



# AEROSTRIP<sup>®</sup> Diffuser KD 41



Danish Wastewater  
Equipment

# AEROSTRIP® Diffuser Model KD 41

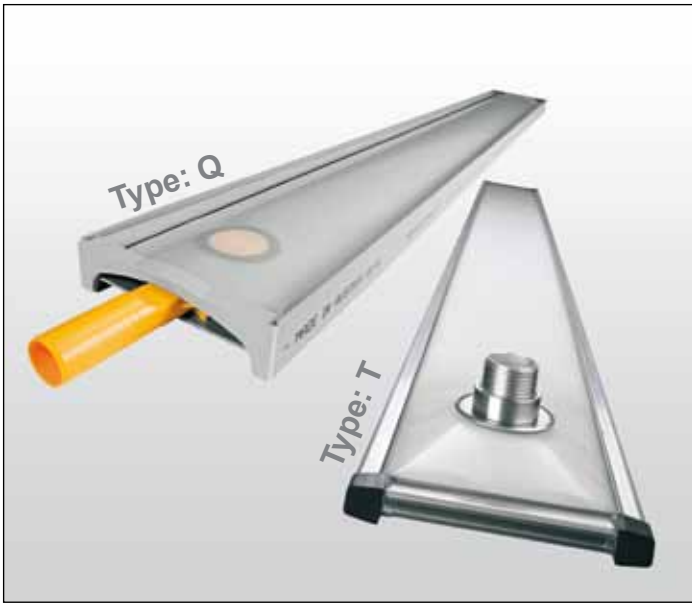
The diffuser is a quality product, developed by an Austrian company in 1995.

AEROSTRIP® diffusers are used in a huge number of plants all over the world. For detailed information, please ask for our reference list.

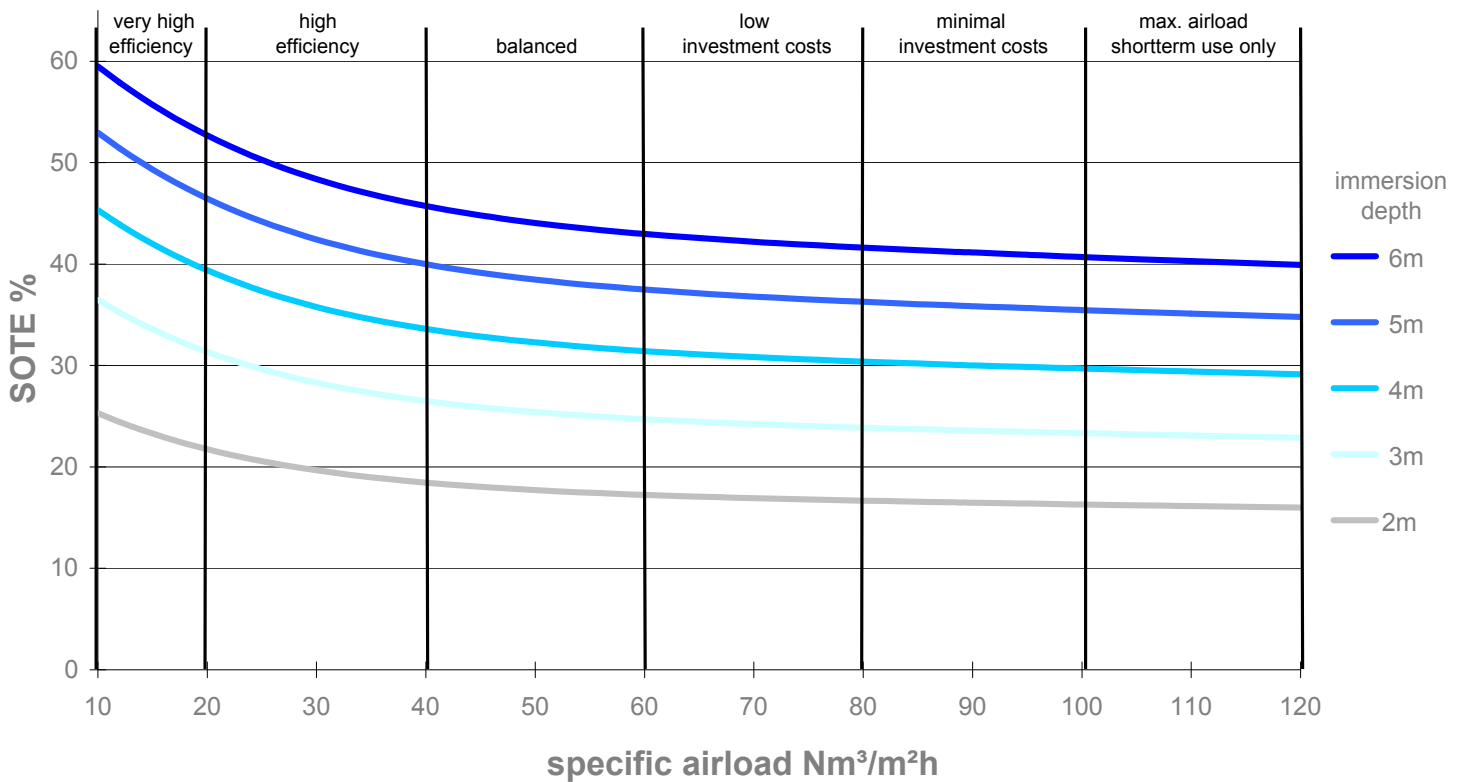
## Facts about AEROSTRIP®:

