

RESIDENTIAL EXTRACT GRILLES WITH PERFORATED PANEL

OVERVIEW

UL SERIES

UL: Residential extract grilles with perforated panel and anodised extruded aluminium frame.

CHARACTERISTICS:

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

Panel: made of perforated sheet steel (46% free space).

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

Mounting frame, optional: sheet steel construction.

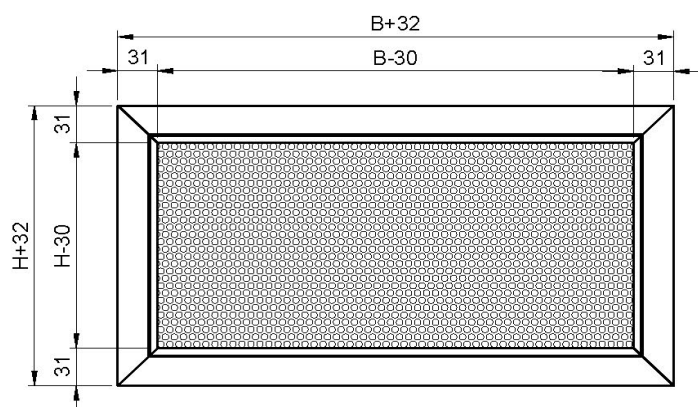
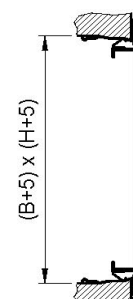
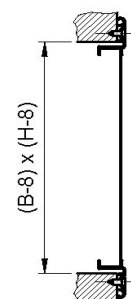
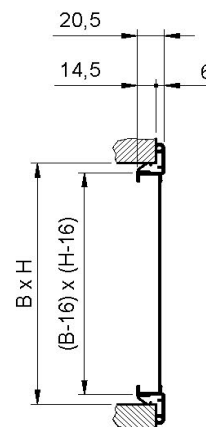
Grille installation: with screwless system with clips;
with traditional screw system directly in the duct or on the wall.
For ceiling installations, the use of clips is not recommended.

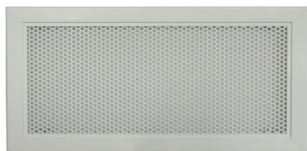
Finish: powder-coated RAL 9010 or RAL 9003.

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.





RESIDENTIAL EXTRACT GRILLES WITH PERFORATED PANEL

UL
SERIES

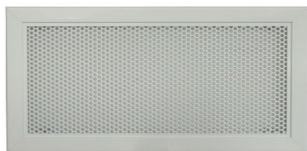
QUICK SELECTION

Model A _k [m²]		Air flow rate																		
		m³/h	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	900	1000
		l/s	(14)	(28)	(42)	(56)	(69)	(83)	(97)	(111)	(125)	(139)	(153)	(167)	(181)	(194)	(208)	(222)	(250)	(278)
UL 200x100 (0,005)	L _{WA} [dB(A)]	<20	38	50																
	V _k [m/s]	2,6	5,1	7,7																
	Δp _t [Pa]	16	65	147																
UL 300x100 (0,009)	L _{WA} [dB(A)]		28	40	48															
	V _k [m/s]		3,2	4,8	6,4															
	Δp _t [Pa]		26	58	104															
UL 400x100 (0,012)	L _{WA} [dB(A)]		21	32	41	47														
	V _k [m/s]		2,4	3,5	4,7	5,8														
	Δp _t [Pa]		14	31	55	84														
UL 500x100 (0,015)	L _{WA} [dB(A)]		<20	27	35	41	47													
	V _k [m/s]		1,9	2,8	3,7	4,6	5,5													
	Δp _t [Pa]		9	19	34	52	75													
UL 600x100 (0,018)	L _{WA} [dB(A)]		<20	23	31	37	42	47												
	V _k [m/s]		1,5	2,3	3,1	3,8	4,5	5,3												
	Δp _t [Pa]		6	13	23	35	51	70												
UL 800x100 (0,025)	L _{WA} [dB(A)]			<20	24	30	36	40	44	48										
	V _k [m/s]			1,7	2,3	2,8	3,3	3,9	4,5	5										
	Δp _t [Pa]			7	13	19	28	38	50	64										
UL 300x150 (0,015)	L _{WA} [dB(A)]		<20	27	36	42	47													
	V _k [m/s]		1,9	2,8	3,8	4,6	5,6													
	Δp _t [Pa]		9	20	35	54	78													
UL 400x150 (0,02)	L _{WA} [dB(A)]			20	29	35	40	45	48											
	V _k [m/s]			2,1	2,7	3,4	4,1	4,7	5,4											
	Δp _t [Pa]			11	19	29	41	56	74											
UL 500x150 (0,026)	L _{WA} [dB(A)]			<20	23	29	35	39	43	46	50									
	V _k [m/s]			1,6	2,2	2,7	3,2	3,7	4,3	4,8	5,4									
	Δp _t [Pa]			7	12	18	26	35	46	58	72									
UL 600x150 (0,031)	L _{WA} [dB(A)]			<20	<20	25	30	35	39	42	45	48								
	V _k [m/s]			1,3	1,8	2,2	2,6	3,1	3,5	4	4,4	4,9								
	Δp _t [Pa]			4	8	12	17	24	31	39	49	59								
UL 1000x200 (0,076)	L _{WA} [dB(A)]						<20	<20	<20	22	25	28	31	33	35	37	39	42	45	
	V _k [m/s]						1,1	1,3	1,5	1,6	1,8	2	2,2	2,4	2,6	2,7	2,9	3,3	3,7	
	Δp _t [Pa]						3	4	5	7	8	10	12	14	16	19	21	27	34	
UL 400x300 (0,046)	L _{WA} [dB(A)]				<20	<20	22	26	30	34	37	39	42	44	46	48	50			
	V _k [m/s]				1,2	1,5	1,8	2,1	2,4	2,7	3	3,3	3,6	3,9	4,2	4,5	4,8			
	Δp _t [Pa]				4	6	8	11	15	18	23	28	33	39	45	51	58			

