



AEROSTRIP[®] Diffuser KD 41



Danish Wastewater
Equipment

AEROSTRIP® Diffuser Model KD 41

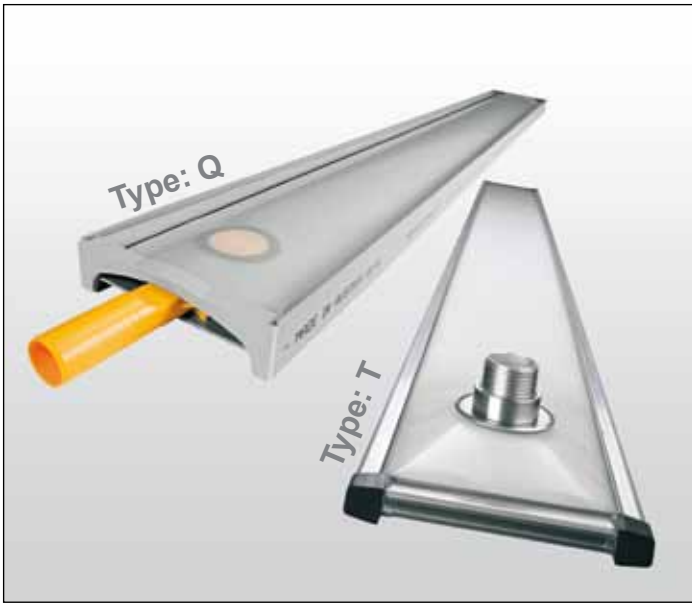
The diffuser is a quality