- Oxygen transfer efficiency of up to 60%.
- Competitive performance through optimal aeration efficiency value, aeration efficiency of up to 5~6 kg O<sub>2</sub>/kWh.
- Diffusers are extremely flat and available in various lengths up to 4.5 meters.
- Installations on the bottom at the tank, this will gain water depth and more travelling time for the bubble on their way to the surface.
- The diffusers do not use EPDM membranes but another type - polyurethane and silicone - that is perforated without material dislocation, and opens pores gradually as the specific load increases.
- The membranes have a lifespan of 15 years, depending on plant design and operating conditions.
- Intermittent operation possible (0~100 % control of airflow range).
- AEROSTRIP® has theoretical coverage of 98 % and a feasible coverage of maximum 70%
- Layout design with flexible lengths allows installation in all existing installations.
- Condensate removal systems is not needed for AEROSTRIP® manifolds.
- Lowest dynamic resistance against water flow (when using propellers).
- By calculating the total cost a life cycle of 15 years shall be reported.
- Membrane renewal expenses are normal. The frequency of the renewal depends on the manufacturer and method used. AEROSTRIP® estimate with a 15 years lifespan.
- Energy expenditures tend to be increasing therefore there is a need for high efficiency aeration systems.
- Efficient systems demand less airflow, smaller pipe work sizes and smaller blower units.

