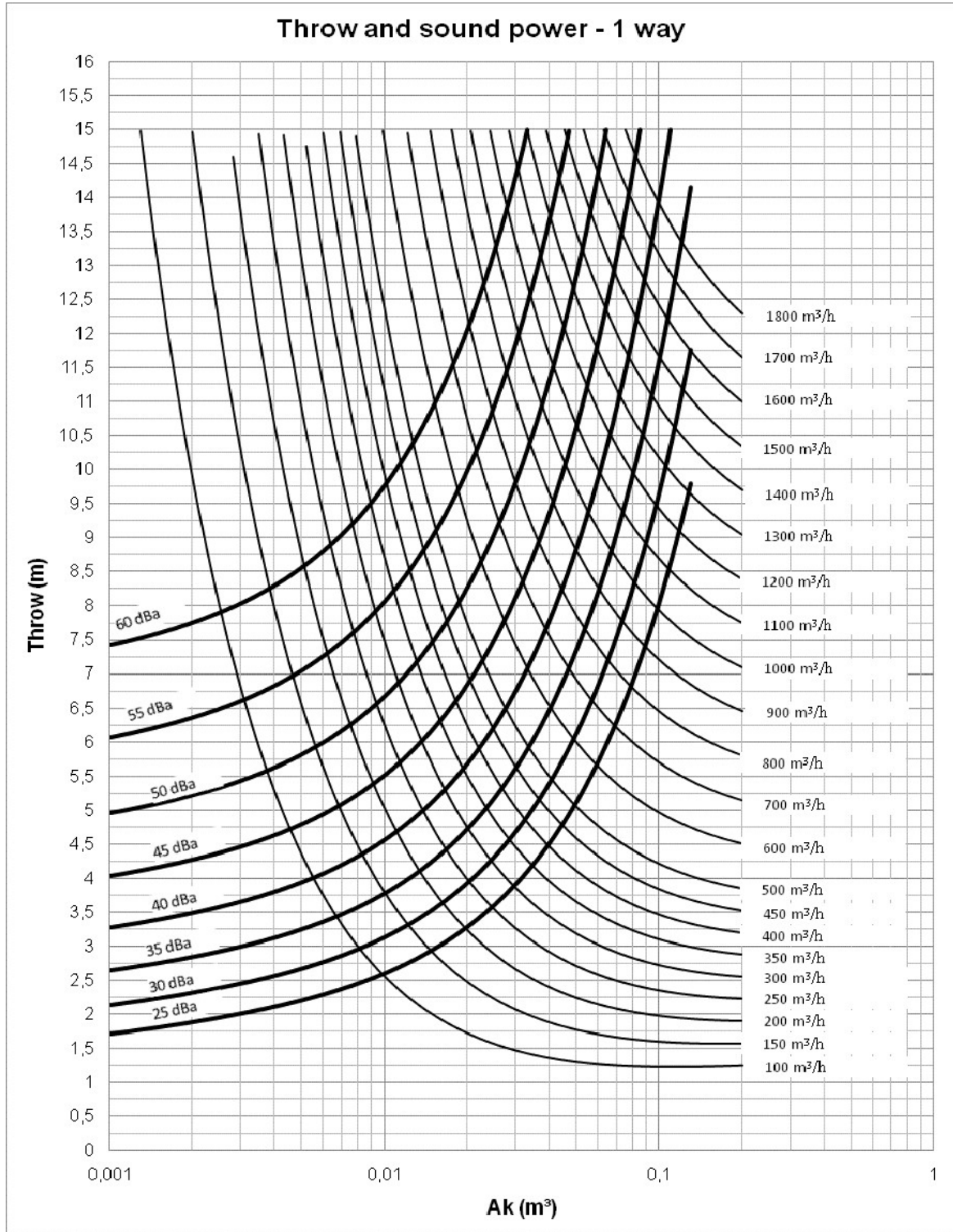
HEIGHT [mm]	BASE [mm]													
	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
100	0,006	0,010	0,013	0,016	0,020	0,023	0,027	0,030	0,033	0,037	0,040	0,044	0,047	0,051
200	0,014	0,021	0,028	0,036	0,043	0,051	0,058	0,066	0,073	0,080	0,088	0,095	0,103	0,110
300	0,021	0,033	0,044	0,055	0,067	0,078	0,090	0,101	0,112	0,124	0,135	0,147	0,158	0,170
400	0,029	0,044	0,059	0,075	0,090	0,106	0,121	0,137	0,152	0,167	0,183	0,198	0,214	0,229
500	0,036	0,056	0,075	0,094	0,114	0,133	0,153	0,172	0,191	0,211	0,230	0,250	0,269	0,289
600	0,044	0,067	0,090	0,114	0,137	0,161	0,184	0,208	0,231	0,254	0,278	0,301	0,325	0,348
700	0,051	0,079	0,106	0,133	0,161	0,188	0,216	0,243	0,270	0,298	0,325			
800	0,059	0,090	0,121	0,153	0,184	0,216	0,247	0,279	0,310	0,341	0,373			
900	0,066	0,102	0,137	0,172	0,208	0,243	0,279	0,314	0,349	0,385	0,420			
1000	0,074	0,113	0,152	0,192	0,231	0,271	0,310	0,350	0,389	0,428	0,468			
1100	0,081	0,125	0,168	0,211	0,255	0,298	0,342	0,385	0,428	0,472	0,515			
1200	0,089	0,136	0,183	0,231	0,278	0,326	0,373	0,421	0,468	0,515	0,563			