product, developed by an Austrian company in 1995.

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

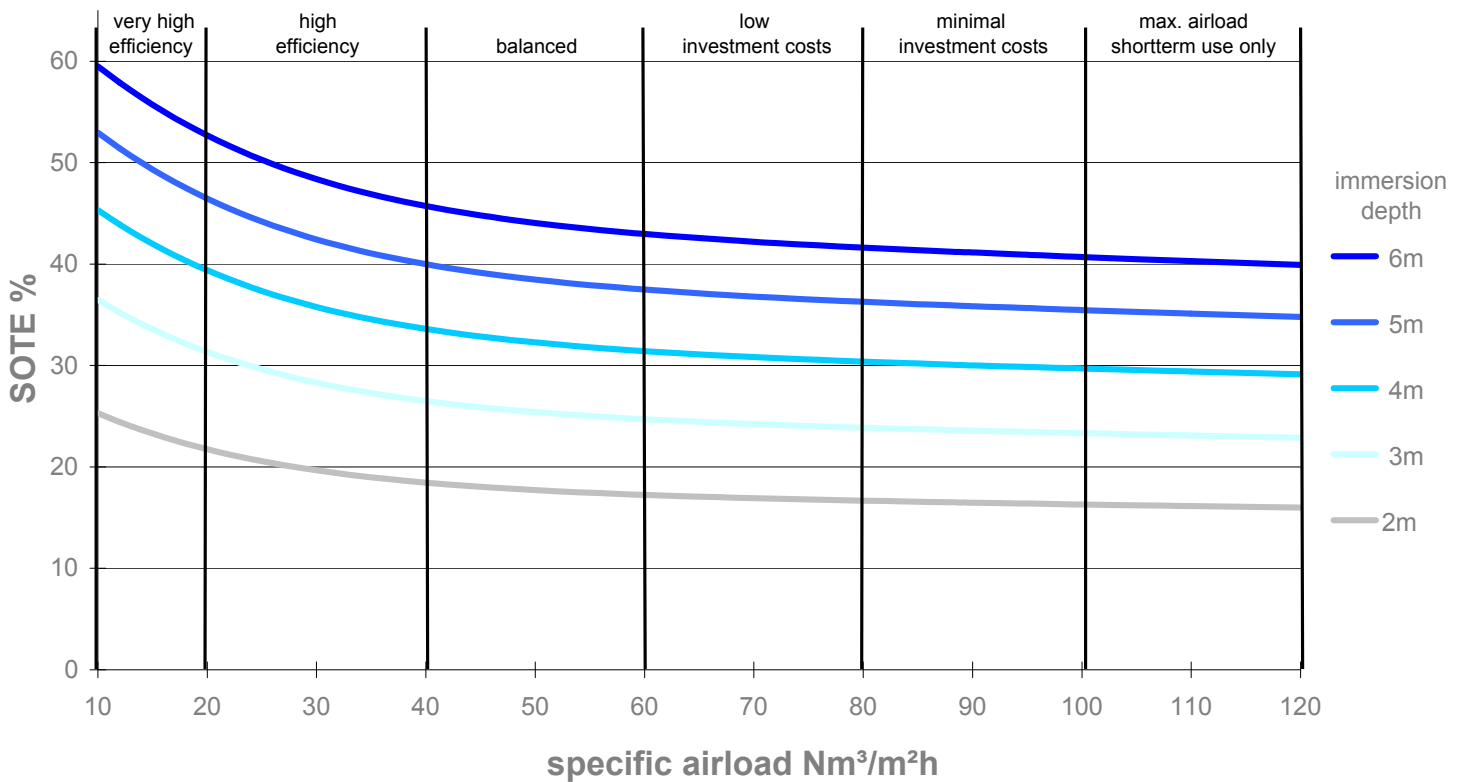
Facts about AEROSTRIP®:

- Oxygen transfer efficiency of up to 60%.
- Competitive performance through optimal aeration efficiency value, aeration efficiency of up to 5~6 kg O₂/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.

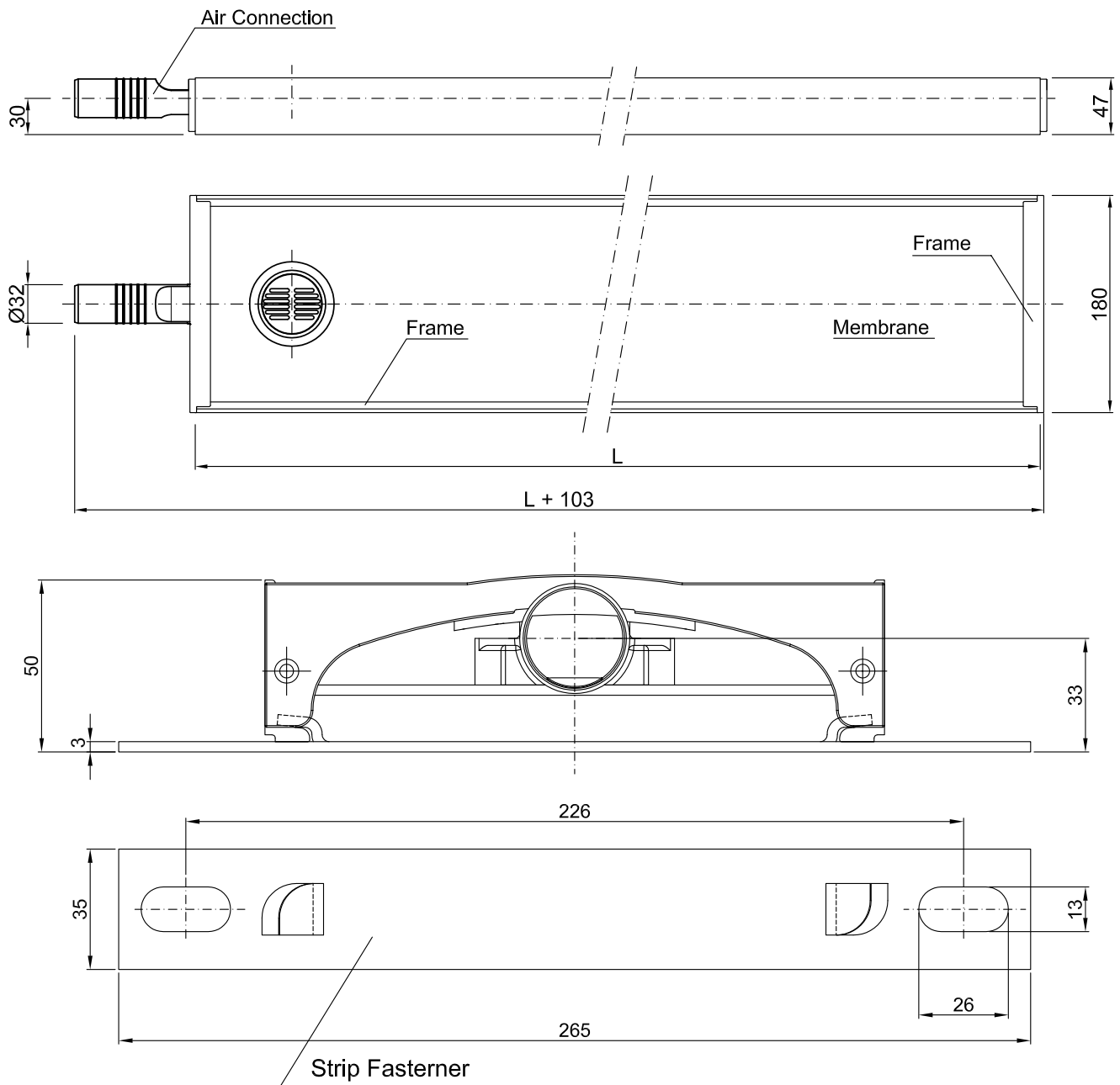




Standard Oxygen Transfer Efficiency [%]



AEROSTRIP® Diffuser Type Q



| Type | L mm | Diffuser Area m ² | Weight kg | Max airrate Nm ³ /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 |