10 ≤ L_{WA} < 30

30 ≤ L_{WA} < 40

40 ≤ L_{WA} < 50



RESIDENTIAL EXTRACT GRILLES WITH PERFORATED PANEL

QUICK SELECTION

UL SERIES

Model A _k [m²]		Air flow rate																		
		m³/h	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
		l/s	(69)	(83)	(97)	(111)	(125)	(139)	(153)	(167)	(194)	(222)	(250)	(278)	(306)	(333)	(361)	(389)	(417)	(444)
UL 500x300 (0,058)	L _{WA} [dB(A)]	<20	<20	21	25	28	31	34	37	41	45	48								
	V _k [m/s]	1,2	1,4	1,7	1,9	2,1	2,4	2,6	2,9	3,3	3,8	4,3								
	Δp _t [Pa]	3	5	7	9	11	14	17	20	28	36	46								
UL 600x300 (0,071)	L _{WA} [dB(A)]		<20	<20	20	24	27	30	32	37	40	44	47	50						
	V _k [m/s]		1,2	1,4	1,6	1,8	2	2,2	2,4	2,7	3,1	3,5	3,9	4,3						
	Δp _t [Pa]		3	5	6	8	10	12	14	19	25	31	39	47						
UL 800x300 (0,096)	L _{WA} [dB(A)]			<20	<20	<20	20	23	25	30	34	37	40	43	45	48	50			
	V _k [m/s]			1	1,2	1,3	1,5	1,6	1,7	2	2,3	2,6	2,9	3,2	3,5	3,8	4,1			
	Δp _t [Pa]			3	3	4	5	6	8	10	13	17	21	26	30	36	41			
UL 1000x300 (0,12)	L _{WA} [dB(A)]					<20	<20	<20	20	25	28	32	35	38	40	43	45	47	49	
	V _k [m/s]					1	1,2	1,3	1,4	1,6	1,8	2,1	2,3	2,5	2,8	3	3,2	3,5	3,7	
	Δp _t [Pa]					3	3	4	5	6	8	11	13	16	19	22	26	30	34	

 10 ≤ L_{WA} < 30

 30 ≤ L_{WA} < 40

 40 ≤ L_{WA} < 50

Data valid for:

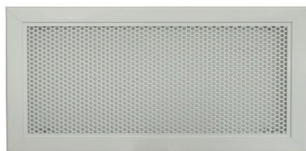
- Exhaust air

Terminology:

A_k = effective free area

V_k = effective face velocity

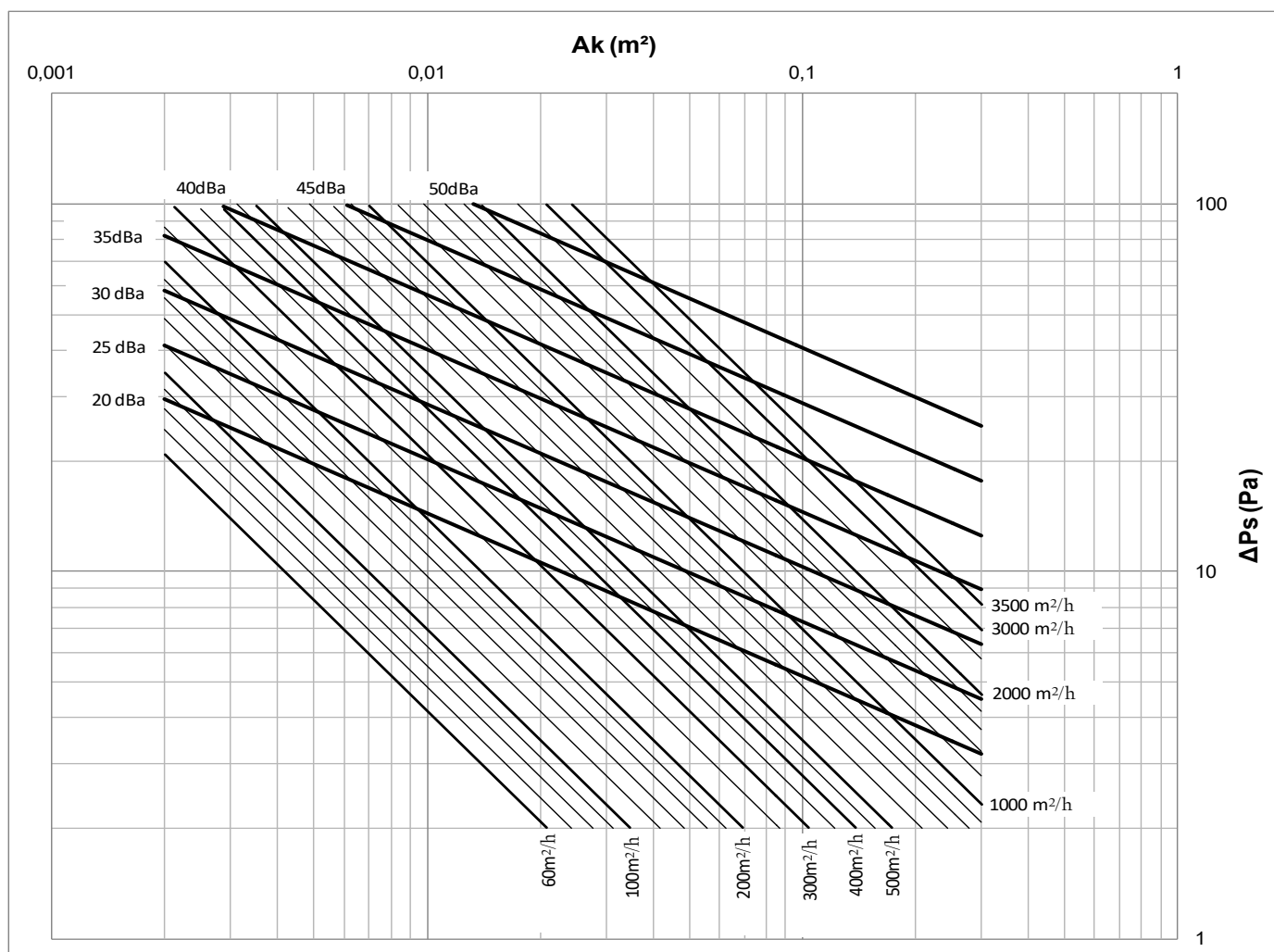
Δp_t = total pressure drop



RESIDENTIAL EXTRACT GRILLES WITH PERFORATED PANEL

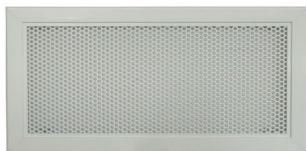
UL
SERIES

PERFORMANCE



EFFECTIVE AREA A_k [m²]

	BASE [mm]											
	100	200	300	400	500	600	700	800	900	1000	1100	1200
100	0,002	0,005	0,009	0,012	0,015	0,018	0,022	0,025	0,028	0,031	0,034	0,038
200	0,005	0,013	0,021	0,029	0,037	0,045	0,052	0,060	0,068	0,076	0,084	0,091
300	0,009	0,021	0,034	0,046	0,058	0,071	0,083	0,096	0,108	0,120	0,133	0,145
400	0,012	0,029	0,046	0,063	0,080	0,097	0,114	0,131	0,148	0,165	0,182	0,199
500	0,015	0,037	0,058	0,080	0,102	0,123	0,145	0,166	0,188	0,210	0,231	0,253
600	0,018	0,045	0,071	0,097	0,123	0,149	0,176	0,202	0,228	0,254	0,281	0,307
700	0,022	0,052	0,083	0,114	0,145	0,176	0,206	0,237	0,268	0,299	0,330	0,361
800	0,025	0,060	0,096	0,131	0,166	0,202	0,237	0,273	0,308	0,344	0,379	0,414
900	0,028	0,068	0,108	0,148	0,188	0,228	0,268	0,308	0,348	0,388	0,428	0,468
1000	0,031	0,076	0,120	0,165	0,210	0,254	0,299	0,344	0,388	0,433	0,477	0,522
1100	0,034	0,084	0,133	0,182	0,231	0,281	0,330	0,379	0,428	0,477	0,527	0,576
1200	0,038	0,091	0,145	0,199	0,253	0,307	0,361	0,414	0,468	0,522	0,576	0,630