SUPPLY DIFFUSERS WITH CURVED FINS

KG SERIES

PERFORMANCE

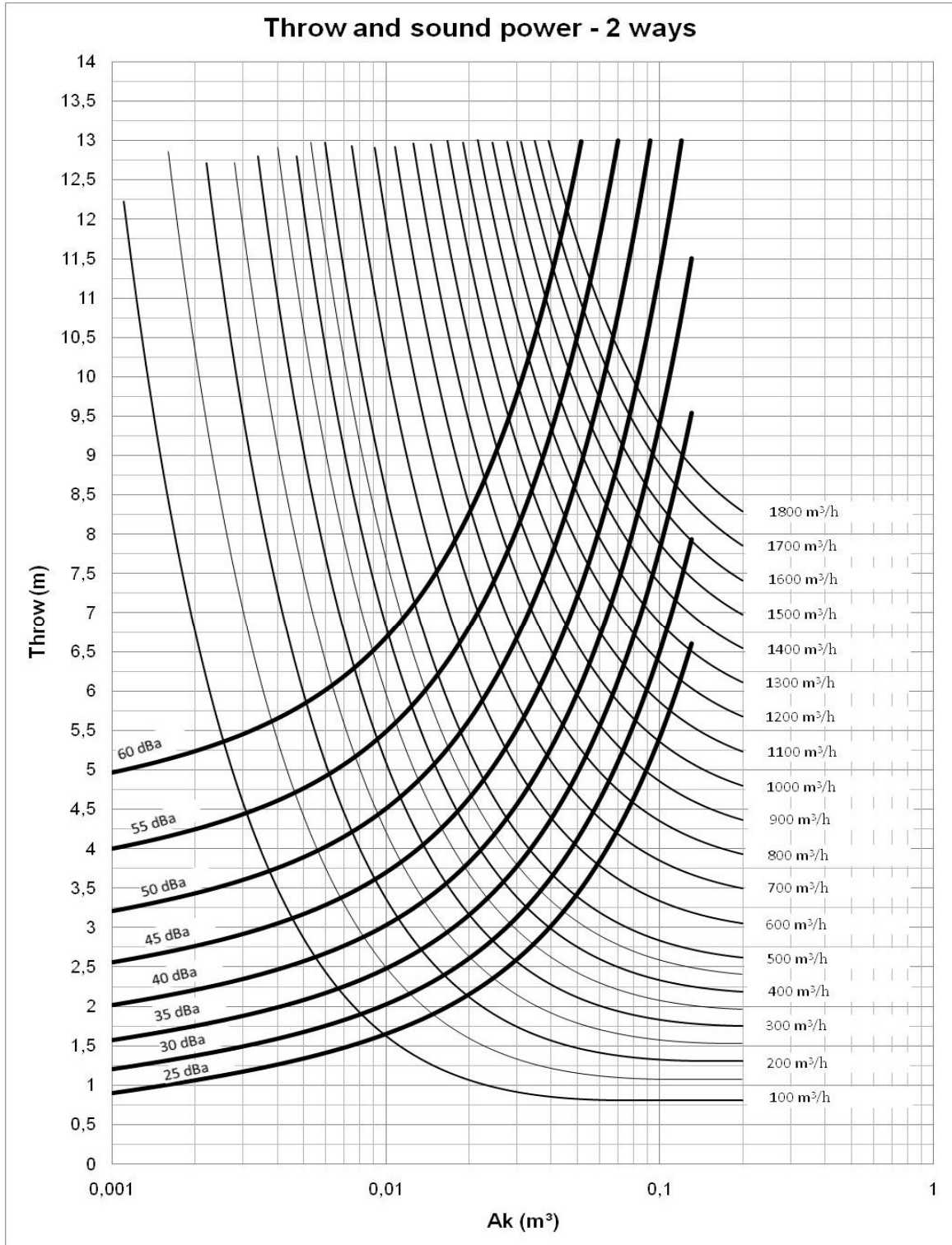




**SUPPLY DIFFUSERS
WITH CURVED FINS**

PERFORMANCE

**KG
SERIES**





**SUPPLY DIFFUSERS
WITH CURVED FINES**

**KG
SERIES**

WEIGHTS

WEIGHT [kg] KG1C

HEIGHT [mm]	BASE [mm]													
	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
100	0,28	0,37	0,45	0,56	0,66	0,73	0,84	0,93	1,02	1,12	1,21	1,31	1,40	1,48
200	0,41	0,57	0,71	0,88	1,03	1,17	1,35	1,48	1,65	1,81	1,95	2,11	2,27	2,41
300	0,57	0,77	0,97	1,19	1,41	1,62	1,84	2,05	2,27	2,50	2,69	2,92	3,14	3,35
400	0,71	0,97	1,22	1,51	1,79	2,05	2,35	2,61	2,90	3,17	3,44	3,72	4,01	4,27
500	0,88	1,19	1,51	1,83	2,17	2,49	2,85	3,18	3,51	3,86	4,19	4,53	4,87	5,20
600	1,03	1,41	1,79	2,17	2,55	2,94	3,35	3,73	4,14	4,55	4,93	5,33	5,74	6,13
700	1,17	1,62	2,05	2,49	2,94	3,38	3,85	4,32	4,76	5,23	5,67			
800	1,35	1,84	2,35	2,85	3,35	3,85	4,35	4,88	5,39	5,91	6,43			
900	1,50	2,07	2,63	3,20	3,75	4,32	4,88	5,56	6,14	6,75	7,36			
1000	1,65	2,27	2,90	3,51	4,14	4,76	5,39	6,14	6,77	7,44	8,09			
1100	1,81	2,50	3,17	3,86	4,55	5,23	5,91	6,75	7,44	8,12	8,84			
1200	1,95	2,69	3,44	4,19	4,93	5,67	6,43	7,36	8,09	8,84	9,60			