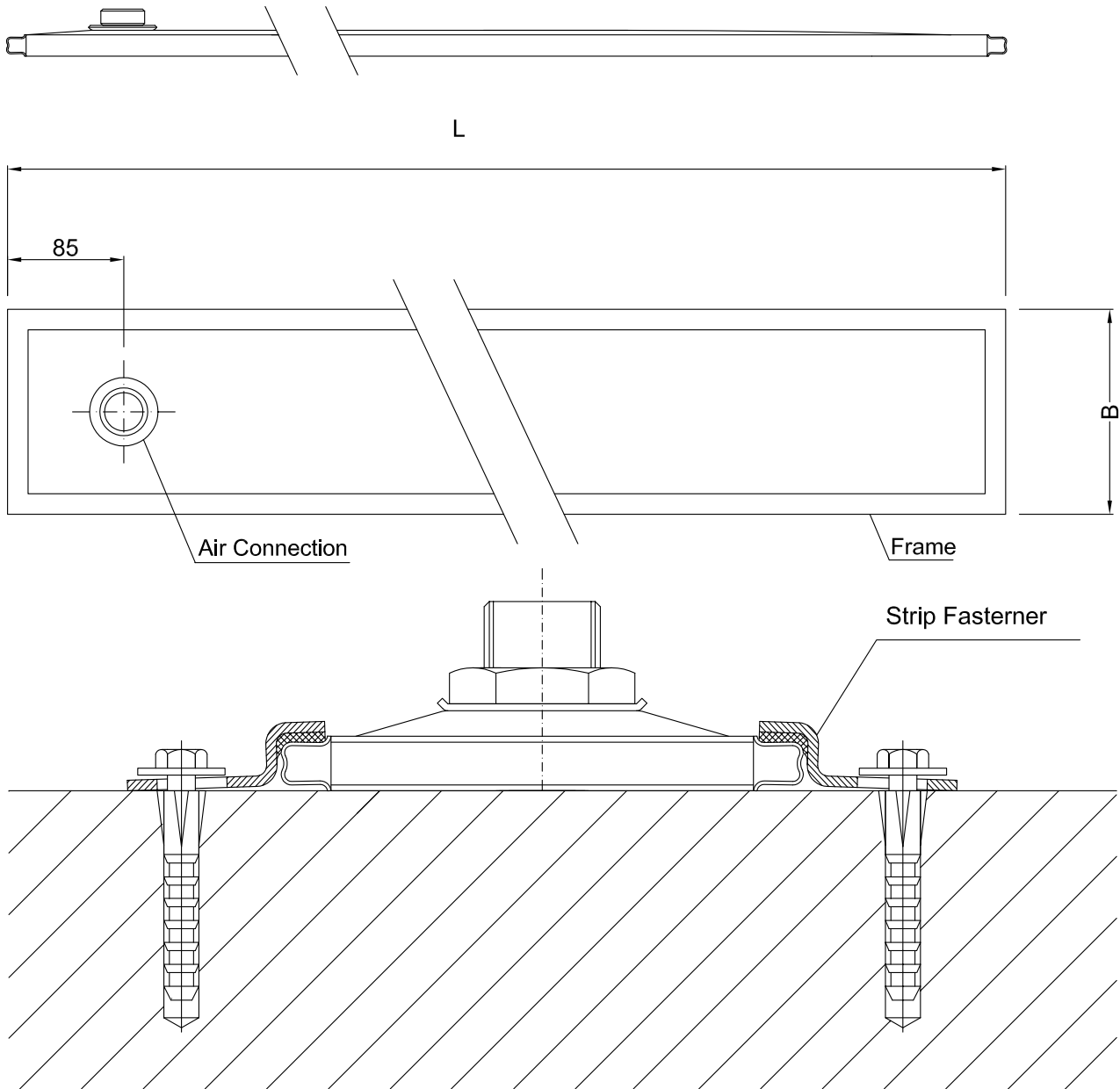
*Special length on request

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 Nm³/h.m² resp. 60 Nm³/ h.m² for race tracks with mixers.

AEROSTRIP® Diffuser Type T



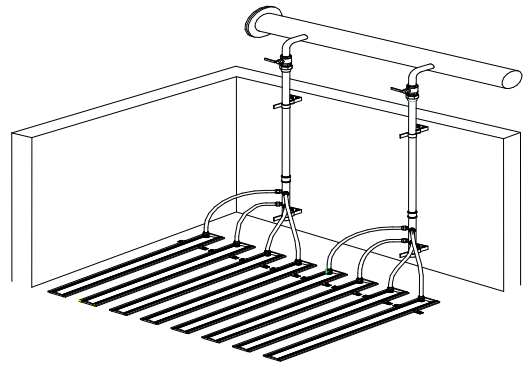
| Type T | L mm | Membrane | B mm | Diffuser area m ² | Weight kg | Max air rate Nm ³ /h |
|------------|------|----------|------|------------------------------|-----------|---------------------------------|
| T2,0-EU-15 | 2008 | EU | 150 | 0,290 | ca. 5,3 | 23 |
| T2,5-EU-15 | 2508 | EU | 150 | 0,363 | 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"
 Hexagon Nut: Stainless Steel (316)
 Sealing : SBR