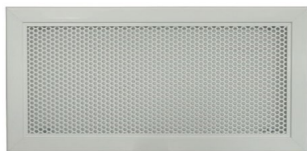
RESIDENTIAL EXTRACT GRILLES WITH PERFORATED PANEL

UL
SERIES

WEIGHTS

WEIGHT [kg] UL

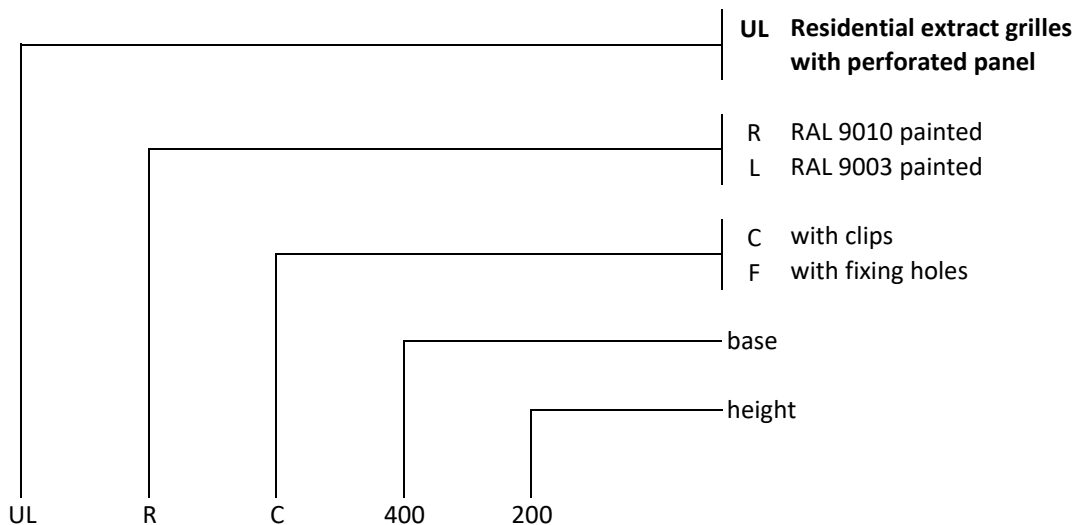
	BASE [mm]											
	100	200	300	400	500	600	700	800	900	1000	1100	1200
100	0,19	0,27	0,35	0,43	0,51	0,59	0,67	0,76	0,84	0,92	1,00	1,08
200	0,27	0,39	0,51	0,63	0,75	0,86	0,98	1,11	1,22	1,34	1,46	1,58
300	0,35	0,51	0,67	0,82	0,98	1,13	1,29	1,45	1,61	1,76	1,92	2,08
400	0,43	0,63	0,82	1,02	1,21	1,40	1,60	1,80	1,99	2,18	2,38	2,58
500	0,51	0,75	0,98	1,21	1,44	1,67	1,91	2,14	2,37	2,61	2,84	3,08
600	0,59	0,86	1,13	1,40	1,67	1,94	2,21	2,49	2,76	3,03	3,30	3,57
700	0,67	0,98	1,29	1,60	1,91	2,21	2,52	2,83	3,14	3,45	3,76	4,07
800	0,76	1,11	1,45	1,80	2,14	2,49	2,83	3,19	3,53	3,88	4,22	4,58
900	0,84	1,22	1,61	1,99	2,37	2,76	3,14	3,53	3,92	4,30	4,68	5,07
1000	0,92	1,34	1,76	2,18	2,61	3,03	3,45	3,88	4,30	4,72	5,14	5,57
1100	1,00	1,46	1,92	2,38	2,84	3,30	3,76	4,22	4,68	5,14	5,60	6,07
1200	1,08	1,58	2,08	2,58	3,08	3,57	4,07	4,58	5,07	5,57	6,07	6,57



