



# High Bay Storage

ASD 535 Application Report



For your safety

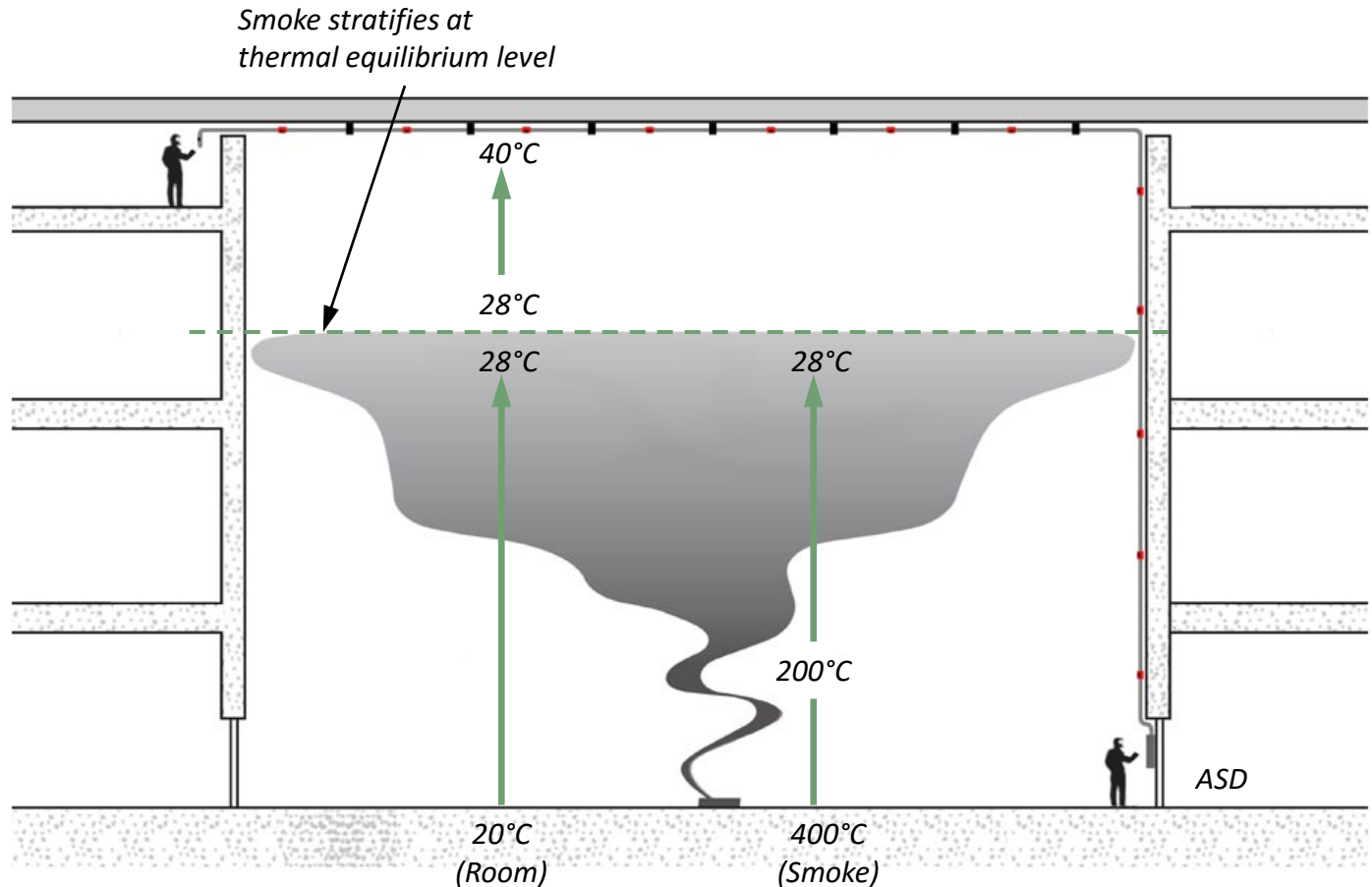
## ■ Application Drivers

- Stratification
- Obstruction
- Serviceability

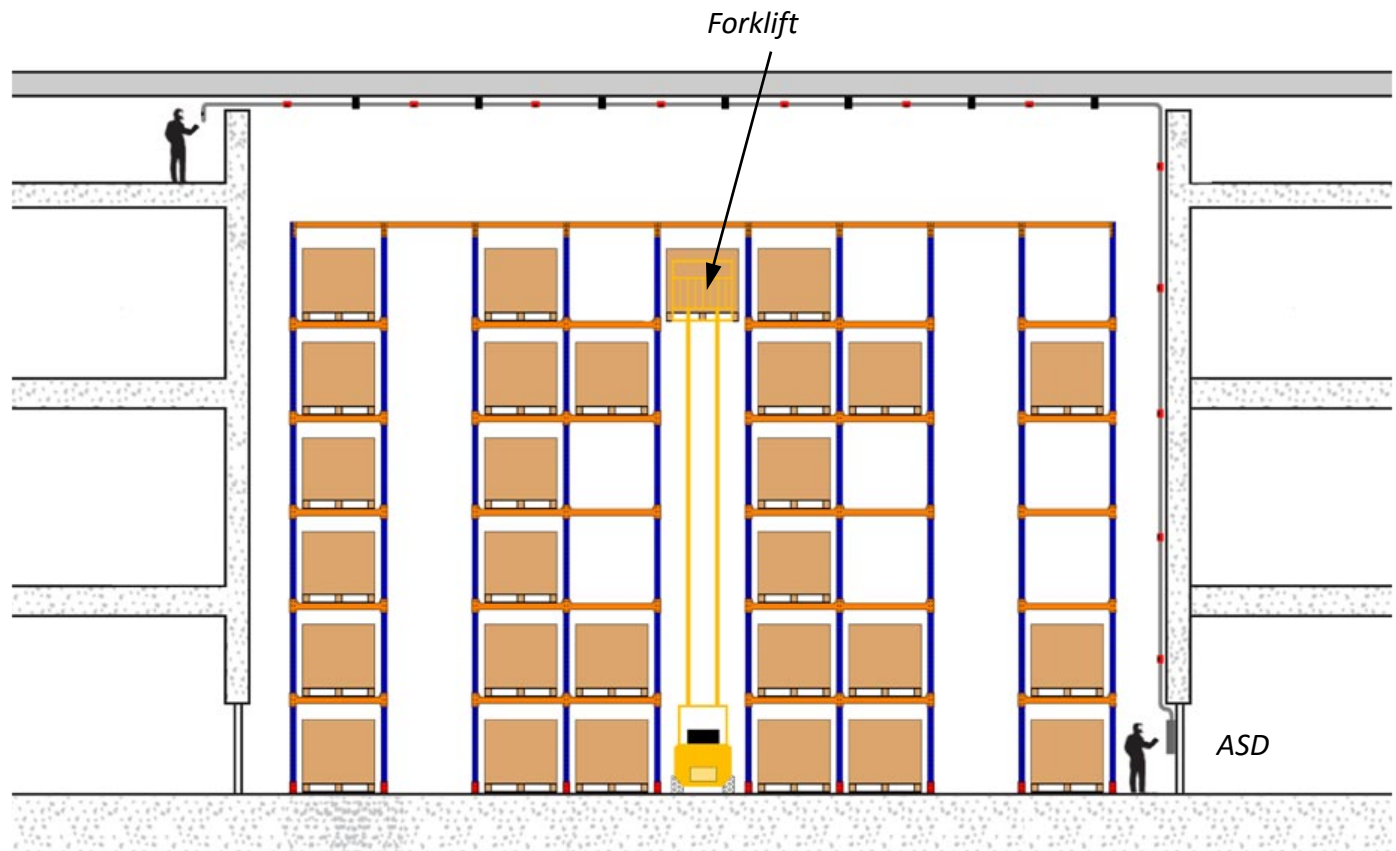
## ■ High-Bay Storage

- Risks, Cause & Damage
- Challenges
- Application Scenarios
- Benefits

The smaller a fire the lower the level of stratification.



Moving forklifts make use of beam detectors impossible.

