

2023. 09. 6-7.

# XII. Lakiteleki Tűzvédelmi Szakmai Napok



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Low pressure water mist system  
efficiency based on fire experiences.



Presenter:  
Gniewosz Siemiątkowski

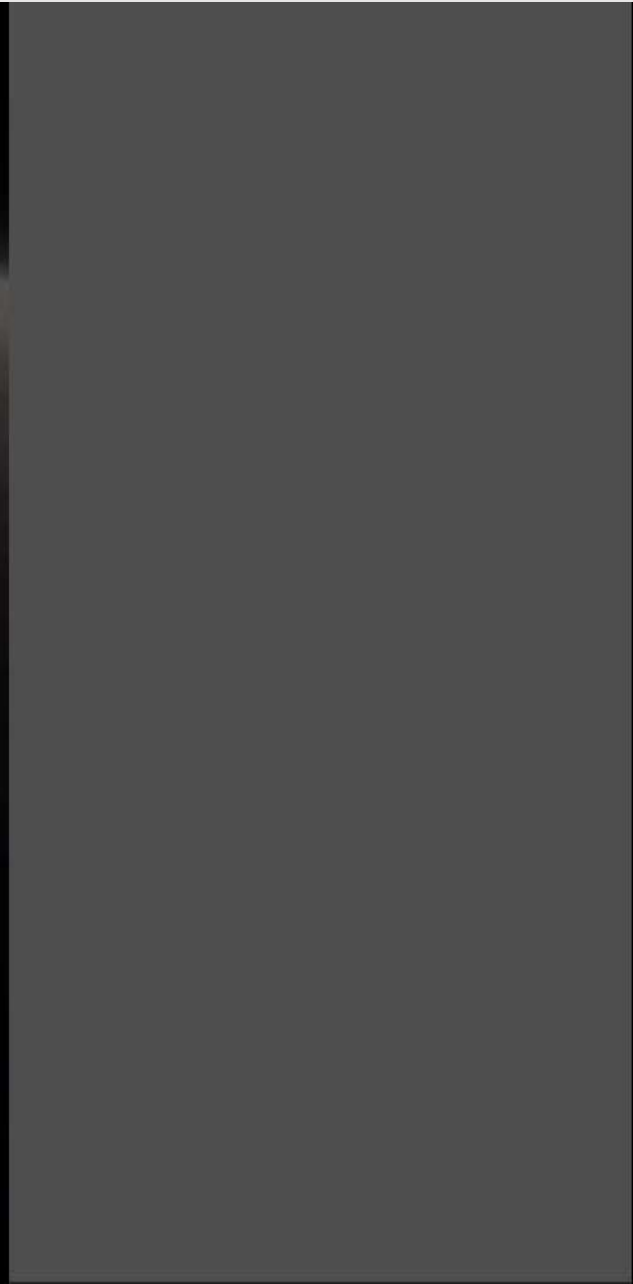
Business Development Manager  
Central and East Europe



# VID Fire-Kill - a leading low pressure Watermist manufacturer



- Is an ISO9001 accredited R&D, Production and Sales company focusing on innovative fire protection solution.
- Is the market leader withing the Low Pressure Watermist technology.
- Headquarter is located in Svendborg, Denmark where all R&D, testing and manufacturing is taking place.
- ~ 50 dedicated employees located in several countries.
- 4-500,000 components (nozzles, valves, pre-fab pipes, filters etc.) are manufactured and sold each year Globally.
- Was founded in 2002 by Mr. Carsten Palle using all is expert knowledge within sprinkler R&D. Since 2012 his son Mr. Alex Palle has been running the company, and the company is still 100% family owned.