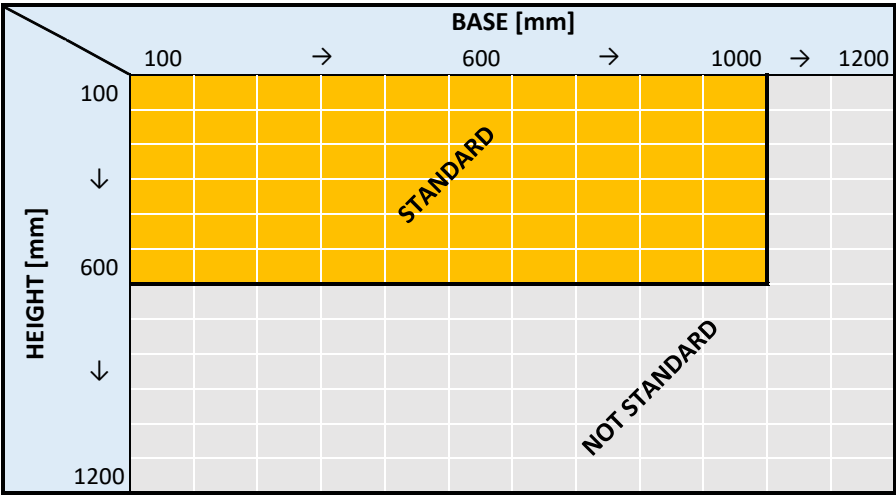
RESIDENTIAL EXTRACT GRILLES WITH PERFORATED PANEL

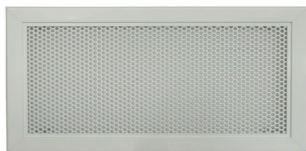
UL
SERIES

HOW TO ORDER



FEASIBLE SIZES - STANDARD STEP 50mm

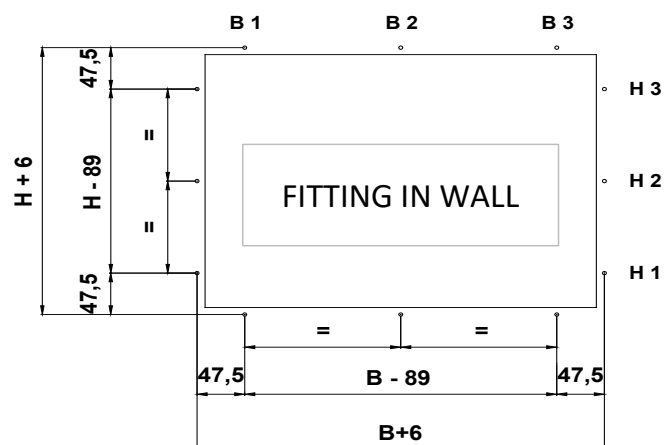
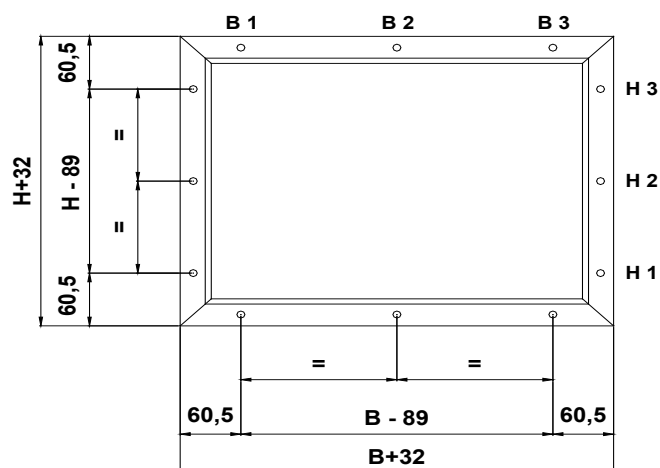




RESIDENTIAL EXTRACT GRILLES WITH PERFORATED PANEL

STANDARD FIXING METODS

UL
SERIES



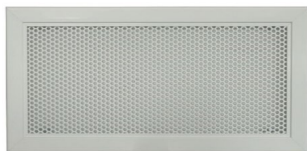
REFERENCE TO NOMINAL SIZES OF GRILLE

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

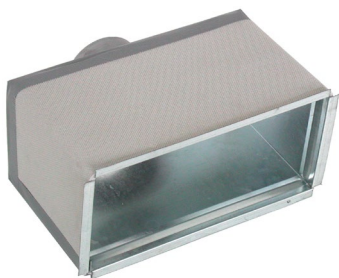
NECESSARY HOLES							
B	B1	B2	B3	H	H1	H2	H3
500	X		X	100			
600	X		X	200			
700	X		X	300			
800	X	X	X	400			
900	X	X	X	500			
1000	X	X	X	600		X	
1100	X	X	X	700		X	
1200	X	X	X	800		X	
1300	X	X	X	900		X	
1400	X	X	X	1000	X	X	X
1500	X	X	X	1100	X	X	X
				1200	X	X	X
				1300	X	X	X
				1400	X	X	X
				1500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