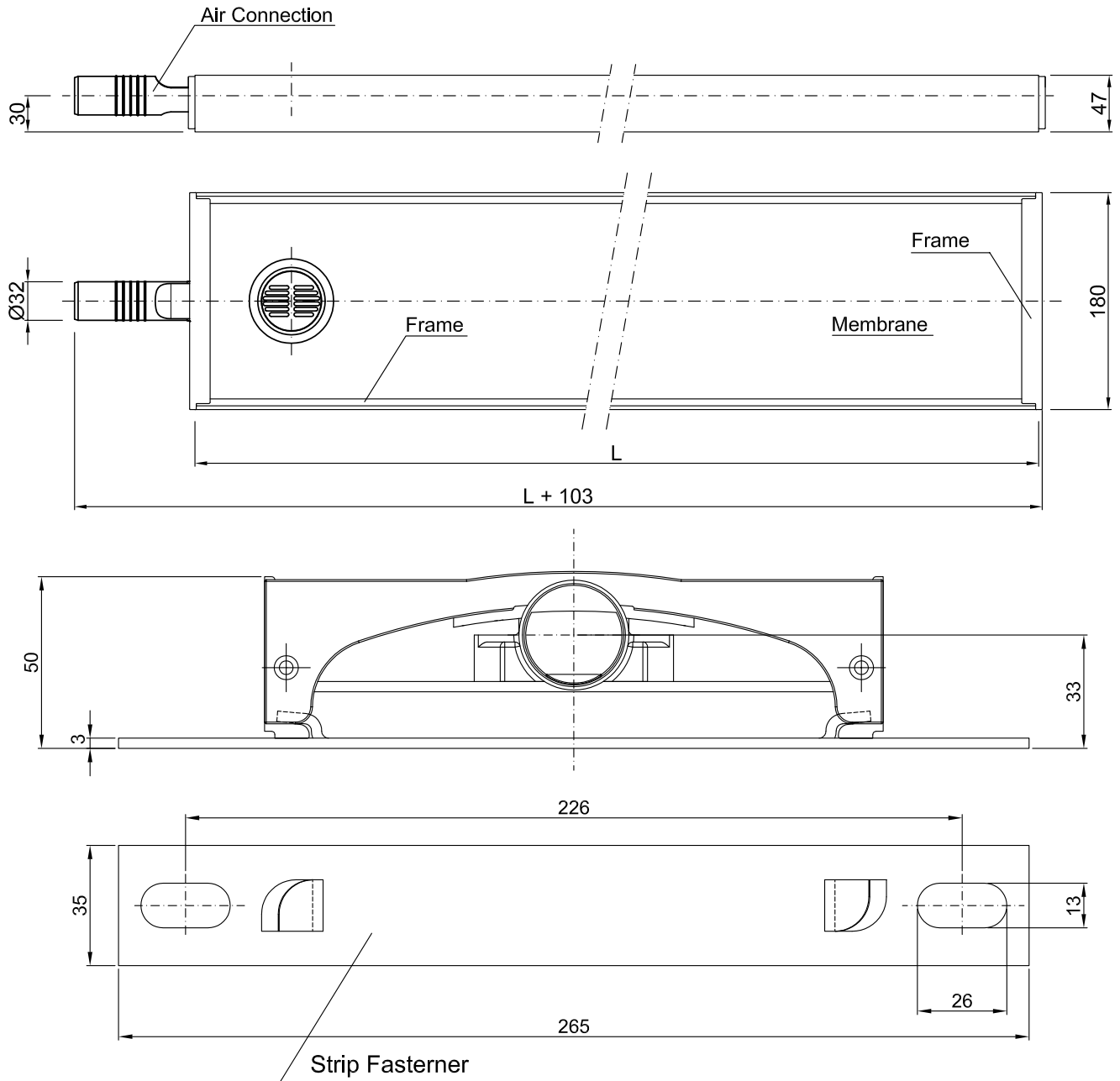




### Standard Oxygen Transfer Efficiency [ % ]



# AEROSTRIP® Diffuser Type Q



Type	L mm	Diffuser Area m <sup>2</sup>	Weight kg	Max airrate Nm <sup>3</sup> /h Continuous duty	Membrane
Q 1,0	1000	0,175	ca. 2,8	14	EU
Q 1,5	1500	0,262	ca. 4,4	21	EU
Q 2,0	2000	0,350	ca. 5,7	28	EU
Q 2,5	2500	0,438	ca. 7,1	35	EU
Q 3,0	3000	0,525	ca. 8,4	42	EU
Q 3,5	3500	0,613	ca. 9,8	49	EU
Q 4,0	4000	0,700	ca. 11,1	56	EU
*Q 4,5	4500	0,787	ca. 12,2	63	EU