# SAINT RONAN'S SCHOOL

UK, Kent

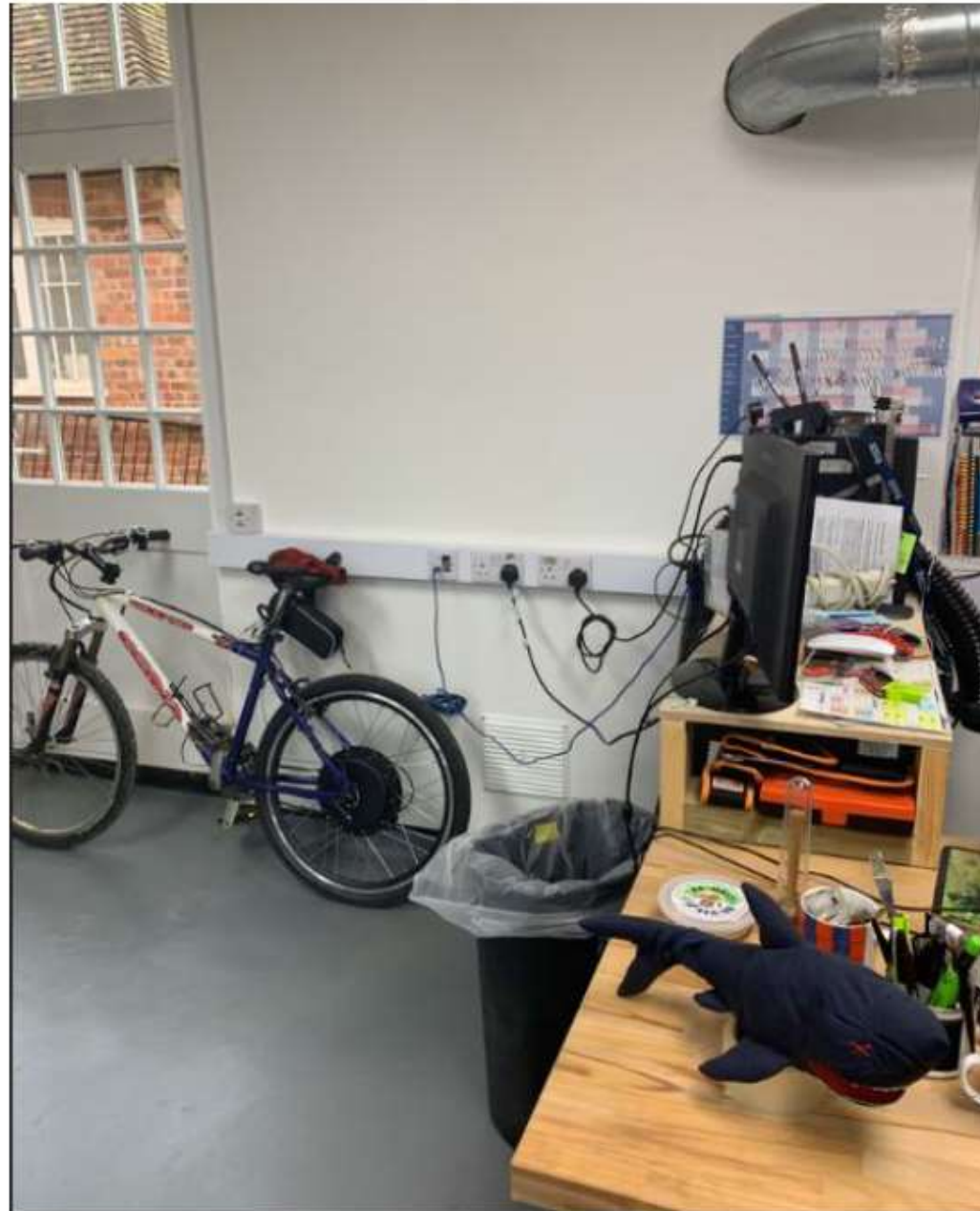


