

Van Peperzeel

Location: **Europe** Representative: **FirePro Benelux** Application: **Intermodal Containers** Industry: **Recycling**



The Client

Van Peperzeel is the main sorting and processing centre of used and discarded batteries in the Netherlands. Millions of batteries are collected and processed at its premises each year from where they are later transported throughout Europe for further handling. Van Peperzeel ensures a safe and responsible collection while it helps maximize used battery recycling. What's more, Van Peperzeel offers consultation to other companies and organizations across the EU in regards to end-of-battery-lifecycle management.

The Task

LiBs are growing in appeal for use in military, electric vehicles and aerospace applications. Their growing use however, has brought with it an increase in fire incidents related to current LiB technology. The task therefore, was to design, install and maintain a fast response fire detection and suppression system for the custom-made intermodal means of transportation of used and compromised Lithium-ion batteries. The intermodal fire protection had to be compact, durable and reliable in order to fulfil the application's specific requirements. It should also be designed according to the requirements of BRL-K23001, BRL-K23003 and KIWA declaration of design evaluation P161200382-02 on Lithium-ion Batteries.

FirePro Systems Used

FP-4200

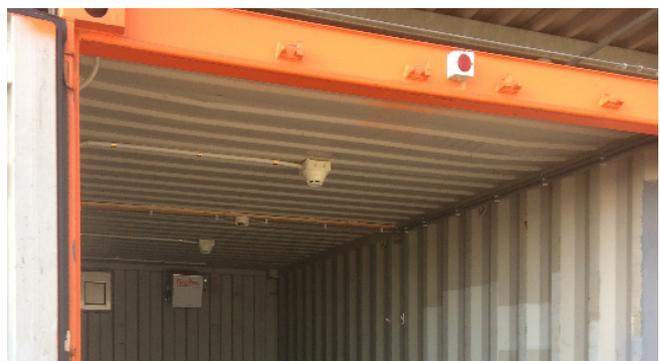
Why FirePro?

The modularity, compactness and autonomy of the system are fundamental factors in the equation. Yet, it is compliance to legislation according to primary research that was the key to this very challenging application. FirePro is currently the only fire suppression technology that possesses a declaration from KIWA, confirming its effectiveness in suppressing LiB related fires. FirePro's technology is also backed by the most respected industry certifications and by a vast experience in industrial applications. All these features enhance to FirePro's Engineering ingenuity, dedication and trustworthiness to serve and protect clients and industry.



Risks Involved & Consequences

FirePro Benelux delivered a solution based on the specifications required, the container volume and a well-engineered design that permitted the installation and maintenance of the FirePro System and its Units. The system currently protects intermodal containers across Europe against LiB related fire incidents. These Intermodal Container Units are an innovative solution to the end-client and the industry worldwide.





Results & Implementation

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