Euroclima DIFUSIÓN, SA

E-RP

Door grille

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Description E-RP

"V" shaped Blades grille with 15 mm thick frame. Made of extruded aluminium profiles.

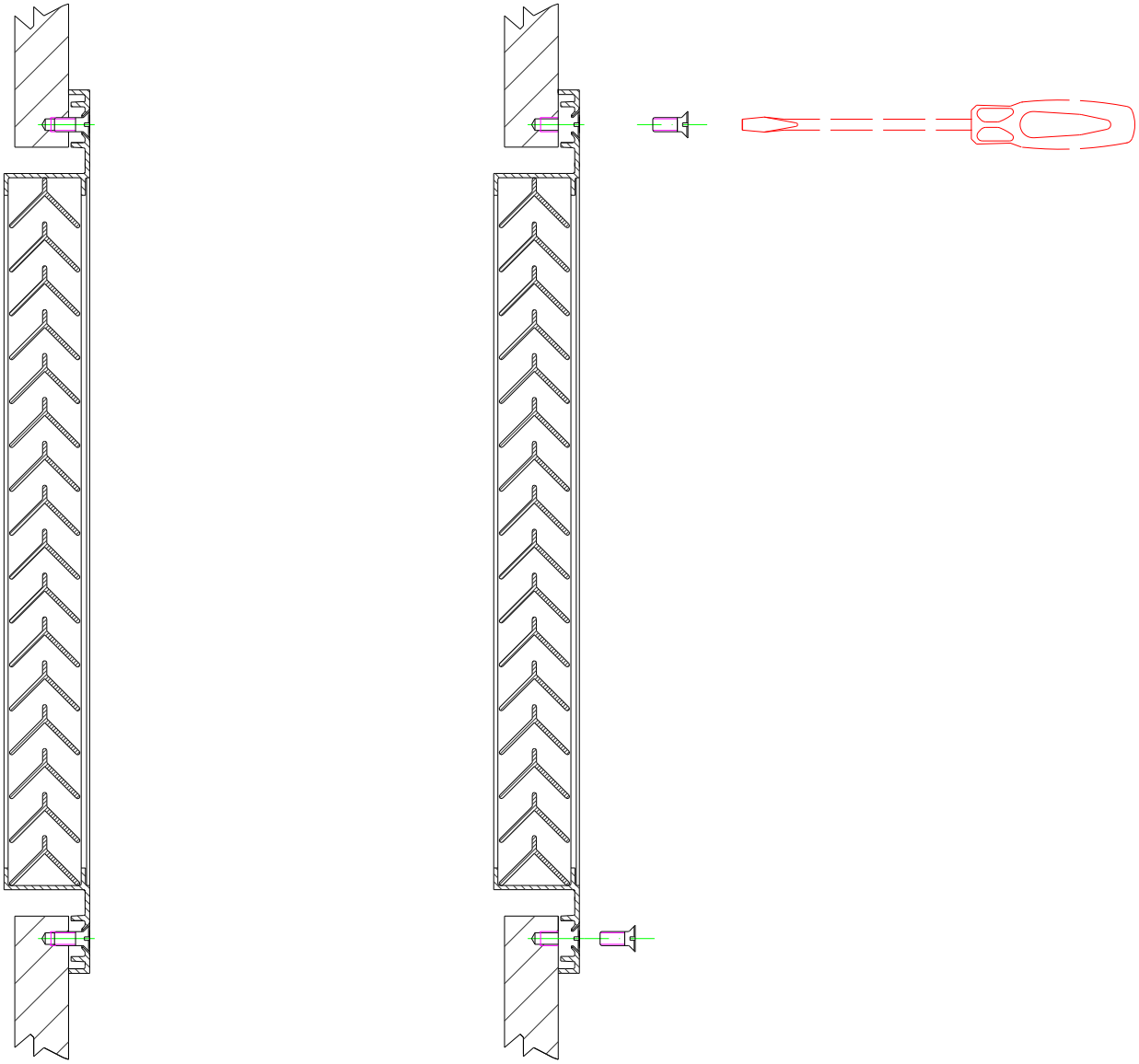
Fixtures:

- ✓ Screws

Finish: Anodized or white aluminium. It can be supplied in other colours on request

Applications: Usually door grilles are used in doors to join the room to the return via a passageway, avoiding an excess of pressure in the room.