WEIGHT [kg] KG1L

HEIGHT [mm]	BASE [mm]													
	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
100	0,27	0,34	0,42	0,49	0,57	0,64	0,72	0,81	0,87	0,95	1,03	1,10	1,17	1,25
200	0,41	0,54	0,68	0,82	0,95	1,08	1,23	1,38	1,52	1,66	1,79	1,92	2,06	2,20
300	0,54	0,77	0,97	1,16	1,35	1,55	1,75	1,97	2,17	2,37	2,56	2,76	2,96	3,15
400	0,68	0,97	1,22	1,48	1,74	1,99	2,26	2,59	2,84	3,09	3,35	3,61	3,87	4,12
500	0,82	1,16	1,48	1,83	2,14	2,46	2,79	3,18	3,49	3,81	4,13	4,45	4,76	5,08
600	0,95	1,35	1,74	2,14	2,55	2,93	3,32	3,76	4,14	4,52	4,91	5,28	5,66	6,04
700	1,08	1,55	1,99	2,46	2,93	3,38	3,82	4,37	4,82	5,26	5,69			
800	1,23	1,75	2,26	2,79	3,32	3,82	4,35	4,97	5,47	5,96	6,48			
900	1,38	1,99	2,59	3,18	3,76	4,37	4,97	5,56	6,11	6,68	7,25			
1000	1,52	2,19	2,84	3,49	4,14	4,82	5,47	6,11	6,77	7,39	8,02			
1100	1,66	2,39	3,09	3,81	4,52	5,26	5,96	6,68	7,39	8,12	8,81			
1200	1,79	2,58	3,35	4,13	4,91	5,69	6,48	7,25	8,02	8,81	9,60			



**SUPPLY DIFFUSERS
WITH CURVED FINES**

**KG
SERIES**

WEIGHTS

WEIGHT [kg] KG2C

HEIGHT [mm]	BASE [mm]													
	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
100	0,29	0,38	0,46	0,57	0,67	0,74	0,85	0,94	1,03	1,13	1,22	1,32	1,41	1,49
200	0,43	0,59	0,73	0,90	1,05	1,19	1,37	1,50	1,67	1,83	1,97	2,13	2,29	2,43
300	0,59	0,81	1,01	1,23	1,45	1,66	1,88	2,09	2,31	2,54	2,73	2,96	3,18	3,39
400	0,73	1,01	1,27	1,56	1,84	2,10	2,40	2,66	2,95	3,22	3,49	3,77	4,06	4,32
500	0,90	1,23	1,56	1,89	2,23	2,55	2,91	3,24	3,57	3,92	4,25	4,59	4,93	5,26
600	1,05	1,45	1,84	2,23	2,62	3,01	3,42	3,80	4,21	4,62	5,00	5,40	5,81	6,20
700	1,19	1,66	2,10	2,55	3,01	3,47	3,94	4,41	4,85	5,32	5,76			
800	1,37	1,88	2,40	2,91	3,42	3,94	4,45	4,98	5,49	6,01	6,53			
900	1,52	2,11	2,68	3,26	3,82	4,41	4,98	5,67	6,25	6,86	7,47			
1000	1,67	2,31	2,95	3,57	4,21	4,85	5,49	6,25	6,89	7,56	8,21			
1100	1,83	2,54	3,22	3,92	4,62	5,32	6,01	6,86	7,56	8,26	8,98			
1200	1,97	2,73	3,49	4,25	5,00	5,76	6,53	7,47	8,21	8,98	9,75			

WEIGHT [kg] KG2L

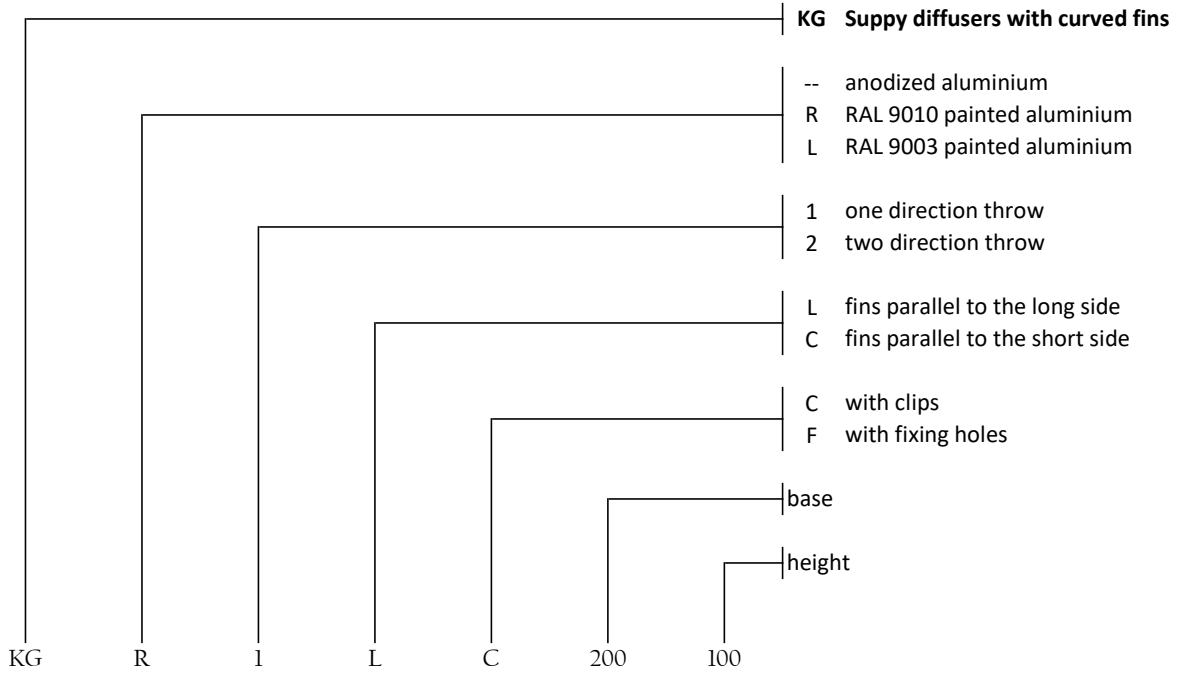
HEIGHT [mm]	BASE [mm]													
	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
100	0,29	0,38	0,47	0,55	0,64	0,73	0,82	0,92	0,99	1,09	1,18	1,26	1,34	1,44
200	0,43	0,58	0,73	0,88	1,02	1,17	1,33	1,49	1,64	1,80	1,94	2,08	2,23	2,39
300	0,58	0,81	1,02	1,22	1,42	1,64	1,85	2,08	2,29	2,51	2,71	2,92	3,13	3,34
400	0,73	1,02	1,27	1,54	1,81	2,08	2,36	2,70	2,96	3,23	3,50	3,77	4,04	4,31
500	0,88	1,22	1,54	1,89	2,21	2,55	2,89	3,29	3,61	3,95	4,28	4,61	4,93	5,27
600	1,02	1,42	1,81	2,21	2,62	3,02	3,42	3,87	4,26	4,66	5,06	5,44	5,83	6,23
700	1,17	1,64	2,08	2,55	3,02	3,47	3,92	4,48	4,94	5,40	5,84			
800	1,33	1,85	2,36	2,89	3,42	3,92	4,45	5,08	5,59	6,10	6,63			
900	1,49	2,10	2,70	3,29	3,87	4,48	5,08	5,67	6,23	6,82	7,40			
1000	1,64	2,31	2,96	3,61	4,26	4,94	5,59	6,23	6,89	7,53	8,17			
1100	1,80	2,53	3,23	3,95	4,66	5,40	6,10	6,82	7,53	8,26	8,96			
1200	1,94	2,73	3,50	4,28	5,06	5,84	6,63	7,40	8,17	8,96	9,75			



