

# Client - DIFLAGER

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## **Basic information**

Client: Danish Concrete Institution  
Scenario name: DIFLAGER  
Consultant: DIFT  
Reference no.:  
Company type: Industry, plastics  
Basic bldg. construction: Concrete  
Number of rooms: 2  
Last revision: 02-12-2005 15:51:00  
Revision No.: 13

## **Fire brigade**

City area: **x**  
24 hour: **x**  
Distance/fire station [km]: 5  
Calculated response time [min]: 9

## **Room Concrete hall**

Room use: Raw materials store  
Room area [m2]: 600  
Average height [m]: 5.99  
Max. distance [m]: 30  
Floor type: Concrete, DS411 (var), 15 cm (Floor)

### **Wall towards Surroundings**

**Base wall: Concrete, Eurocode (Si), 15 cm**

Length [m]: 80

#### **Wall part: Roll-up door**

Type:	Door	Width [m]:	6
No. of part:	1	Height [m]:	5
Cv:	0.7	Height. above floor [m]:	0
S-Door:	-		

#### **Wall part: Single glass window**

Type:	Window	Width [m]:	0.8
No. of part:	10	Height [m]:	1.2
Cv:	0.7	Height. above floor [m]:	1.2
S-Door:	-		

### **Wall towards Steel plate hall**

**Base wall: Concrete, DS411 (const), 15 cm (Wall)**

Length [m]: 20

**Wall part: EI 60 (60 minutes FR door)**

Type:	Door	Width [m]:	4
No. of part:	1	Height [m]:	3
Cv:	0.7	Height. above floor [m]:	0
S-Door:	-		

**Ceiling**

**Base ceiling: Concrete, Eurocode (Ca), 15 cm (Ceiling)**

**Smoke venting, heat detector:**

**70/100**

Activation temperature [°C]:	70
RTI [(m*sek)^0.5]:	100
C [(m/s)^1/2]	1
Distance between detectors [m]:	4
Distance from detector to fire [m]:	2.83
Average height above floor [m]:	6
Type of ventilation:	Natural
Opening area [m²]:	18
Cv:	0.7
Aerodynamic free area [m²]:	12.6
Natural vent. opening delay [s]:	0

**AFA, smoke detector:**

**Smoke detector (0,3)**

Smoke sensitivity [dB/m]:	0.3
Distance between detectors [m]:	7
Distance from detector to fire [m]:	4.95

**Room Steel plate hall**

Room use:	Raw materials store
Room area [m2]:	600
Average height [m]:	5.99
Max. distance [m]:	30
Floor type:	Concrete, DS411 (var), 15 cm (Floor)

**Wall towards Surroundings**

**Base wall: Steel-plate wall, 50 mm isol.**

Length [m]: 80

**Wall part: Roll-up door**

Type:	Door	Width [m]:	6
No. of part:	1	Height [m]:	5
Cv:	0.7	Height. above floor [m]:	0
S-Door:	-		

**Wall part: Single glass window**

Type:	Window	Width [m]:	0.8
No. of part:	10	Height [m]:	1.2
Cv:	0.7	Height. above floor [m]:	1.2
S-Door:	-		

**Wall towards Concrete hall**

**Base wall: Concrete, DS411 (const), 15 cm (Wall)**

Length [m]: 20

**Wall part: EI 60 (60 minutes FR door)**

Type:	Door	Width [m]:	4
No. of part:	1	Height [m]:	3
Cv:	0.7	Height. above floor [m]:	0
S-Door:	-		

**Ceiling**

**Base ceiling: Steel + mineral wool, 50 mm**

**Smoke venting, heat detector:**

**70/100**

Activation temperature [°C]:	70
RTI [(m*sek) <sup>0.5</sup> ]:	100
C [(m/s) <sup>1/2</sup> ]:	1
Distance between detectors [m]:	4
Distance from detector to fire [m]:	2.83
Average height above floor [m]:	5.99
Type of ventilation:	Natural
Opening area [m <sup>2</sup> ]:	18
Cv:	0.7
Aerodynamic free area [m <sup>2</sup> ]:	12.6
Natural vent. opening delay [s]:	0

**AFA, smoke detector:**

**Smoke detector (0,3)**

Smoke sensitivity [dB/m]:	0.3
Distance between detectors [m]:	7
Distance from detector to fire [m]:	4.95