RESIDENTIAL EXTRACT GRILLES WITH PERFORATED PANEL

UL
SERIES

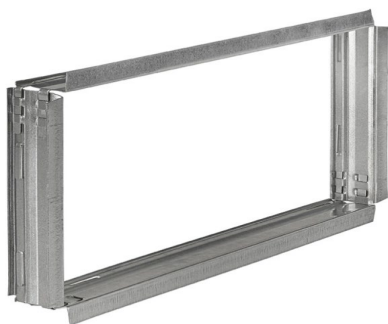
ACCESSORIES



PP30 Plenum with rear connection
insulated and non insulated version



PP40 Plenum with lateral connection
insulated and non insulated version



UTC Counterframe



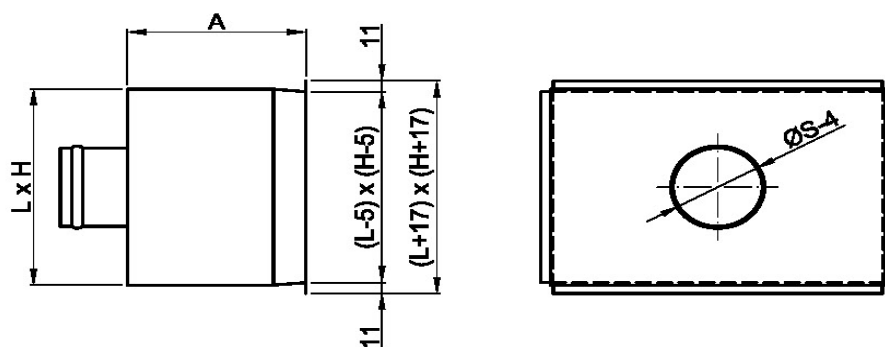
PLENUM FOR VENTILATION GRILLES

TECHNICAL CHARACTERISTICS

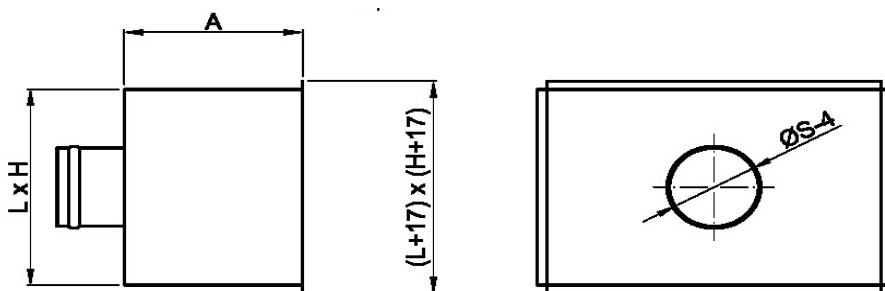
PP 30 SERIES

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