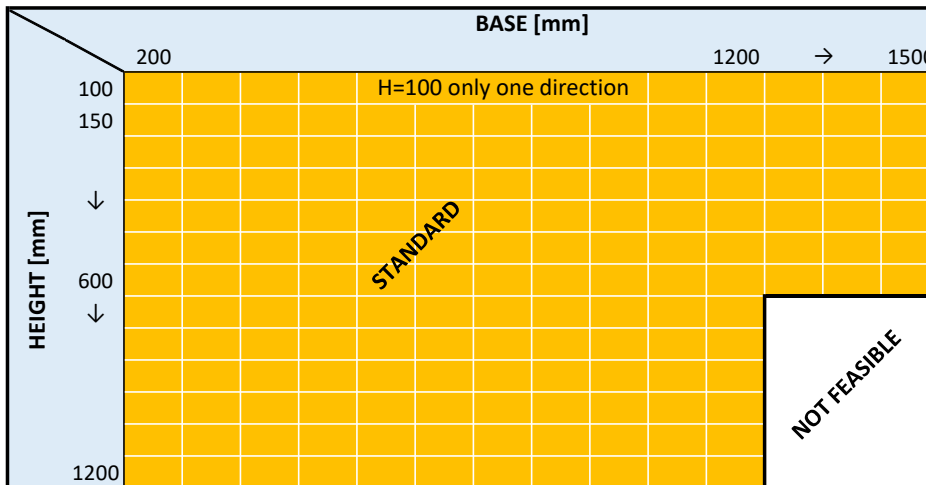
SUPPLY DIFFUSERS WITH CURVED FINS

KG SERIES

HOW TO ORDER



FEASIBLE SIZES - STANDARD STEP 50mm

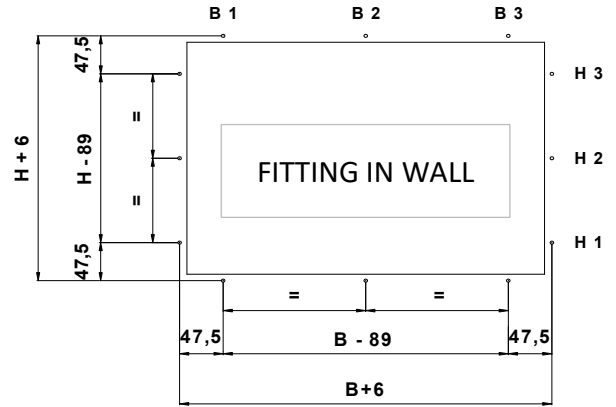
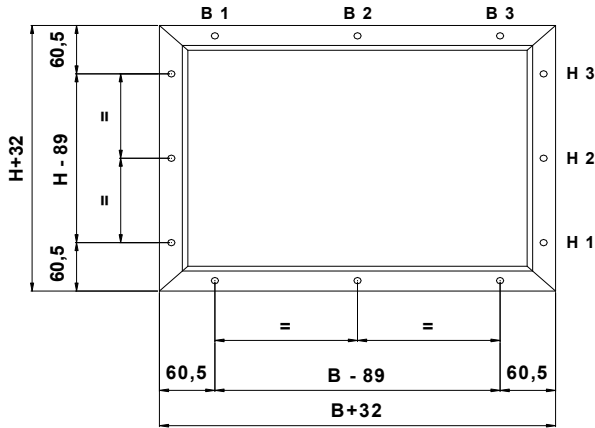




**SUPPLY DIFFUSERS
WITH CURVED FINES**

STANDARD FIXING METODS

**KG
SERIES**



REFERENCE TO NOMINAL SIZES OF GRILLE

B=BASE

H= HEIGHT

NECESSARY HOLES							
B	B1	B2	B3	H	H1	H2	H3
100				100		X	
200				200		X	
300				300		X	
400				400	X		X
				500	X		X
				600	X		X
				700	X		X
				800	X	X	X
				900	X	X	X
				1000	X	X	X
				1100	X	X	X
				1200	X	X	X
				1300	X	X	X
				1400	X	X	X

NECESSARY HOLES							
B	B1	B2	B3	H	H1	H2	H3
500	X		X	100			
600	X		X	200			
700	X		X	300			
800	X	X	X	400			
900	X	X	X	500			
1000	X	X	X	600		X	
1100	X	X	X	700		X	
1200	X	X	X	800		X	
1300	X	X	X	900		X	
1400	X	X	X	1000	X	X	X
1500	X	X	X	1100	X	X	X
				1200	X	X	X
				1300	X	X	X
				1400	X	X	X
				1500	X	X	X



SUPPLY DIFFUSERS WITH CURVED FINS

HIDDEN SCREWS FIXING

U-FIX SERIES

Fixing with hidden screw

The U-FIX kit allows a quick fixing of the grille to the counterframe simply rotating a hidden screw behind the front fins.

