

## ER EC 2.1

### Design example for decentralised air extraction in accordance with DIN 18017-3

#### Prerequisite:

- Fans with 60m<sup>3</sup>/h in the connection duct.
- 2 fans per full storey.
- Building with 11 storeys.

#### Procedure:

- In the diagram for 2 fans per storey with 60 m<sup>3</sup>/h each, read "11 storeys" on the y-axis – corresponding main duct diameter 225 mm.

#### ER EC 60 m<sup>3</sup>/h and ER 60 60 m<sup>3</sup>/h, one unit per full storey\*

- ① Number of storeys
- ② Main duct diameter in mm
- ① maximum of 2 elbows

#### ER EC 40 m<sup>3</sup>/h, one unit per full storey\*

- ① Number of storeys
- ② Main duct diameter in mm
- ① maximum of 2 elbows

#### ER EC 60 m<sup>3</sup>/h and ER 60 60 m<sup>3</sup>/h, two units per full storey\*

- ① Number of storeys
- ② Main duct diameter in mm
- ① maximum of 2 elbows

#### ER EC 40 m<sup>3</sup>/h, two units per full storey\*

- ① Number of storeys
- ② Main duct diameter in mm
- ① maximum of 2 elbows

#### ER EC 100 m<sup>3</sup>/h and ER 100 100 m<sup>3</sup>/h, one unit per full storey\*

- ① Number of storeys
- ② Main duct diameter in mm
- ① maximum of 2 elbows

#### ER EC 100 m<sup>3</sup>/h and ER 100 100 m<sup>3</sup>/h, two units per full storey\*

- ① Number of storeys
- ② Main duct diameter in mm
- ① maximum of 2 elbows

\*Design with a coincidence factor of 100 %.

#### Please note:

- The selection diagrams above do not apply to the Centro central air extraction system. Please observe separate planning instructions.
- For increased acoustic requirements, observe flow velocities.