**Potential risks:**

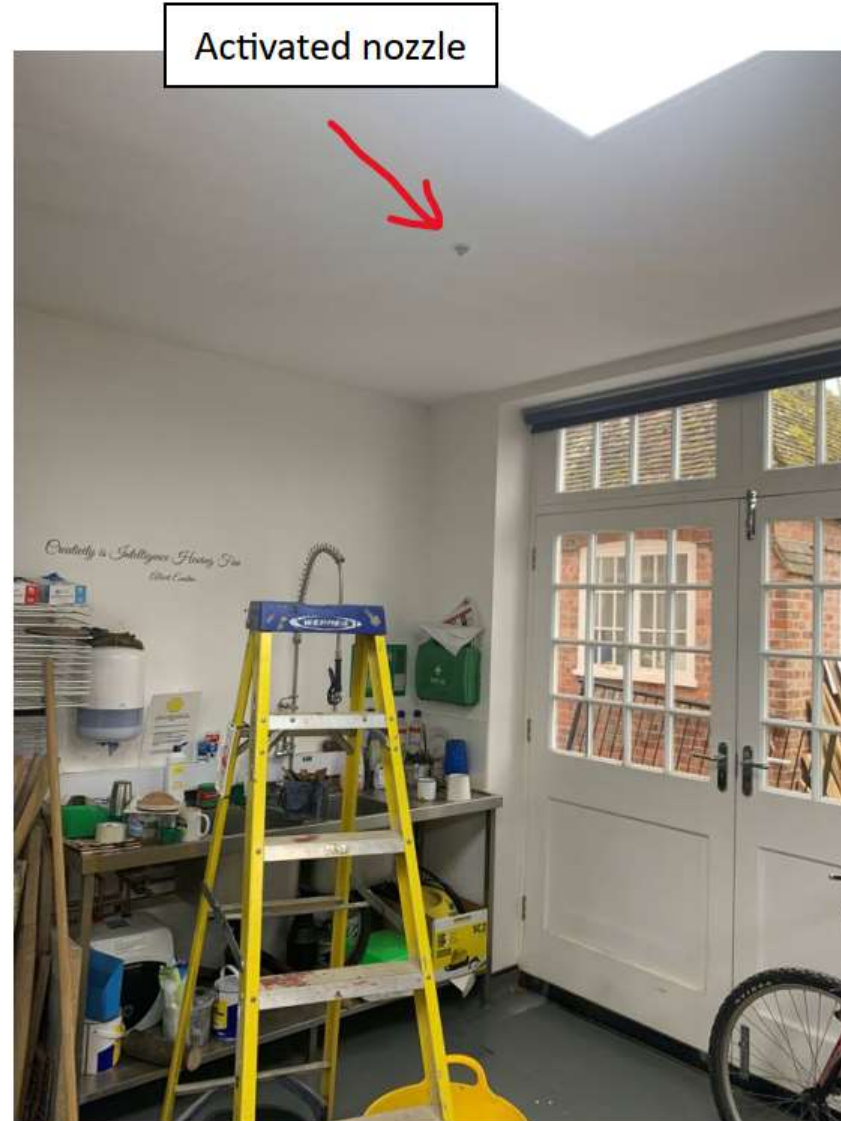