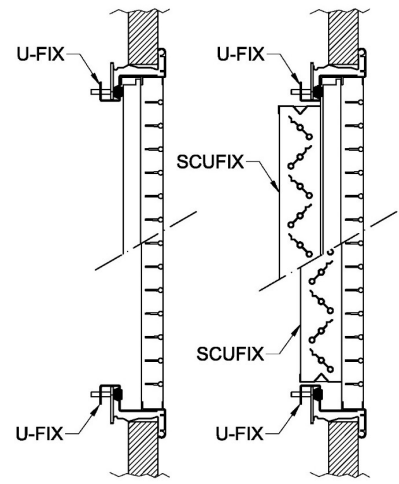
The kit is suitable for grilles with two rows or a single row of fins.

This solution allows you to quickly disassemble and reassemble the grid for any cleaning or maintenance.

The kit consists of two or four elements, depending on the size of the grille.

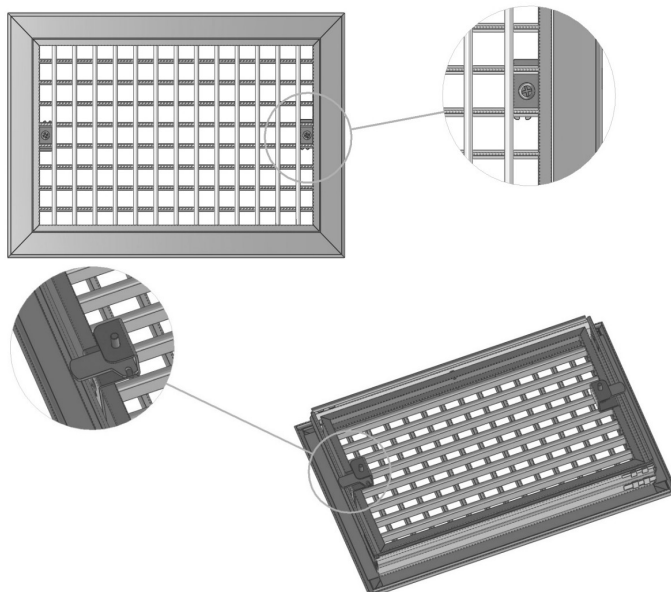
The kit comes already assembled on the grille.

For the sizes up to 1000x300 and 600x600 it is possible to provide an SC damper mounted during manufacturing on the grille frame.



Grille with
hidden screws fixing

		BASE [mm]			
		200 →	600 →	1000 →	1200
HEIGHT [mm]	75				
	100	U-FIX2			
	↓	compatible with			
	300	the damper SCUFIX			
	↓				
	600	U-FIX4			
↓	not compatible with				
1000	the damper SCUFIX				





SUPPLY DIFFUSERS WITH CURVED FINES

HIDDEN SCREWS FIXING
HOW TO ORDER

U-FIX SERIES

HOW TO ORDER

The code of the grille must be with "clips configuration" (not with "holes configuration").
Standard clips will not be provided in presence of U-FIX kit mounted.

The counterframe must be ordered according to standard counterframe dimension.
In case of regulation damper request, please use the specific code SCUFIX

ORDER EXAMPLES

Grille UM 400x200mm with U-FIX and counterframe

1)	UM1HC400200	q.ty	1
2)	U-FIX2	q.ty	1
3)	UTCC0400200	q.ty	1

Grille UM 700x400mm with U-FIX and counterframe

1)	UM1HC700400	q.ty	1
2)	U-FIX4	q.ty	1
3)	UTCC0700400	q.ty	1

Grille UM 400x200mm with U-FIX , counterframe and regulation damper

1)	UM1HC400200	q.ty	1
2)	U-FIX2	q.ty	1
3)	UTCC0400200	q.ty	1
4)	SCUFIX400200	q.ty	1



SUPPLY DIFFUSERS WITH CURVED FINS

KG
SERIES

ACCESSORIES



PP30 Plenum with rear connection
insulated and non insulated version



PP40 Plenum with lateral connection
insulated and non insulated version



SC Control damper



UTC Counterframe

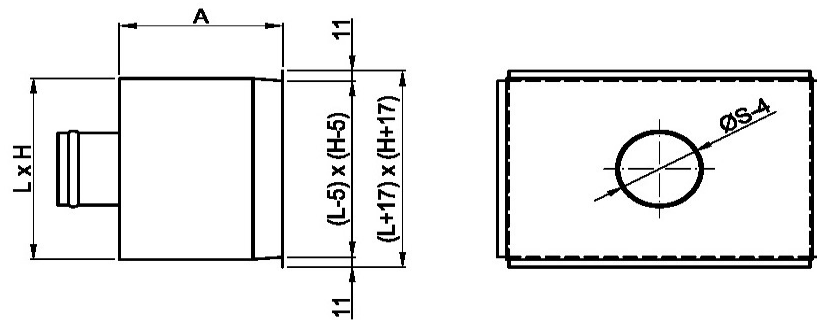
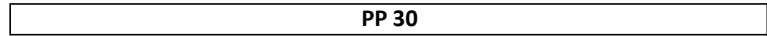