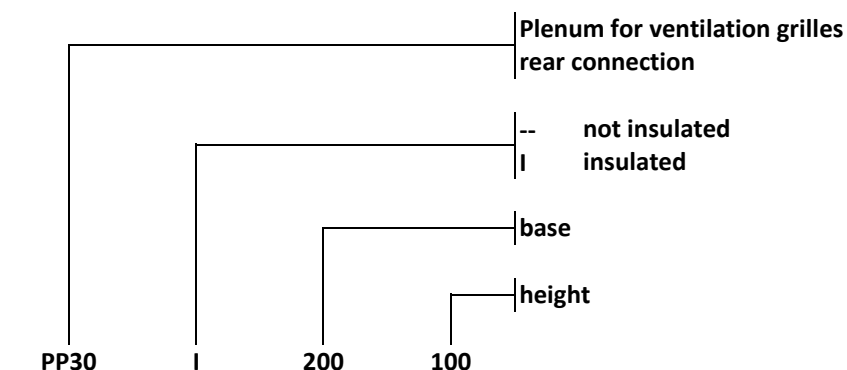
PP 30



STANDARD GRILLE



GRILLE WITH FILTERHOLDER FRAME



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

For other diameters connection in steel

MP3

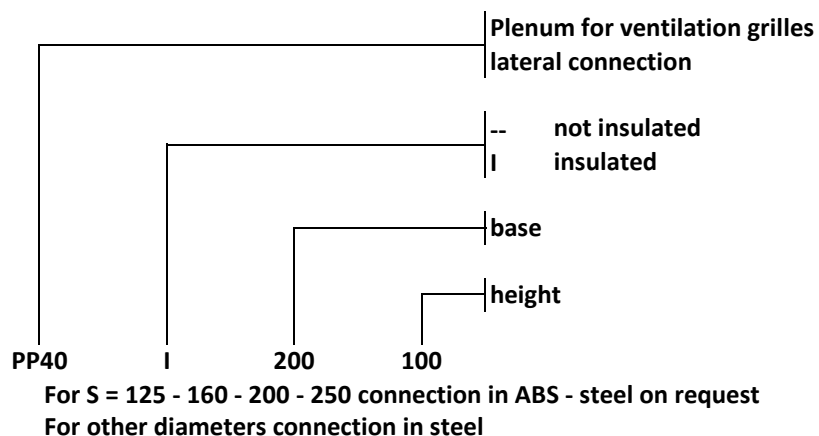
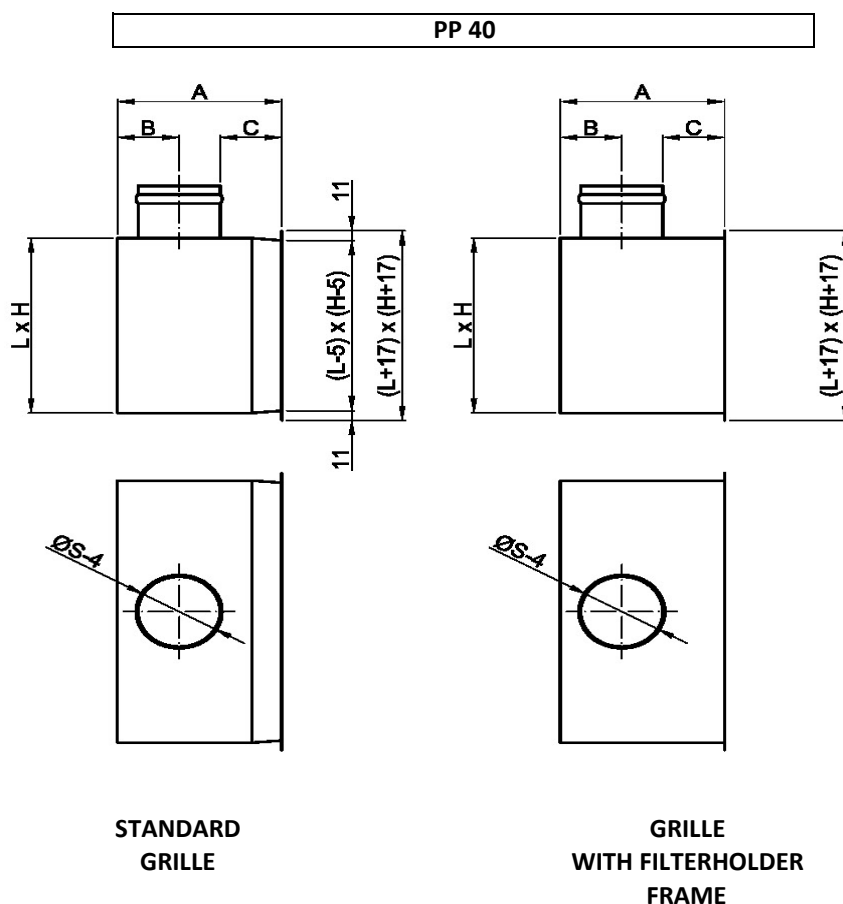


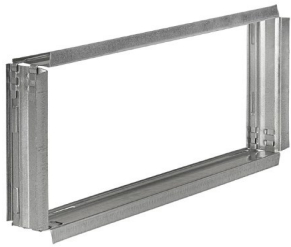
PLENUM FOR VENTILATION GRILLES

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





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.