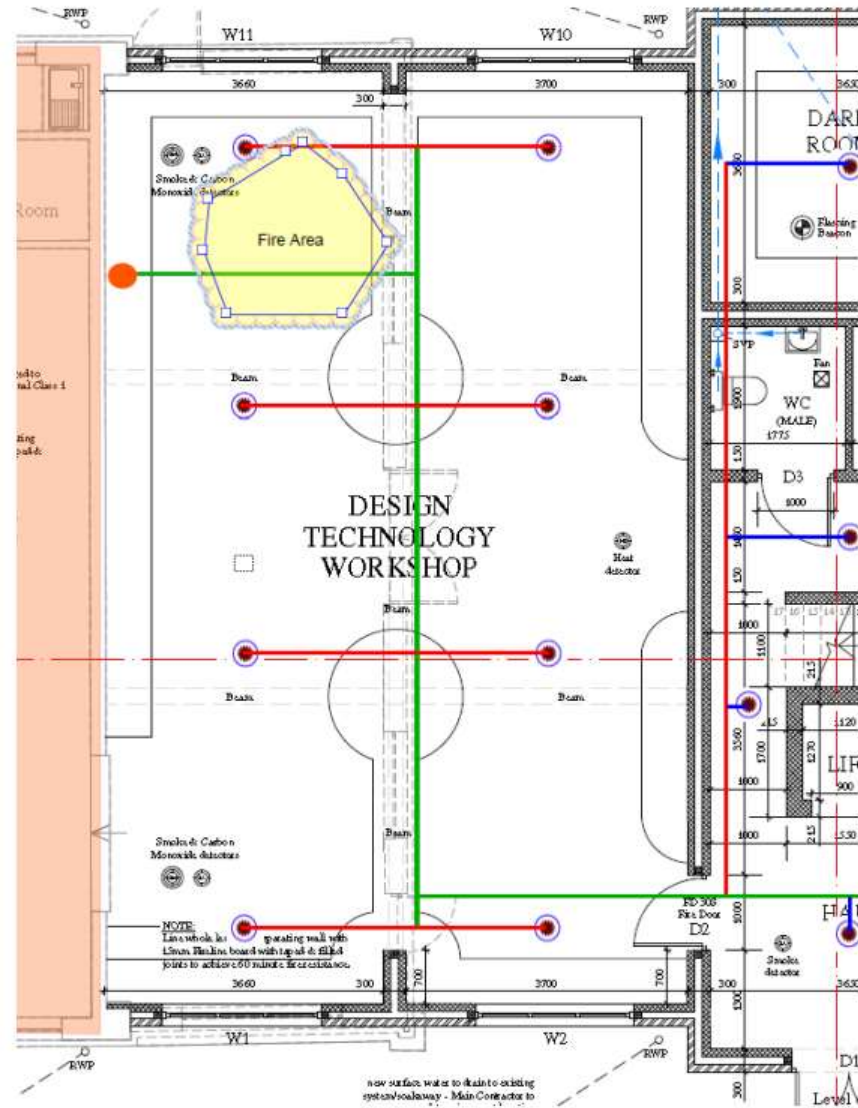
**Public space with 2 big workshops areas**