**PLENUM FOR
VENTILATION GRILLES**

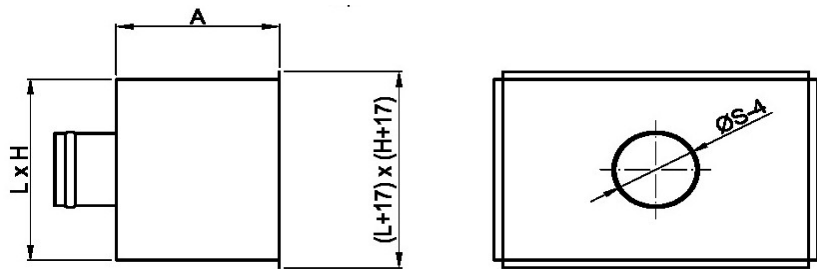
**PP 30
SERIES**

TECHNICAL CHARACTERISTICS

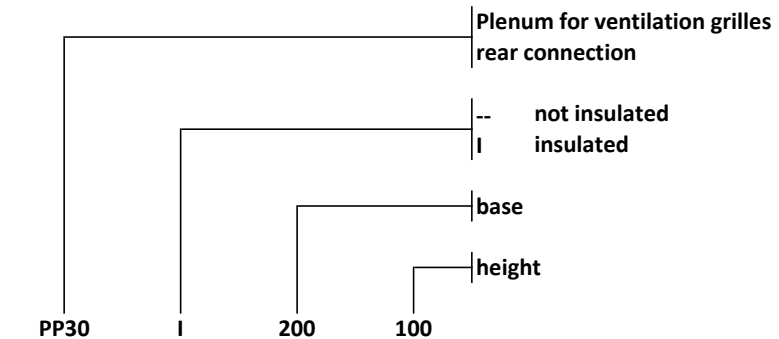
L	H	A	N°	S
200	100	140	1	80
300	100	140	1	80
400	100	140	1	80
500	100	140	2	80
600	100	140	2	80
700	100	140	2	80
800	100	140	2	80
200	150	180	1	127
300	150	180	1	127
400	150	180	1	127
500	150	180	2	127
600	150	180	2	127
700	150	180	2	127
800	150	180	2	127
900	150	180	2	127
1000	150	180	2	127
200	200	220	1	150
300	200	220	1	150
400	200	220	1	180
500	200	220	1	180
600	200	220	2	150
700	200	220	2	150
800	200	220	2	150
900	200	220	2	180
1000	200	220	2	180
200	250	220	1	200
300	250	220	1	200
400	250	220	1	200
500	250	220	1	200
600	250	220	2	150
700	250	220	2	150
800	250	220	2	150
900	250	220	2	180
1000	300	220	2	180
300	300	260	1	250
400	300	260	1	250
500	300	260	1	250
600	300	260	2	160
700	300	260	2	160
800	300	260	2	160
900	300	260	2	200
1000	300	260	2	200
400	400	260	1	350
500	400	260	1	350
600	400	260	2	160
700	400	260	2	160
800	400	260	2	160
900	400	260	2	200
1000	400	260	2	200



STANDARD GRILLE



GRILLE WITH FILTERHOLDER FRAME



For S = 125 - 160 - 200 - 250 connection in ABS - steel on request
For other diameters connection in steel

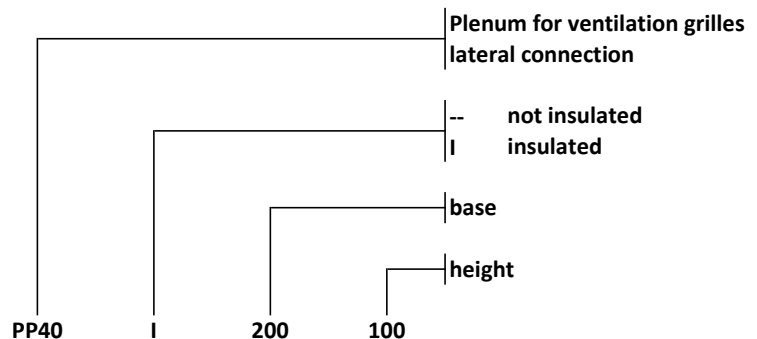
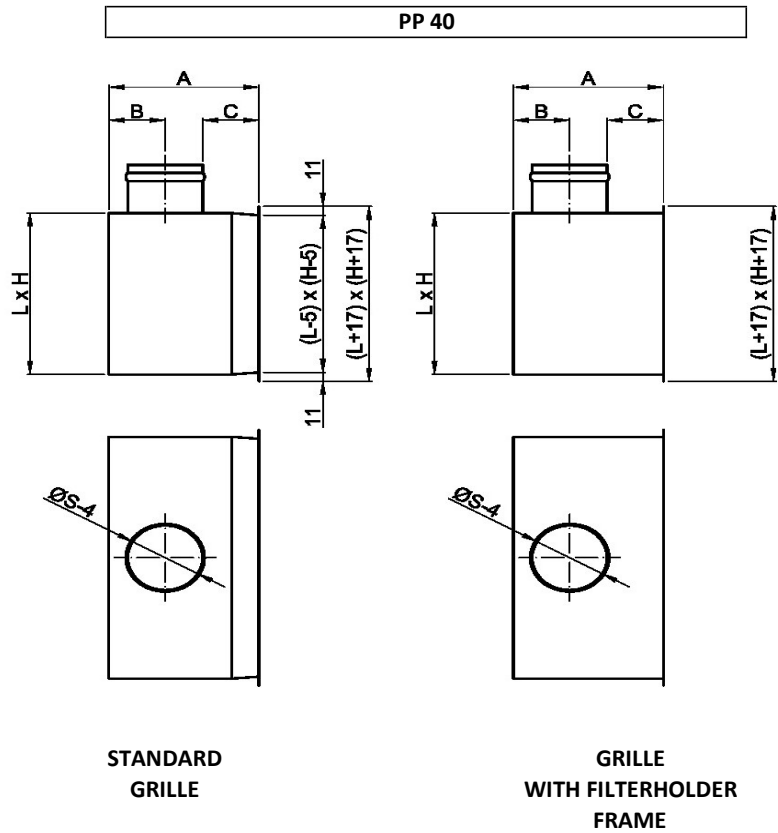


