

MOULDED CONTROL FLOW DOME STRAINER

DESCRIPTION

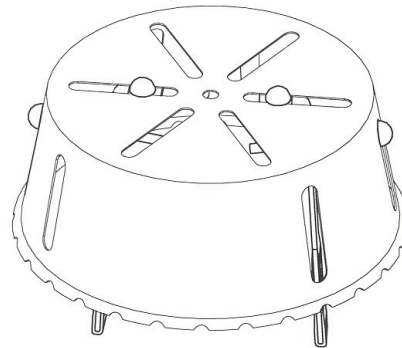
The control flow dome strainer is made of shop moulded aluminum and conceived for flat roof drains where hydraulic loads of the interior rainwater leaders must be restricted in order to meet the requirements of the current codes, the standards of certain municipalities and the drainage system capacity limits.

According to these requirements, the strainer may be modified to limit the water flow by reducing the number of openings, see tables on following pages.

The strainer is available in 2 sizes, small and medium, which are compatible with *Murphco** copper roof drains, being inserted inside the sleeves. Moreover, such strainers may adapt to all types of existing drains as their adjustable legs, coated with gripping rubber, are tightly adjusted inside the sleeve or body of the drain.

TECHNICAL DESCRIPTION OF FINISHED PRODUCT

- Color : Aluminum (metallic grey)
- Dome : Moulded aluminum
Series: 1100
- Legs : Extruded aluminum
6063 T5 solid
Rounded end
- Coating : Red plastic color Guard
No. 17545
- Screws : Stainless steel
2 screws of ¼" x 3"
2 screws of ¼" x ¾"



Moulded control-flow dome strainer

SIZES		SMALL		MEDIUM	
Height		3½"	90 mm	3½"	90 mm
Maximum Width		6¾"	173 mm	9⅞"	232 mm
Legs height		6¾"	170 mm	6¾"	170 mm
Distance between the legs	min.	1"	25 mm	3⅜"	85 mm
	max.	6¾"	173 mm	9⅞"	232 mm

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TABLE: WATER FLOW CORRESPONDING TO THE NUMBER OF OPENINGS FOR A MAXIMUM WATER DEPTH OF 3½"

Number of holes	Water flow (l/s) *	Water flow (gal/min)	Evacuation time **
1	0,9	11,9	24,0
2	1,3	17,2	17,3
3	1,7	22,5	13,2
4	2,1	27,7	10,7
5	2,5	33,0	9,0
6	2,9	38,3	7,8
7	3,3	43,6	6,8
8	3,7	48,9	6,1
9	4,1	54,2	5,5
10	4,5	59,5	5,0
11	4,9	64,7	4,6
12	5,3	70,0	4,2
13	5,7	75,3	3,9
14	6,1	80,6	3,7
15	6,5	85,9	3,5
16	6,9	91,2	3,3
17	7,3	96,5	3,1
18	7,7	101,8	2,9
19	8,1	107,0	2,8
20	8,5	112,3	2,6
21	8,9	117,6	2,5
22	9,3	122,9	2,4

Notes:

*: The water flow is calculated with a maximum water level of 90 mm (3½") at the drain.

** : Maximum evacuation time in hours for a maximum drainage area of 900 m² per drain so that the water depth does not exceed 90 mm (3½"). The complete drainage of water should not last more than 24 hours [article 4.10.4.2) of the 1995 National Plumbing Code of Canada].

MOULDED CONTROL FLOW DOME STRAINER

TABLE: WATER FLOW CORRESPONDING TO THE NUMBER OF OPENINGS FOR A MAXIMUM WATER DEPTH OF 6"

Number of holes	Water flow (l/s) *	Water flow (gal/min)	Evacuation time **
1	1,6	21,6	11,5
2	2,0	26,9	9,2
3	2,4	32,2	7,7
4	2,8	37,5	6,6
5	3,2	42,8	5,8
6	3,6	48,0	5,2
7	4,0	53,3	4,6
8	4,4	58,6	4,2
9	4,8	63,9	3,9
10	5,2	69,2	3,6
11	5,6	74,5	3,3
12	6,0	79,8	3,1
13	6,4	85,1	2,9
14	6,8	90,3	2,7
15	7,2	95,6	2,6
16	7,6	100,9	2,5
17	8,0	106,2	2,3
18	8,4	111,5	2,2
19	8,8	116,8	2,1
20	9,2	122,1	2,0
21	9,6	127,3	1,9
22	10,0	132,6	1,9

Notes:

*: The water flow is calculated with a maximum water level of 150 mm (6") at the drain.

** : Maximum evacuation time in hours for a maximum drainage area of 900 m² per drain so that the water depth does not exceed 150 mm (6"). The complete drainage of water should not last more than 24 hours [article 4.10.4.2) of the 1995 National Plumbing Code of Canada].

Example:

To drain an area of 900 m², with a maximum water flow of 2 l/s imposed by the mechanical engineer and a maximum water depth of 150 mm, it is necessary to install 2 drains, each one equipped with two openings in each dome strainer.

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DESIGNED AND MANUFACTURED BY LES PRODUITS MURPHCO LTÉE

Technical assistance or further information may be obtained from:



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