8th February 2023, late afternoon  
Laser cutting station







Activated nozzle

Photo taken 16 hrs after the fire.

Number of activated nozzles: **1**

Result: **fully extinguished before fire service came on site**

Water flow: **47l/min**

Time to use class room again: **1h**

Refurbishment required: **painting the ceiling due to smoke stains**

# Bio power plant case study



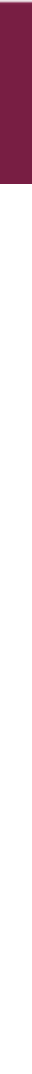


Fibre Storage  
Full LPWM  
Coverage

Process Building  
Full LPWM  
Coverage

Full LPWM  
Coverage

Full HPWM  
Coverage



## The Storage Shed risks:

- *Machinery.*
- *Vehicles.*
- *Loosely piled fibrous product.*
- *Building height.*
- *Varying fibre fuel heights.*
- *Open ended.*

**Dimensions** – Length = 37 m. Width = 10 m. Height = 9 m

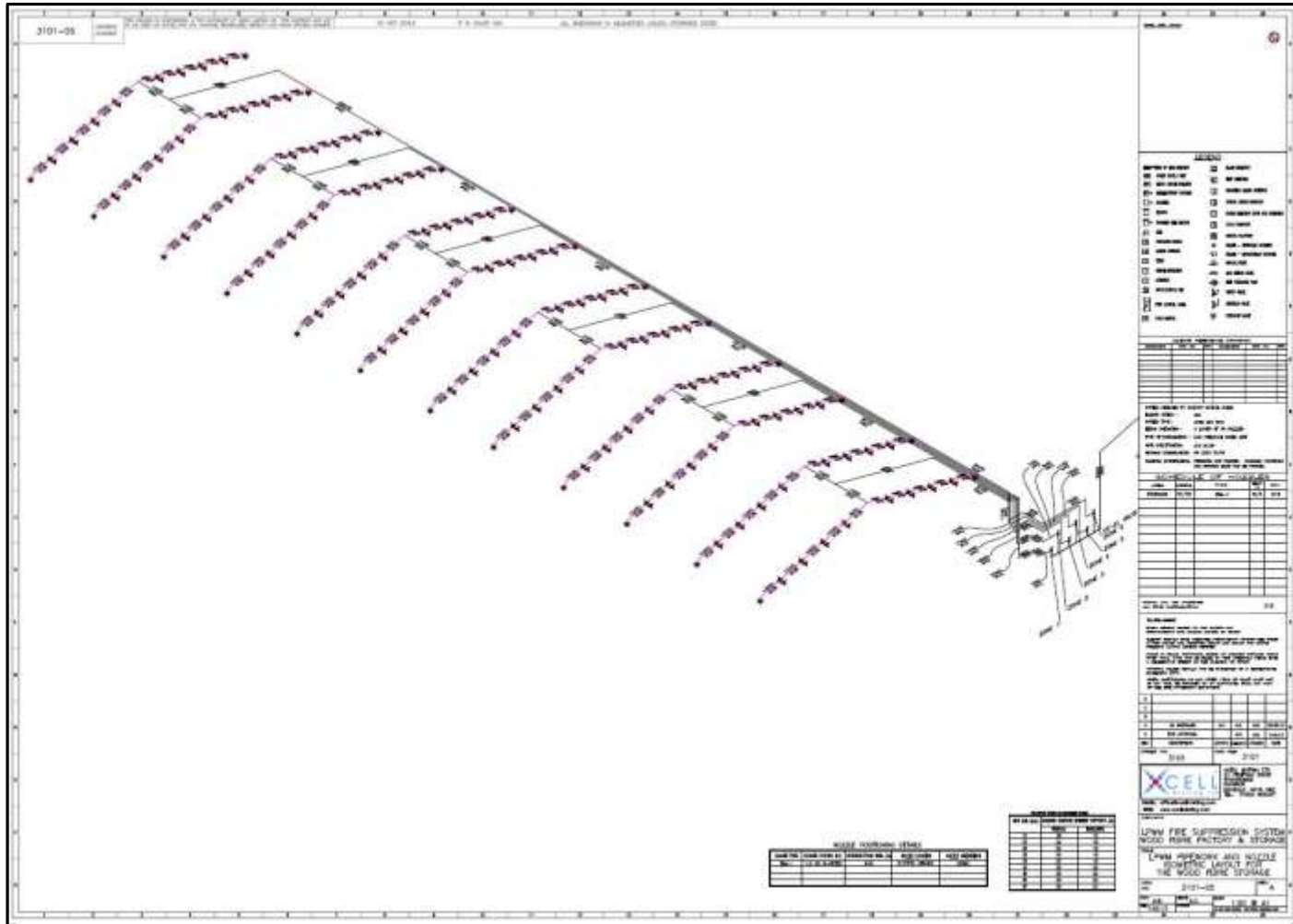
## Installed solution: VID FireKill 2V system for biomass storage areas



Integrated Nozzle and Pipe  
Solution for the Protection of  
Biomass Storage Areas