**PLENUM FOR
VENTILATION GRILLES**

**PP 40
SERIES**

TECHNICAL CHARACTERISTICS

L	H	A	B	C	N°	S
200	100	200	70	80	1	100
300	100	250	95	80	1	150
400	100	250	95	80	1	150
500	100	300	120	80	1	200
600	100	300	120	80	1	200
700	100	350	145	80	1	250
800	100	350	145	80	1	250
200	150	250	95	80	1	150
300	150	300	120	80	1	200
400	150	300	120	80	1	200
500	150	350	145	80	1	250
600	150	350	145	80	1	250
700	150	350	145	80	1	250
800	150	415	178	80	1	315
900	150	415	178	80	1	315
1000	150	415	178	80	1	315
200	200	250	95	80	1	150
300	200	250	95	80	1	150
400	200	350	145	80	1	250
500	200	350	145	80	1	250
600	200	415	178	80	1	315
700	200	415	178	80	1	315
800	200	415	178	80	1	315
900	200	450	195	80	1	350
1000	200	450	195	80	1	350
200	250	300	120	80	1	200
300	250	300	120	80	1	200
400	250	350	145	80	1	250
500	250	350	145	80	1	250
600	250	415	178	80	1	315
700	250	415	178	80	1	315
800	250	415	178	80	1	315
900	250	450	195	80	1	350
1000	250	450	195	80	1	350
300	300	350	145	80	1	250
400	300	415	178	80	1	315
500	300	450	195	80	1	350
600	300	450	195	80	1	350
700	300	450	195	80	1	350
800	300	450	195	80	1	350
900	300	500	220	80	1	400
1000	300	500	220	80	1	400
400	400	450	195	80	1	350
500	400	450	195	80	1	350
600	400	450	195	80	1	350
700	400	450	195	80	1	350
800	400	450	195	80	1	350
900	400	500	220	80	1	400
1000	400	500	220	80	1	400



For S = 125 - 160 - 200 - 250 connection in ABS - steel on request
For other diameters connection in steel



CONTROL DAMPERS

SC SERIES

OVERVIEW TECHNICAL CHARACTERISTICS

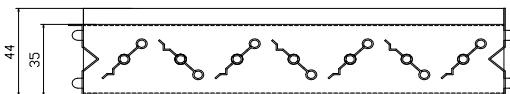
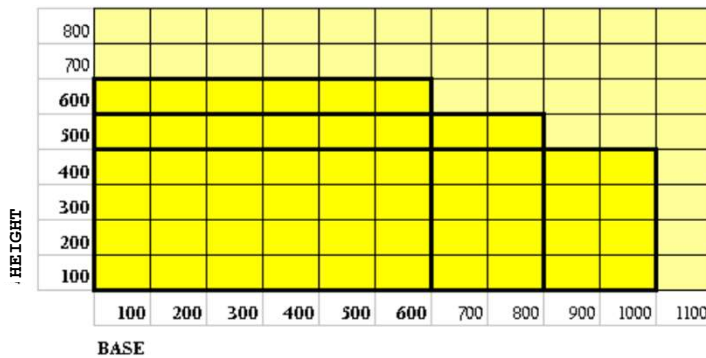
OVERVIEW AND CHARACTERISTICS :

The contrast control dampers of SC series can be fitted to UF KG UM UR GI KN e CR-KN series . They are held in place by special patented clips, designed both for fitting the damper to the grill and for fitting it on a false frame.

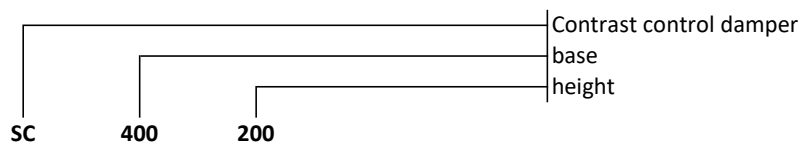
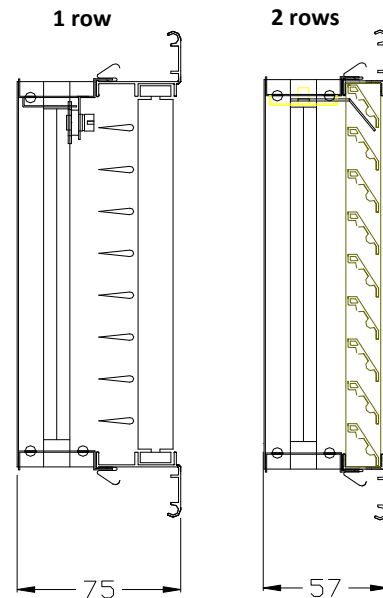
The SC series dampers are made entirely of galvanised steel and have a mechanism for moving and closing all the blades simultaneously.

This mechanism is a simple longitudinal plate that links all the blades, and can be removed by unscrewing a nut using a screwdriver. The careful design, precise assembly, and the quality of the materials used, make this an economical, practical, and efficient component.