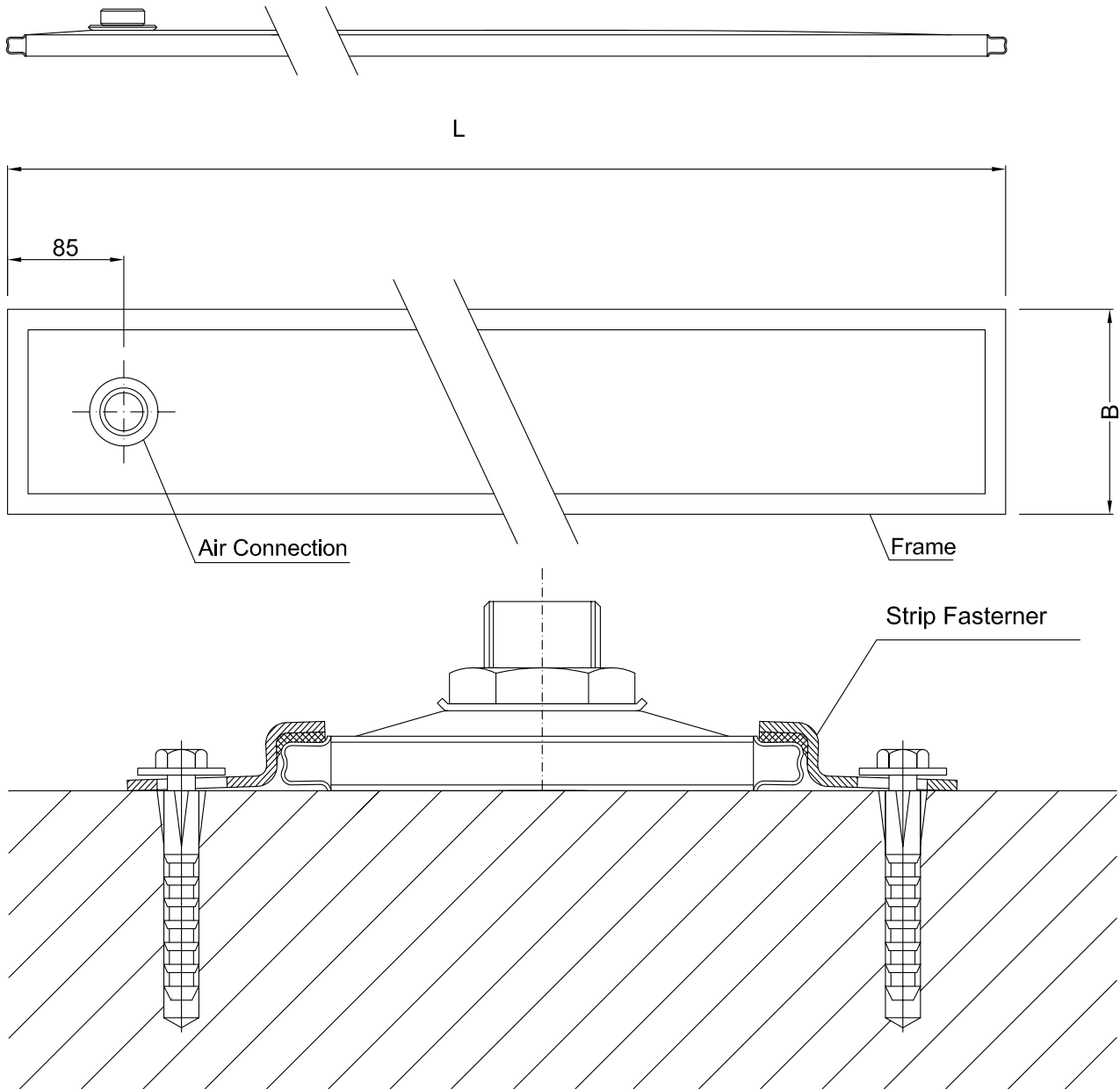
\*Special length on request

## Materials:

Base profile: PVC  
 Peripheral Clips: PVC  
 Membrane: Polyurethane (PUR)  
 Air Connection: Nipple outer diameter da 32 mm  
 Strip Fasteners: Stainless steel 304  
 Clamp Hose: PE/PA

In our diffuser calculation we are calculating with max 80 Nm<sup>3</sup>/h.m<sup>2</sup> resp. 60 Nm<sup>3</sup>/ h.m<sup>2</sup> for race tracks with mixers.