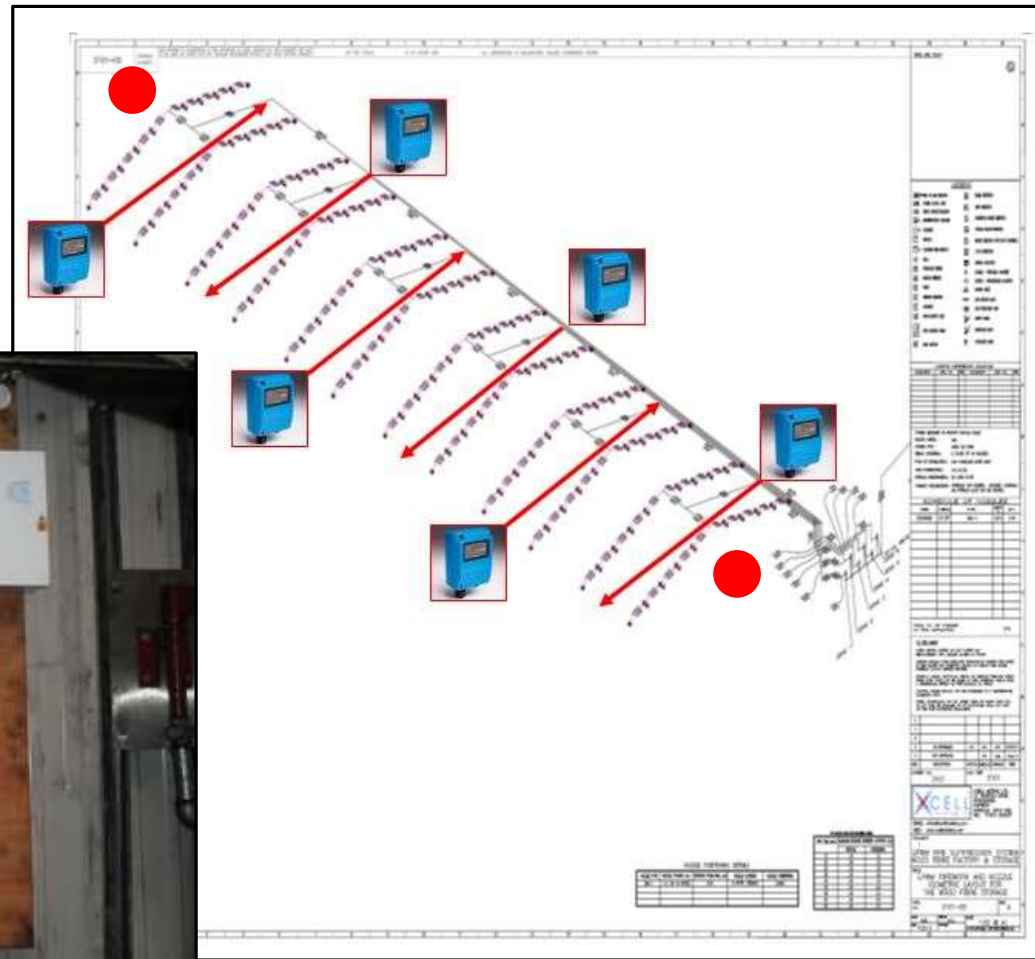
Model N-Pipe Type 2V for  
Biomass Storage Areas

## Installed solution: VID FireKill 2V system for biomass storage areas



## Installed solution: VID FireKill 2V system for biomass storage areas

-  6 x Zone Detectors
- 2 Monitoring



## Installed solution: VID FireKill 2V system for biomass storage areas

6 Zones

3 Operating

203 lpm per zone

4 bar minimum on nozzles

2 x full duty pumps+ jockey





## Fire accident no.1

- A Fire started in the Auger below the ceiling walkway when some bearings overheated and ignited the product on the auger and dropped into the pile.
- The Fire was partially shielded by the walkway.
- The Fire was sensed early by the flame detection.
- The system opens and the fire was extinguished at an early stage.
- The Fire Brigade attended from the monitoring system alert, but no intervention was required as the fire was extinguished.