Fixtures E-RP

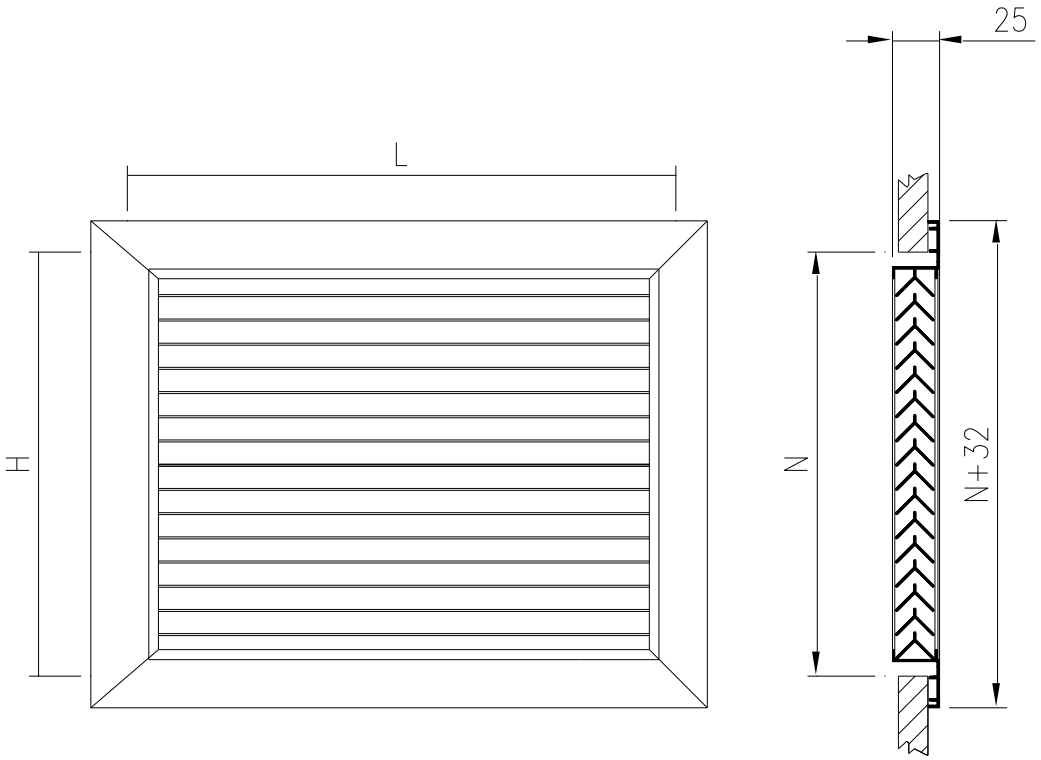


Screws:

1. Place the grill in the hole made in the door
2. Mark the holes to be made.
3. Drill the door at the marked points
4. Place the grill and screw it

Dimensions E-RP

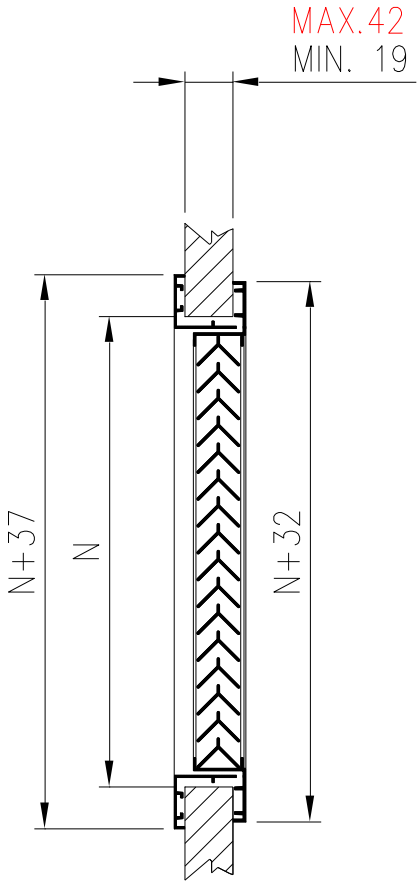
The nominal dimensions are established by the L and H heights which coincide with the size of the hole necessary to instal the grille