# AEROSTRIP® Diffuser Type T



Type T	L mm	Membrane	B mm	Diffuser area m <sup>2</sup>	Weight kg	Max air rate Nm <sup>3</sup> /h
T2,0-EU-15	2008	EU	150	0,290	ca. 5,3	23
T2,5-EU-15	2508	EU	150	0,363	ca. 6,6	29
T3,0-EU-15	3008	EU	150	0,435	ca. 7,9	35
T3,5-EU-15	3508	EU	150	0,508	ca. 9,2	41
T4,0-EU-15	4008	EU	150	0,580	ca. 10,5	46
T2,0-EU-18	2008	EU	180	0,350	ca. 6,2	28
T2,5-EU-18	2508	EU	180	0,438	ca. 7,7	35
T3,0-EU-18	3008	EU	180	0,525	ca. 9,1	42
T3,5-EU-18	3508	EU	180	0,613	ca. 10,6	49
T4,0-EU-18	4008	EU	180	0,700	ca. 12,1	56

## Materials:

Base Plate: Stainless Steel (316)

Peripheral Strips: Stainless Steel (316)

Membrane: Polyurethane (PUR)

Air Connection: 3/4" eller 1"

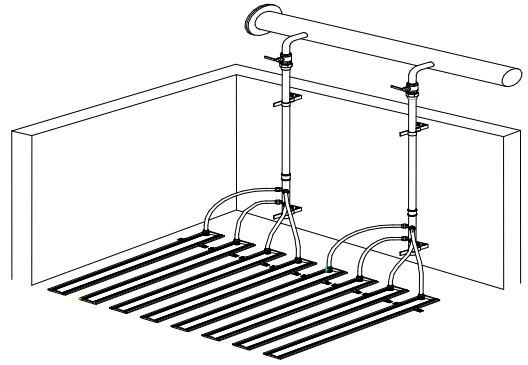
Stainless Steel (316)

Hexagon Nut: Stainless Steel (316)

