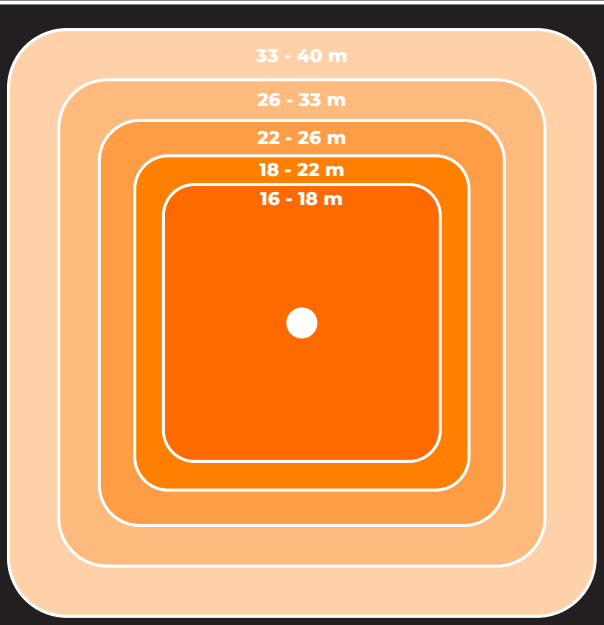
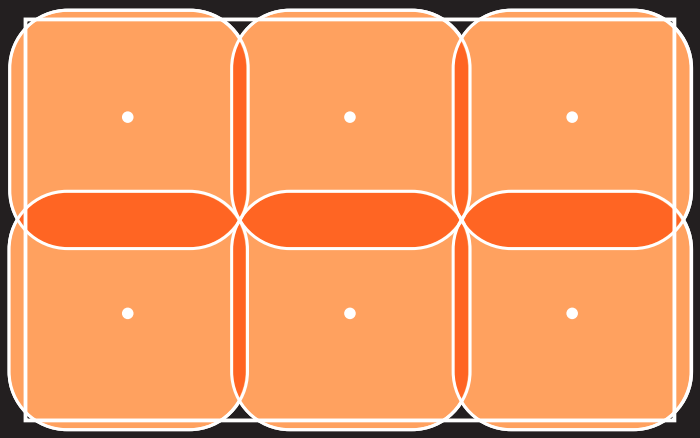
BUILT TO PROTECT

For the calculation of the required quantity of AirDomes assumptions need to be made. Additionally you should know the size of the area to be cleaned as well as the fume-/dust pollution, which determines the required air exchange rate.

Assumption	
Airflow	20.000 m³/h
Height of working area in m	4

Operational area Fume-/ Dust pollution	Air exchange rate From	 to	Cleaning room volume max. From	 to	Cleaning area max. From	 to	Radius around AirDome From	 to
Storage hall	1	1,5	13.333 m³	20.000 m³	3.333 m²	5.000 m²	33 m	40 m
Production hall	1,5	2,5	8.000 m³	13.333 m³	2.000 m²	3.333 m²	26 m	33 m
Light to middle	2,5	3,5	5.714 m³	8.000 m³	1.429 m²	2.000 m²	22 m	26 m
Middle to heavy	3,5	5	4.000 m³	5.714 m³	1.000 m²	1.429 m²	18 m	22 m
Heavy to very heavy	5	7	2.857 m³	4.000 m³	714 m²	1.000 m²	16 m	18 m





Example:

Metal fabrication company with mid to heavy fume- / dust pollution Through welding & grinding

Area of the workshop	30 m x 70 m = 2.100 m²
x height of the area to be cleaned	x 4 m = 8.400 m³
x Air exchange rate	x 4 = 33.600 m³/h
/ Airflow AirDome	/ 20.000 m³/h = 1,7
Result	2 Pce. AirDomes Required

KEMPER