H \ L	200	300	400	500	600	700
100	*	*	*	*	*	*
150	*	*	*	*	*	*
200	*	*	*	*	*	*
250	*	*	*	*	*	*
300	*	*	*	*	*	*
350	*	*	*	*	*	*
400	*	*	*	*	*	*
450	*	*	*	*	*	*
500	*	*	*	*	*	*

Note: The dimensions indicated on the table are standard. Other grilles of larger or intermediate sizes can be manufactured on request.

Accessories E-RP + CM



E-CM

E-CM: Frame to place on the back of the door.

Selection table E-RP

HEIGHT	LENGHT												
500													
400													400
350												400	
300									300		400	500	500
250								300		400	500		600
200			200			300		400		500	600	700	
150		200		300		400		500	600	700			
100	200	300	400		500	600	700						

m³/h

100	Speed[m/s]	3											
	P [mm.c.W.]	1,8											
	Sound L [dB(A)]	20											
150	Speed[m/s]	4,5											
	P [mm.c.W.]	4,1											
	Sound L [dB(A)]	30											
200	Speed[m/s]		3,8	2,8									
	P [mm.c.W.]		3,1	1,7									
	Sound L [dB(A)]		28	22									
300	Speed[m/s]			4,2	3,8	3,4	2,8						
	P [mm.c.W.]			3,7	2,9	2,4	1,6						
	Sound L [dB(A)]			32	30	28	24						
400	Speed[m/s]					4,5	3,7	3,2	2,8				
	P [mm.c.W.]					4,2	2,9	2,1	1,6				
	Sound L [dB(A)]					35	31	28	25				
500	Speed[m/s]							4	3,5	2,9	2,5		
	P [mm.c.W.]							3,3	2,5	1,7	1,3		
	Sound L [dB(A)]							33	31	27	24		
600	Speed[m/s]									3,5	3	2,5	2
	P [mm.c.W.]									2,5	1,8	1,3	0,8
	Sound L [dB(A)]									32	28	25	20
700	Speed[m/s]									4	3,4	2,9	2,3
	P [mm.c.W.]									3,4	2,5	1,8	1,1
	Sound L [dB(A)]									35	32	29	24
800	Speed[m/s]										3,9	3,3	2,9	2,6
	P [mm.c.W.]										3,2	2,3	1,7	1,4
	Sound L [dB(A)]										36	32	29	27

Speed = Effective velocity **P** = Pressure loss **Sound L.** = Sound Level

Selection table E-RP

HEIGHT	LENGHT								
500							500	600	700
400			400		500	600	700		
350		400		500	600	700			
300	400	500	500	600	700				
250	500		600	700					
200	600	700							
150									
100									