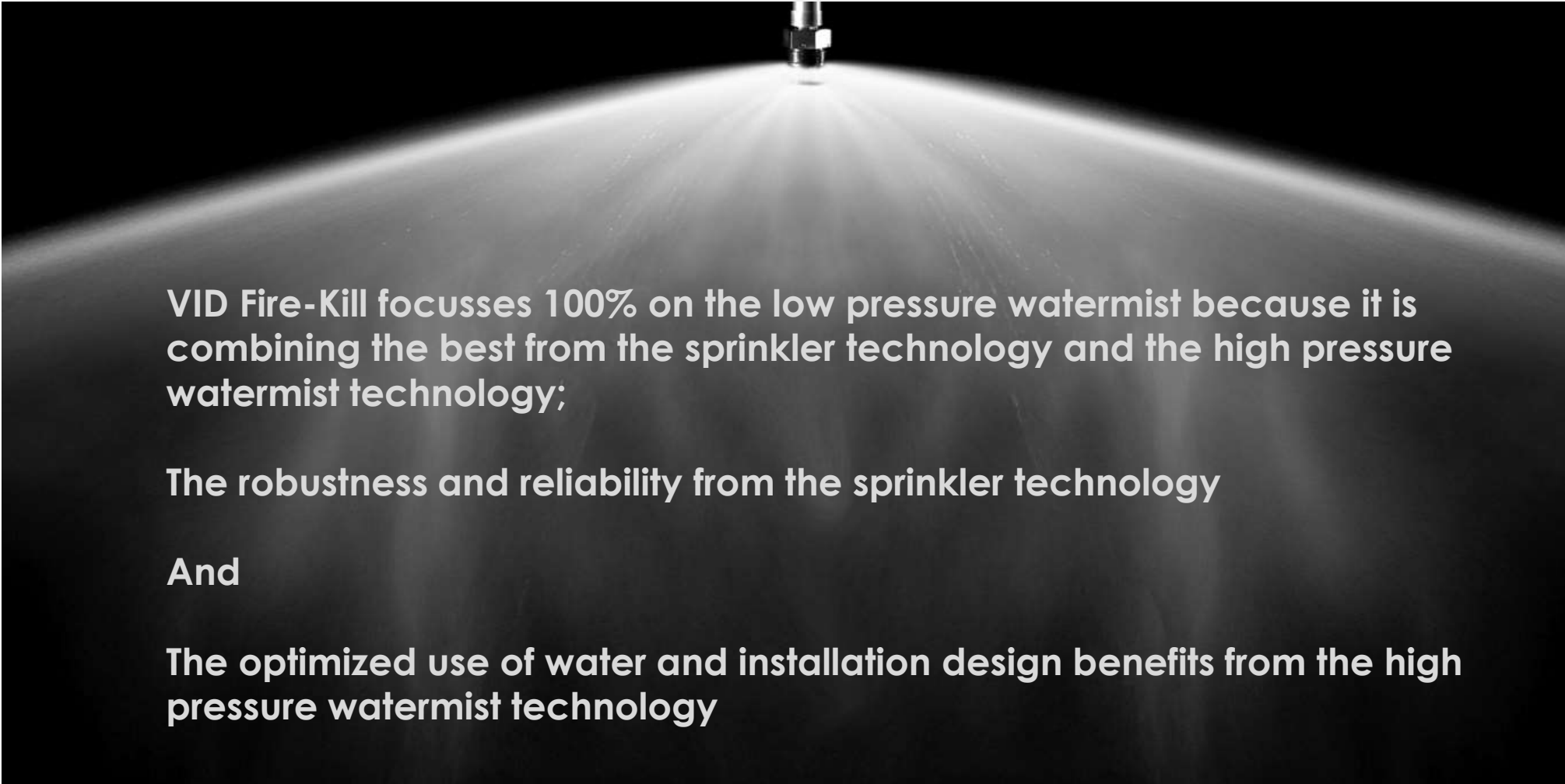


## Fire accident no.2

- Started when a vehicle came into the area and it is suspected the heat, or spark from the vehicle exhaust ignited material underneath the vehicle.
- The Fire was partially shielded by the vehicle.
- The Fire was sensed early by the flame detection.
- The system opens and the fire was extinguished at an early stage.
- The Fire Brigade attended from the monitoring system alert, but no intervention was required as the fire was extinguished.



# Low Pressure Watermist



VID Fire-Kill focusses 100% on the low pressure watermist because it is combining the best from the sprinkler technology and the high pressure watermist technology;

The robustness and reliability from the sprinkler technology

And

The optimized use of water and installation design benefits from the high pressure watermist technology



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**KÖSZÖNÖM, HOGY MEGHALLGATTAK!**