Sealing : SBR

# Mounting options

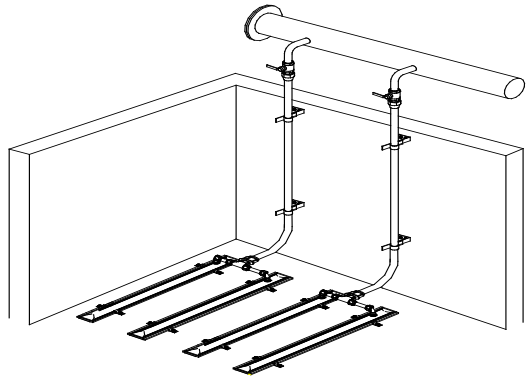
1. Air distributor Type A



2. Air distributor Type B



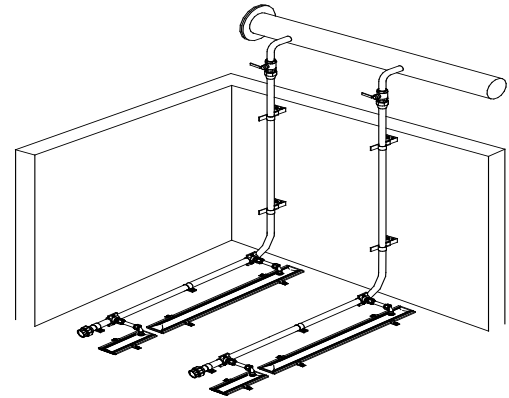
Tee piece



3. Air distributor Type C



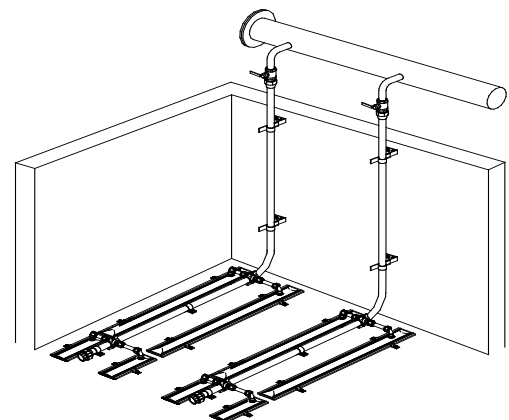
Clamp saddle



4. Air distributor Type C



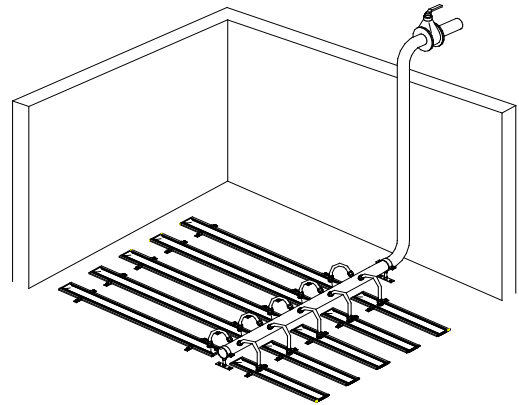
Double clamp saddle