m³/h

900	Speed[m/s]	3,8	3,2	3	2,5				
	P [mm.c.W.]	2,9	2,1	1,8	1,3				
	Sound L [dB(A)]	35	32	30	27				
1000	Speed[m/s]		3,6	3,3	2,8	2,3			
	P [mm.c.W.]		2,7	2,2	1,6	1,1			
	Sound L [dB(A)]		35	33	30	26			
1200	Speed[m/s]				3,4	2,8	2,3		
	P [mm.c.W.]				2,3	1,6	1,1		
	Sound L [dB(A)]				34	30	27		
1400	Speed[m/s]					3,2	2,7	2,4	
	P [mm.c.W.]					2,2	1,6	1,2	
	Sound L [dB(A)]					34	31	28	
1600	Speed[m/s]						3,1	2,7	2,5	2,2
	P [mm.c.W.]						2	1,5	1,3	1
	Sound L [dB(A)]						34	31	30	27
1800	Speed[m/s]							3,1	2,8	2,4
	P [mm.c.W.]							2	1,7	1,2
	Sound L [dB(A)]							34	33	30
2000	Speed[m/s]								3,2	2,7
	P [mm.c.W.]								2,1	1,5
	Sound L [dB(A)]								35	32
2500	Speed[m/s]									3,4
	P [mm.c.W.]									2,4
	Sound L [dB(A)]									38

Speed = Effective velocity **P** = Pressure loss **Sound L. =** Sound Level

Effective surface (m²) E-RP

H \ L	200	300	400	500	600	700
100	0,006	0,009	0,012	0,015	0,018	0,021
150	0,009	0,014	0,019	0,024	0,029	0,034
200	0,012	0,019	0,026	0,033	0,040	0,047
250	0,016	0,025	0,033	0,042	0,051	0,059
300	0,019	0,030	0,040	0,051	0,062	0,072
350	0,023	0,035	0,048	0,060	0,072	0,085
400	0,026	0,040	0,055	0,069	0,083	0,098
450	0,029	0,046	0,062	0,078	0,094	0,111
500	0,033	0,051	0,069	0,087	0,105	0,123

EXAMPLE OF SELECTION

Data: Supply air Flow rate Q = 500 m³/h

Sound Level allowed = 30 dB(A)

HEIGHT	LENGTH												
400													400
350												400	
300									300		400	500	500
250								300		400	500		600
200			200			300		400		500	600	700	
150		200		300		400		500	600	700			
100	200	300	400		500	600	700						
m³/h													

500	Speed[m/s]						4,6	4	3,5	2,9	2,5			
	P [mm.c.W.]						4,5	3,3	2,5	1,7	1,3			
	Sound L [dB(A)]						37	33	31	27	24			

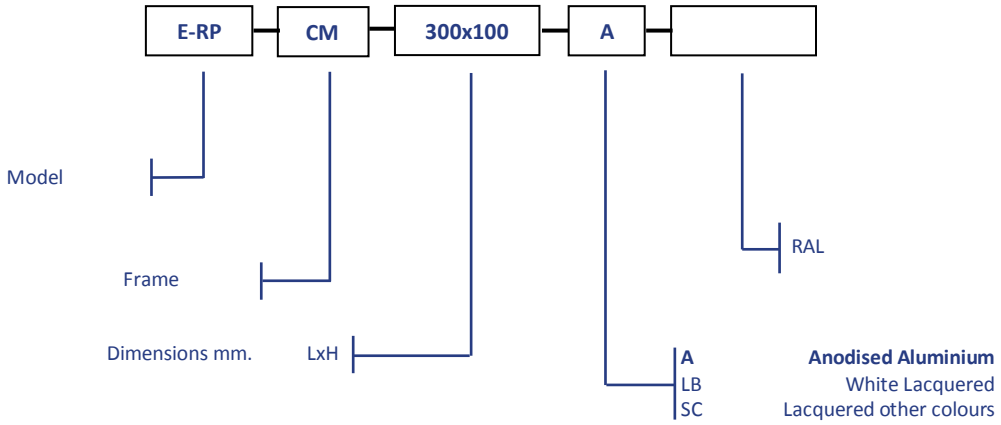
Results : Dimensions 500mm X 100mm

Speed = 3,5 m/s

Pressure Loss P = 2,5 mm.c.W.

Sound level = 31 dB(A)

Order reference:



Note: The options marked in bold will be used in the case no specification is made by the client.

EXAMPLE: E-RP+CM-300x100-A: grille RP with frame CM; 300 mm long and 100 mm high, anodises aluminium.