Mounting options

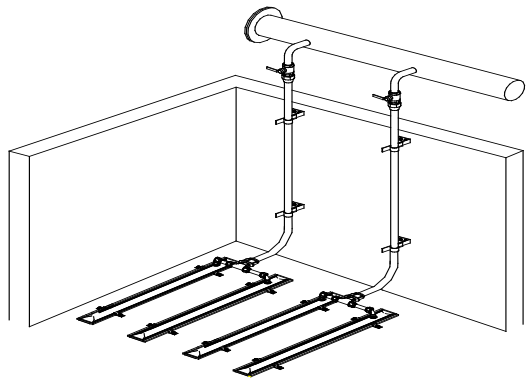
1. Air distributor Type A



2. Air distributor Type B



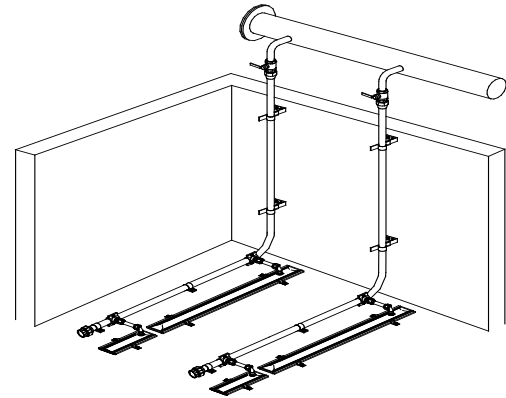
Tee piece



3. Air distributor Type C



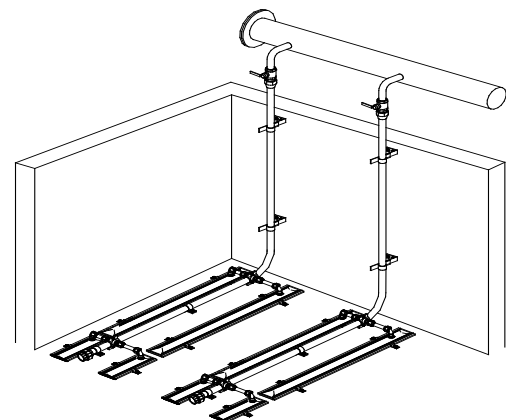
Clamp saddle



4. Air distributor Type C



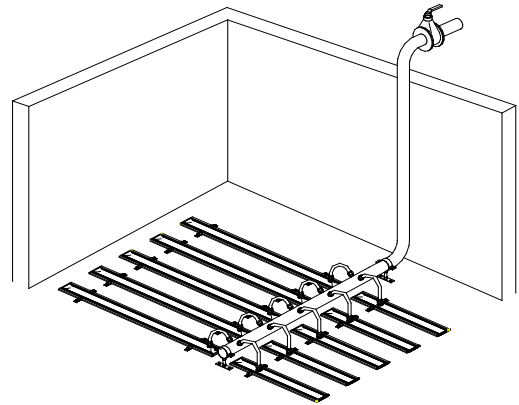
Double clamp saddle



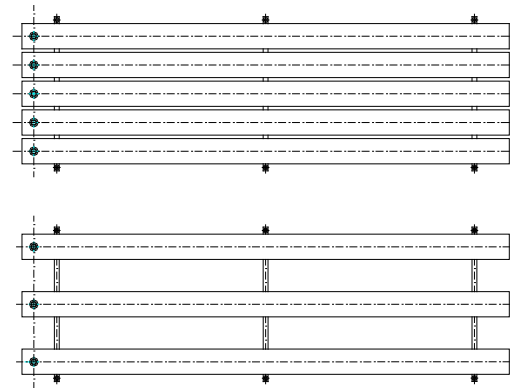
5. Air Distributor Type D



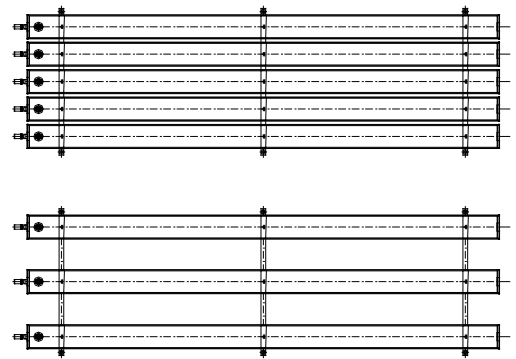
Central air supply



6. Manifold Type E



7. Manifold Type G



8. Manifold for liftable diffuser groups