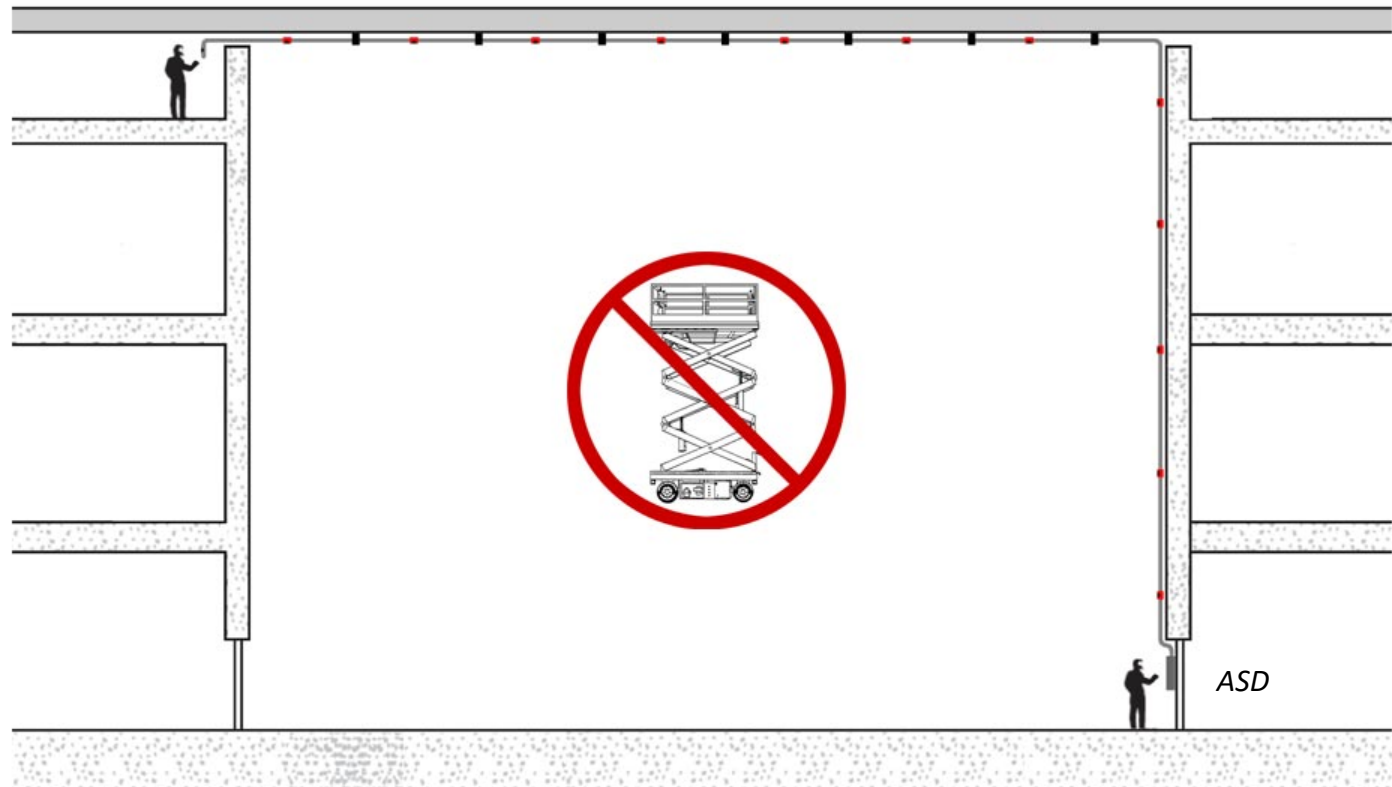


## Attractive ROI in Maintenance

- Reduced number of test points
- Test points are easy accessible

*Test points can be allocated where conveniently accessible*

*Only the most distant point needs to be tested*





## Attractive ROI in Maintenance

### Spot detectors

- 510 detectors
  - tested one by one
- 15 minutes per detector
- Rate: EUR 50 per hour
- Total cost: **EUR 6'375**

### Aspirating system

- 510 sampling points but only
  - 30 test points (branches)
- 15 minutes per test point
- Rate: EUR 50 per hour
- Total cost: **EUR 375**

**Repeated\* Savings: EUR 6'375 – EUR 375 = EUR 6'000**

\*Not only at commissioning, but also at each and every maintenance testing.

