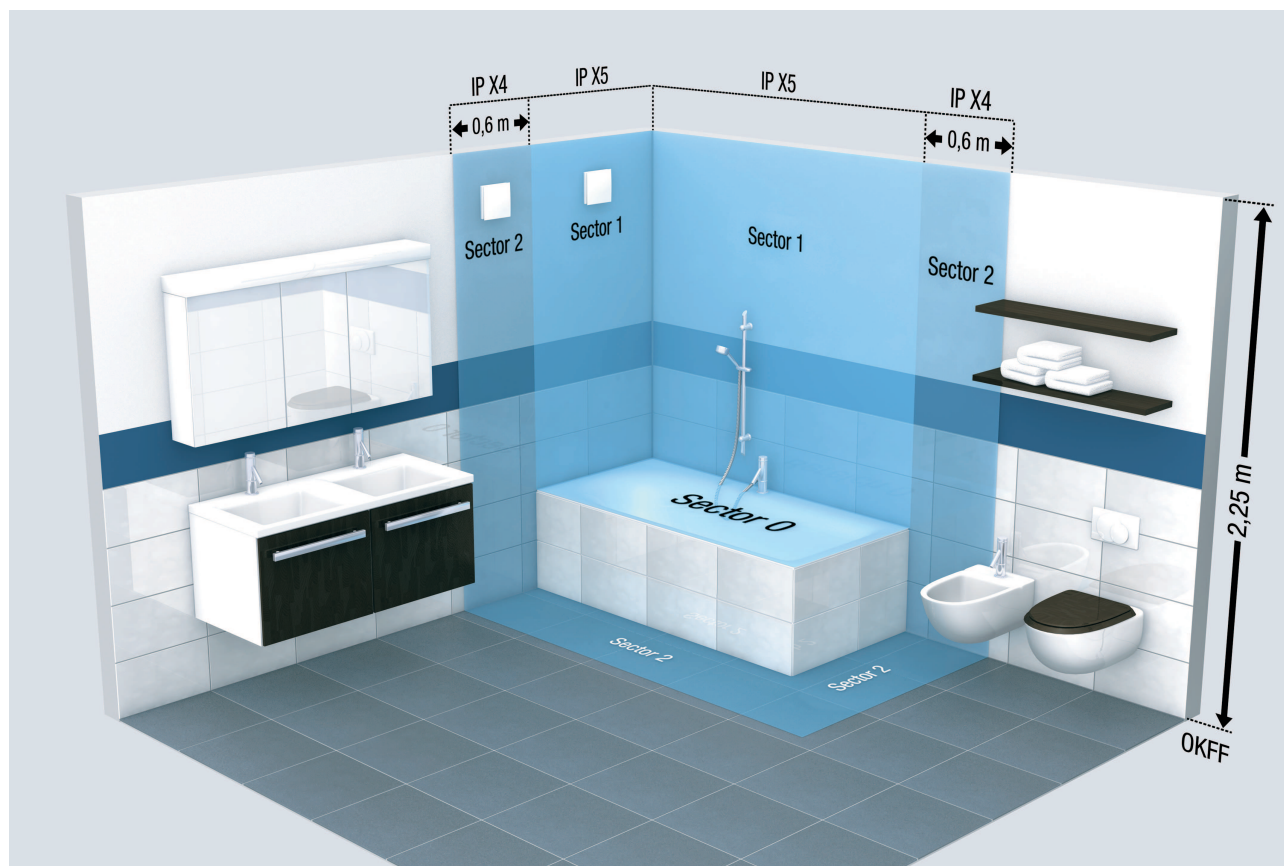


ECA 11 E

Distances to be maintained - protection areas in bathrooms in accordance with DIN VDE 0100- 701

- Bathrooms are divided into 3 areas, in which different requirements apply to the degree of protection required for the electrical equipment.
- If water jets occur in area 1 and 2, select units with an IP X5 degree of protection.
- Depending on the degree of protection of the ECA product selected (see Technical data product page), the required distances to the shower/bath area will differ. The following diagram outlines the corresponding distances.

Sector	Permitted voltage	IP-degree of protection for current-using equipment
0	AC 12 V or DC 30 V	IP X7
1	230 V (fans)	IP X5
2	230 V	IP X4, (IP X5 if there is a risk of water jets)



Installation requirements for duct installation

- For rooms up to 30 m² room area, depending on the nominal size of the fan.
- Duct length up to approx. 5 m, 2 elbows (not with ECA piano).
- Maximum one room connection per duct.

ECA 11 E

Installation requirements for shaft mounting.

- For rooms up to 30 m² room area, depending on the nominal size of the fan.
- Length up to approx. 5 m, 2 elbows (not with ECA piano).
- Maximum one room connection per shaft.

Air intake

- Supply air intake within the living unit: The domestic air supply must be set up so that virtually no air can flow into the living areas from the kitchen, bathroom and WC. A room from which the air has to be extracted must be fitted with a non-closable, free supply air cross section, therefore install, e.g. an MLK door ventilation grille.
- ECA fans in domestic units with air-ventilated fireplaces, e.g. in rooms with open chimneys or stoves: The ECA fans are only allowed to be operated when there is a sufficient inflow of external air into the living area. Please contact the chimney sweep for this.

Condensation

- The duct must be fitted with thermal insulation in order to provide protection against condensation, e.g. ducts in unheated areas.
- In the case of vertically installed ducts, install a condensation connection with a siphon and connect it to the building's drainage system.

Important notes

- Pay attention to DIN VDE 0100, part 701 when installing fans in bathroom or WC areas.
- **ECA fans are not suitable for exhaust air systems that are in accordance with DIN 18017-3.**