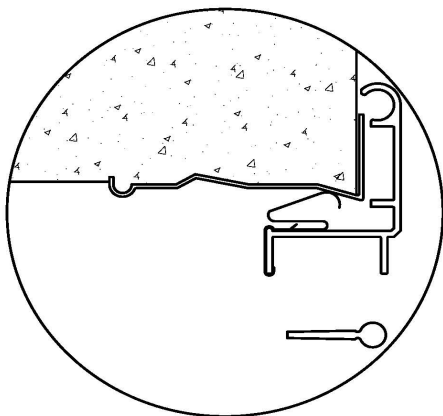
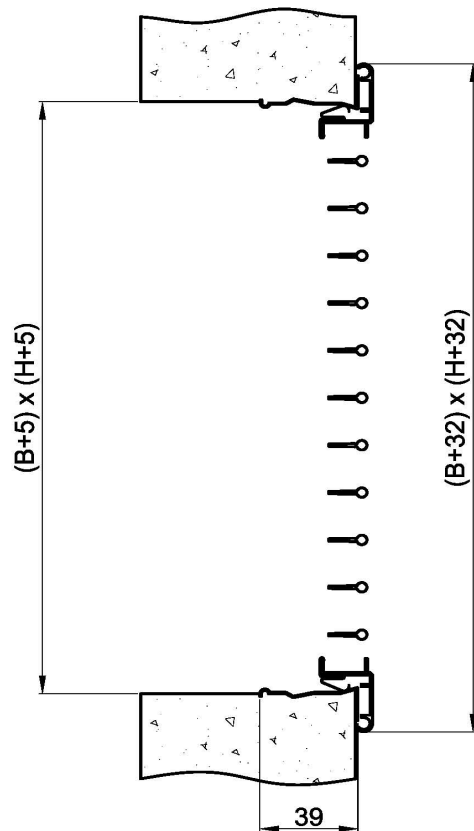
As shown in the illustration, the necessary space for the counterframe needs to be 5mm more than the nominal size of the grille.

AVAILABLE SIZES

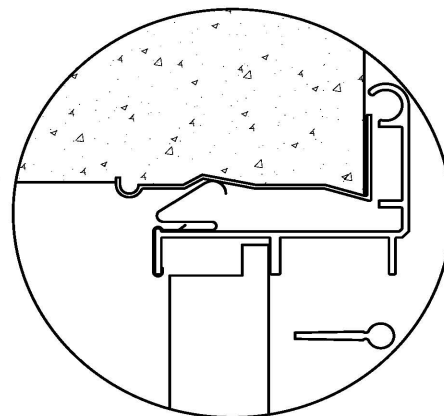
The available sizes for each part range from 100mm up to a maximum of 1400mm, in multiples of 50mm.

Special sizes are also available on request.

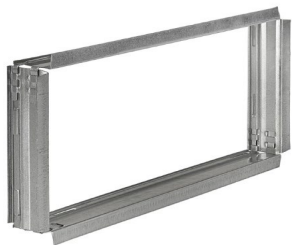
By composing the various sizes, all the necessary sizes are achievable.



Mounting with single deflection grille



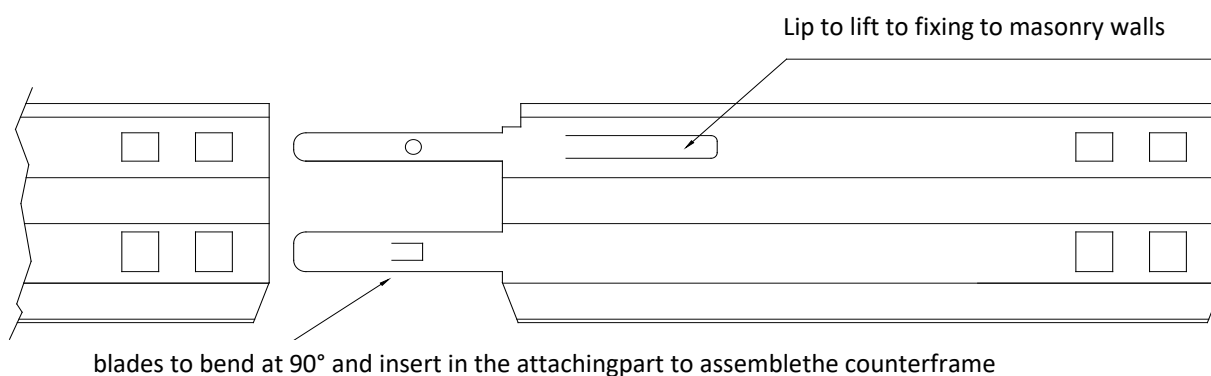
Mounting with double deflection grille



COUNTERFRAMES FOR SUPPLY AND RETURN GRILLES

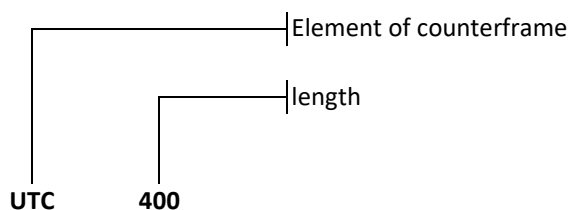
UTC
SERIES

OVERVIEW



Detail of the fixing method between parts

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



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