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Questionnaire for design of a smoke extract installation based on jet fans in car park systems

- Basic data for a Computational Fluid Dynamics Simulation (CFD) -

The questionnaire hereafter is made for preparing a system for smoke extraction and ventilation based on jet fans. These key information are necessary for achieving fast and efficient results in the estimation phase. Please reply to all relevant questions and mail the filled-in form back to us. For further questions or additional feed back please contact us by phone.

Project:

Company:	Designation:		
Person to be contacted:	Place:		
Phone: Fax:	Consultant / Contractor:		
Email:	Project phase		
I. Building and use of the car park:			
What type of works are under planning?	□ New building □ Conversion □ Extension □		
2. Where is he building and the car park situated ?	☐ City centre ☐ outside centre ☐ Industrial area ☐ housing area ☐		
3. Car park size:	□ small up to app. 100 m ² □ Medium up to app. 1.000 m ² □ Large more than 1.000 m ² □		
	Number of decks:		
4. Geometric building data (please join a plan)	Length (m): Width (m):		
	Nett volume space per deck (m³)		
	Minimum driving through height (m):		
	Dimensions of the columns:		
	Are separation walls for smoke sections provided ?		
	Size of smoke sections (m²):		
5. Has the size and position of the exhaust chimney been projected ?	☐ Yes ☐ No		
	Are there no restrictions for design of exhaust chimney ? $\hfill \square$ Yes $\hfill \square$ No		
II. Use of the car park:			
What type of car park is considered ?	□ Residential □ public services □ Office □ cinema □ Shopping centre □		
2. Number of cars admitted as a maximum per deck:			
3. Type of vehicles admitted :	□ cars only □ also vans and similar □		

Gebhardt Ventilatoren

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III. Ventilation and smoke fighting parameters:		
	D Ver (electricity to install	D. No (continue manting 0)
Is there already an expert's assessment of layout available?	Yes (please join to inquiry)	□ No (continue question 2)
How do you want the design of smoke extract installation to be made?	 □ according to car park guide lines □ Have special local prescriptions 	□ acc. to individual requirements (please indicate)
	to be respected?	
Use of the jet fan ventilation installation:	□ smoke extraction only	☐ Smoke extract and CO-control
4. CO-Control:	□ automatically	□ by timer
5. Flow rates:	for mechanical ventilation:	☐ m ³ /h per m ² car park surface
5. 16. 1des.	for smoke extraction:	-times air changes
Which kind of air intake has been provided ?	□ Natural intake as ?	
·	(e.g., windows, Car entry/exit, Light- chimney, etc.)	
		Number of intake openings: units. (please indicate position of openings in the drawings)
		dimensions of openings: L/W/H
	☐ Mechanical air intake: (Please complete data →)	Flow rate m³/h
	(r lease complete data 7)	Number of air intakes: units. (please indicate position of openings in the drawings)
		dimensions of openings: L/W/H
		Flow velocity: m/S
7. Is the control system designed for controlling other units or systems?	□ Control ventilation (On/off)□ Other systems (if yes specify) ?	□ Doors
IV. Access points to car park:		
1. How openings and stair cases are kept smoke free ?	□ Positive pressure system	o
	-	o
2. Are escape tunnels with positive pressure ventilation provided ?	☐ yes (Please join relevant data)	□ no
V. Remarks:		
Date: Made by:		
<u>Made by.</u>		