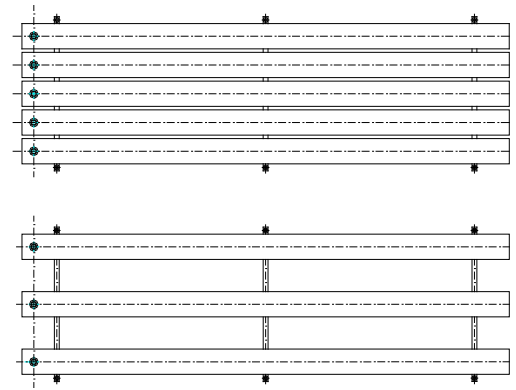
### 5. Air Distributor Type D



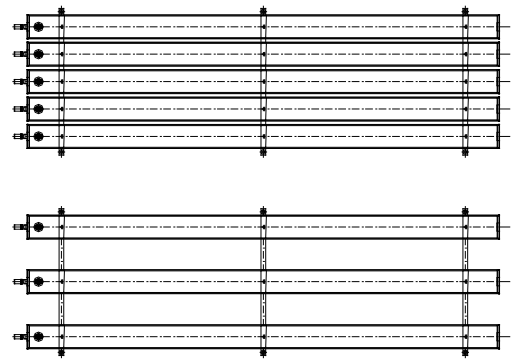
### Central air supply



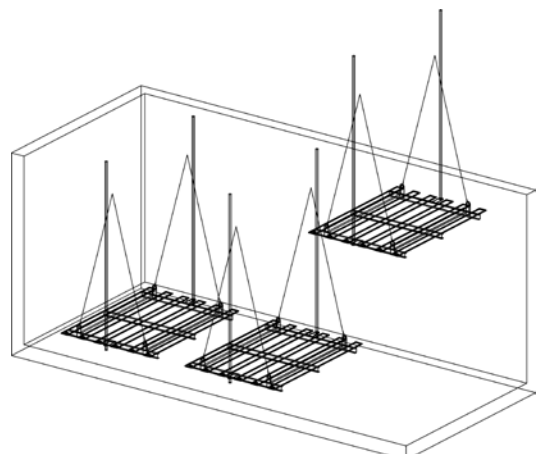
### 6. Manifold Type E

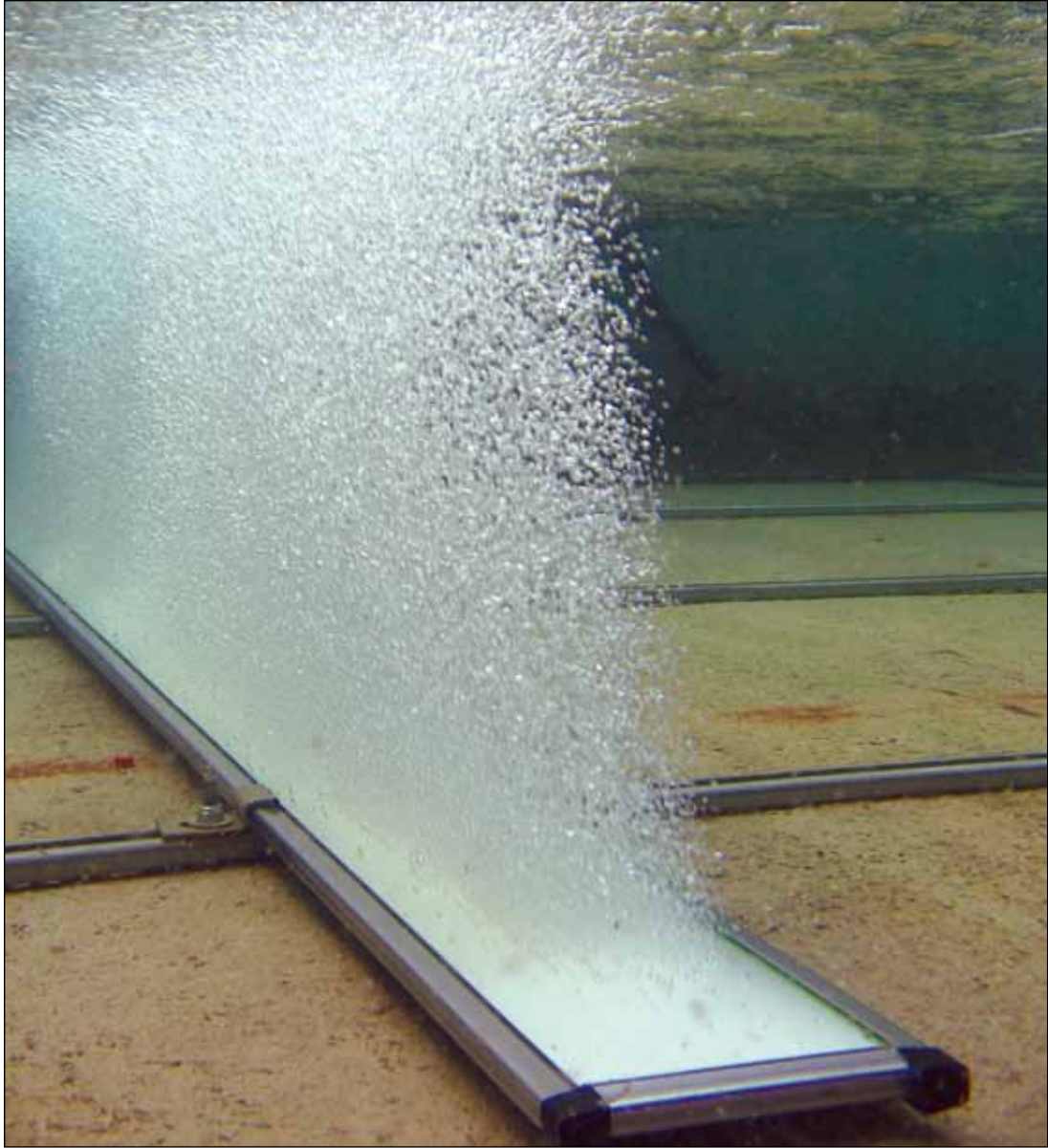


### 7. Manifold Type G



### 8. Manifold for liftable diffuser groups





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