Contrast control damper- dimensions that can be created in a single solution



Contrast control damper - overall dimensions





COUNTERFRAMES FOR SUPPLY AND RETURN GRILLES

UTC
SERIES

OVERVIEW

OVERVIEW

The UTC series counterframes used for supply and return grilles are a strong frame on which the fixing clips can rest. They are required if the grilles need to be frequently removed for cleaning, inspection, filter changing and other similar jobs.

The UTC counterframes can be installed both next to steel ducts and on masonry walls.

Bendable parts are placed inside the fixing agent of the wall and a frame that will be completely hidden from the frame of the grille itself, for fixing by means of screws or rivets to the duct wall.

The use of the counterframe on the side of the steel duct allows the use of grilles with fixing clips rather than with screws, therefore allowing to undertake jobs that require removing and reinstalling the grille with the up most simplicity without the need of tools.

The use of the counterframe on masonry walls allows for an almost unlimited number of removals and replacements of the grille without ever damaging or wearing-out the border of the hole made in the wall. The position of the grille can therefore be maintained, precise and secure.

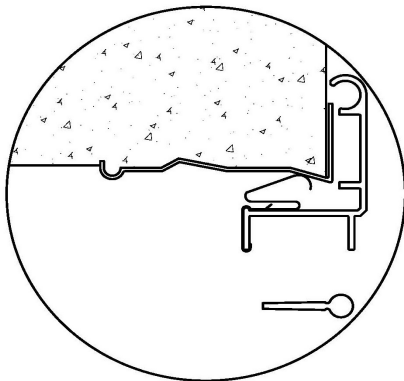
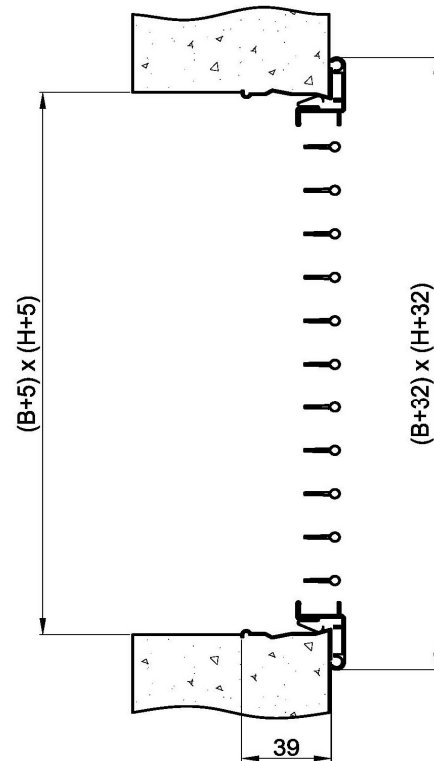
TECHNICAL CHARACTERISTICS

The UTC Series counterframes are made of four separate parts, of galvanized carbon steel sheet, fixable to each other without the need of tools. The parts are completely interchangeable as the particular system of connection eliminated the need to distinguish between horizontal and vertical parts and with between left and right parts.

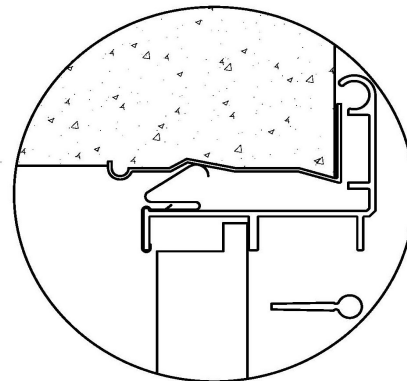
As shown in the illustration, the necessary space for the counterframe needs to be 5mm more than the nominal size of the grille.

AVAILABLE SIZES

The available sizes for each part range from 100mm up to a maximum of 1400mm, in multiples of 50mm. Special sizes are also available on request. By composing the various sizes, all the necessary sizes are achievable.



Mounting with single deflection grille



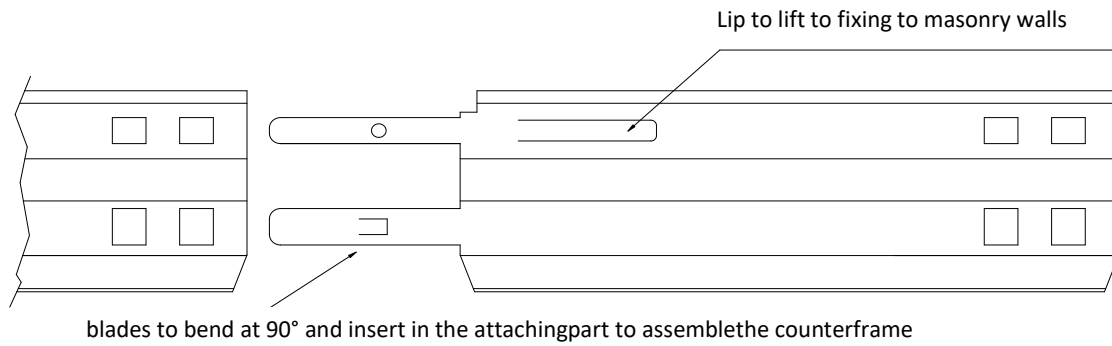
Mounting with double deflection grille



COUNTERFRAMES FOR SUPPLY AND RETURN GRILLES

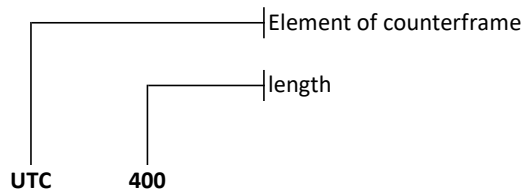
UTC
SERIES

OVERVIEW



Detail of the fixing method between parts

This system allows to quickly assemble the counterframe, even during the construction fase.



Example:

To order a counterframe for a 400x200mm grille,
request:

UTC-400 - 2 pieces

UTC-200 - 2 pieces

To order a counterframe for a 300x300 grille,
request:

UTC-300 - 4 pieces