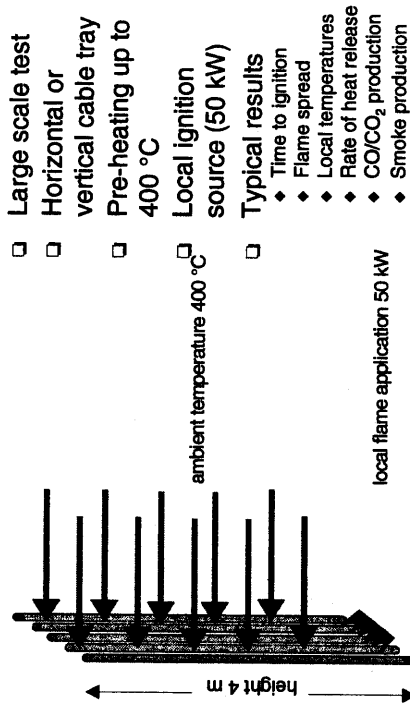


### Foreseen German Real Scale Cable Fire And Functional Failure Tests

M. Roewekamp (GRS)  
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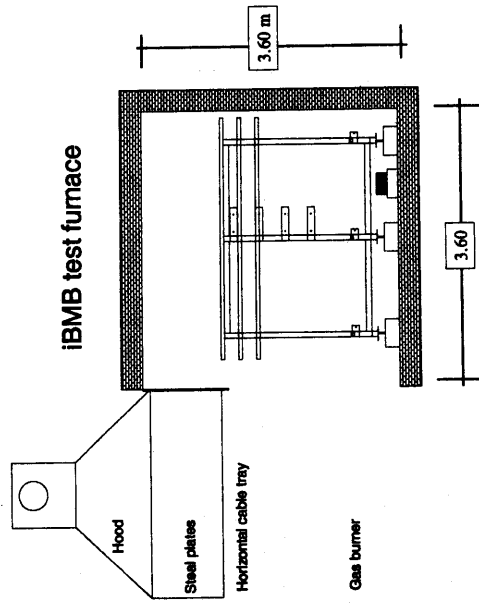
### Cable Tests Equipment

**IBMB**

- iBMB test furnace
  - ◆ Vertical
  - ◆ Horizontal
- Smoke density measurement
- Function loss test equipment according to DIN 4102-12
- Gas analysis equipment O<sub>2</sub>, CO, CO<sub>2</sub>
- ➔ Oxygen consumption method for the determination of the heat release

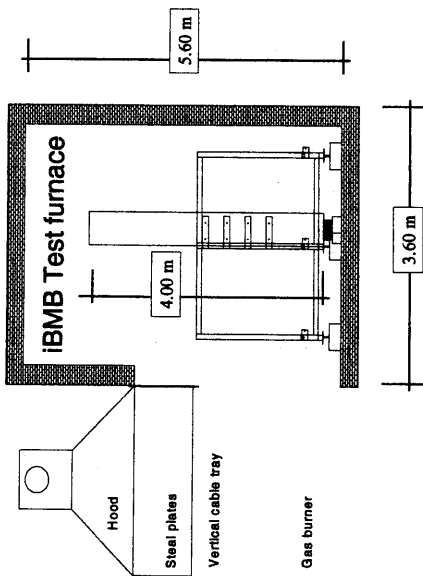
### Cable Fire Tests (horizontal)

**IBMB**



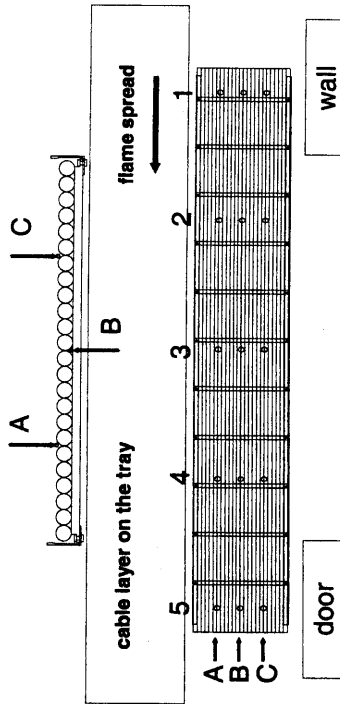
### Cable Fire Tests (vertical)

**IBMB**



### Horizontal / Vertical Cable Tray **IBMB**

- Example of a horizontal cable tray
- Position of thermo-couples



**Cable Fire And Functional Failure Tests** **IBMB**

IBMB Proced.	Gas burner: max. 50 kW / 1 opening 2.6 m <sup>2</sup>			
Heater and ventilation				
Material	PVC	PVC	PVC	PVC
Direction	Horizontal	Horizontal	Vertical	Vertical
Type of cables	Power cables	Signal cables	Power cables	Signal cables
Pre-heating				
Functional test	yes	yes	yes	yes

\*) based on DIN 4102-12  
Test furnace according to IBMB procedure