

DZD 35/4 B Ex e

Roof fans for potentially explosive atmospheres

With cross-ventilation, the supply air flows through the entire room before being extracted.

Blow in the supply air near the ceiling, parallel to the ceiling. The induction effect distributes the supply air throughout the room.

Extract exhaust air near the floor, since most combustible gases and vapours are heavier than air (except hydrogen), which collects under the ceiling

In the application shown above, the supply air is blown into the room, parallel to the ceiling. As the supply air crosses the room, it mixes well with the air already present in the room.

It is then extracted either directly at the workplace, in a dangerous material cabinet with ventilation connected up directly or generally using exhaust air fans or exhaust air openings near the floor.

- ① DZD ... roof fan Ex
- ② Air flow with cross-ventilation
- ③ Explosive atmosphere
- ④ DZR ... duct fan Ex
- ⑤ ERM ... duct fan Ex
- ① DZD-Ex axial roof fan
- ② SDS pitched roof socket

Tiled roofs

■ The SDS pitched roof socket is manufactured specifically for installation on tiled roofs.

■ When ordering, the type of roof tiles and the roof pitch must be known.

- ① DZD-Ex axial roof fan
- ② SOWT corrugated and trapezoidal roof socket
- ③ Roof integration, provided by the customer

Trapezoidal roof mounting

■ The SOWT corrugated and trapezoidal roof socket is suitable for all trapezoidal and corrugated roof shapes.

■ The appropriate roof profile shape is incorporated on site.

- ① DZD-Ex axial roof fan
- ② SD socket sound absorber
- ③ Roof integration, provided by the customer
- ④ Transition piece, provided by the customer
- ⑤ ELA-Ex flexible coupling
- ⑥ Ventilation duct, to be provided by the customer

Flat roof installation

■ For DZD-Ex fans, the use of an SD socket sound absorber is recommended.

■ The SD socket sound absorber provides noise attenuation on the intake side.