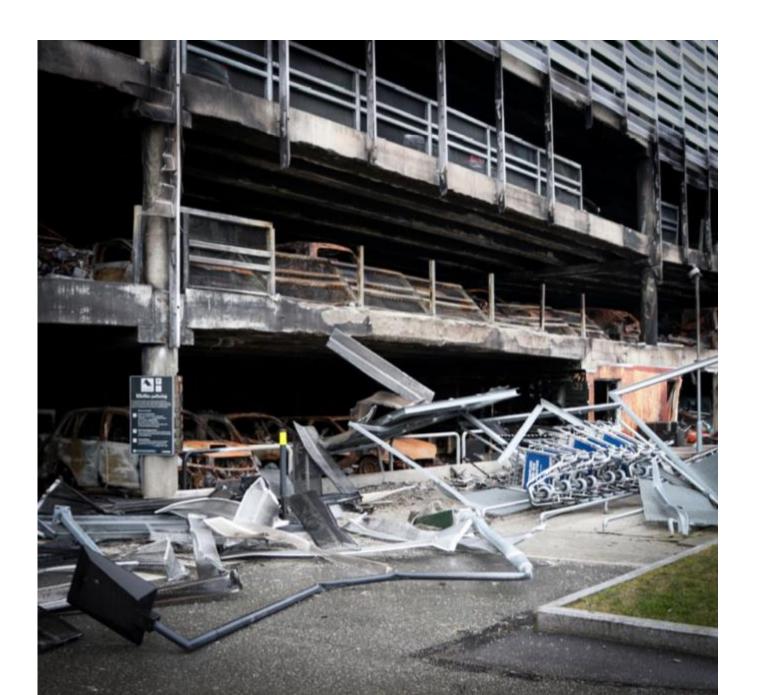
# The fire at Stavanger Airport

January 7th 2020.



## Parking house for 3000 cars

When the fire started it was 1600 cars in the building.

18 500 m2 – 5 floors.

# **Building regulations**

The building must resist fire for 15 minutes.

No demand for automatic fire alarm.

No demand for extinguishing system.

No demand for fire walls.

#### Risk analyze

Risk analyses had been done and the building was allowed to resist fire for 10 minutes.

# Stavanger Airport, Sola

The Airport is cat.7/9 and is Norway's oldest airport. From 1937.

ARFF Service 3 Panthers 6 x 6.



## Rogaland Fire & Rescue IKS

The firebrigade consists of: The cities
Stavanger and Sandnes +
Municipality Sola (Airport) + 6 other
municipalities.

## Rogaland Fire & Rescue

440 employees.

15 fire stations.

(3 manned 24/7 + the rest part time)

#### Start of fire

January 7th 2020 15:25

# Alarm central Rogaland

Alarm was received 18:33 8 min. after the fire started. Fire in a car.

# Alarm at the airport

ARFF received fire alarm earlier than Alarm central Rogaland.

## ARFF Respond to the fire

They sent at once 1 fire vehicle and 1 fire fighter.

Some minutes later one more FF.

# Pri 1 - Airplanes

ARFF still had fire vehicles in fire station for responding to airplane fires.

#### **ARFF Stavanger Airport**

Building fires.

ARFF respond, but do not go into the building. They do not have Breathing Apparatus personell.

# ARFF respond to buildings and then alarm municipal Fire Brigade



# The fire started in an Opel Zafira

Parked on ground floor
IT WAS NOT AN ELECTRIC CAR.

# ARFF tried to extinguish the fire

With fire extinguisher/fire blanket
Monitor could not be used because
of danger to persons in the parking
house.

#### Rogaland Fire & Rescue

Arrived the airport 15:53

The fire concept for the building assumed they would arrive after 10 min. (20 min.)

# The airport is closed 16:15

ARFF then respond to the fire scene with all the airport fire vehicles.

The monitors is now used.

#### Rogaland Fire & Rescue

Fire fighters with BA respond to the fire when they arrived.

The fire spread very fast and they have to return.

# Fire spread very fast.

Because of very heavy wind. 19 m/sec.

And running fuel from the cars. Very fast fire in many cars.

# Building collapsed.

The parking house collapsed 30 min. after the BA fire fighters had to return.

# The heavy wind was a problem.

But it was also good for blowing out the fire gases.

#### Evacuation.

The main problem with the heavy wind was after some time that it sent the smoke towards the hotel.

This had to be evacuated.

#### The fire under control 01:00

The Airport opens and the first flight from the airport is 06:00

#### **Environment**

Future problems?

#### Foam used in the fire

3 900 l. Rehealing Foam – Solberg. 760 l. Moussol FF – Sthamer.

#### Mix Foam 3% - Water 97%

More than 150 000 I water/foam into the ground around the airport.

#### The foam was fluor free.

But all FF Foam has a small part of fluor components.

# Thank you for listening.