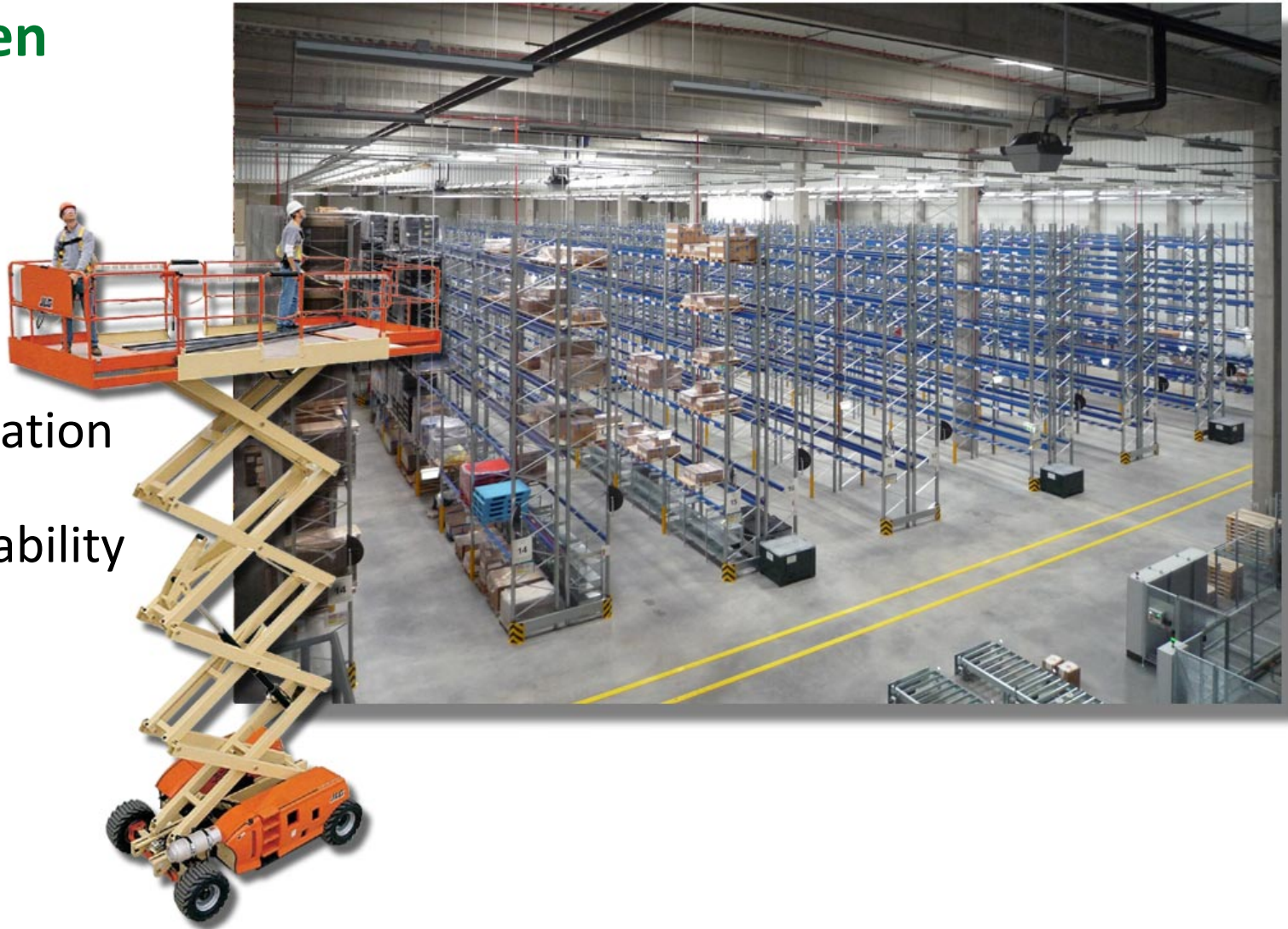
High bay storage facilities are part of the production and delivery process.

Besides the **loss** of goods and buildings, **Business Interruption** is a further concern.



## Large Open Spaces

- Stratification
- Serviceability





## Obstruction

(Moving Vehicles)

- Disruptive to beam detectors

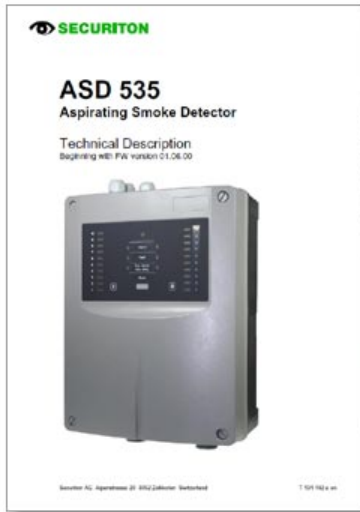


## 1 Rack Monitoring

- Sampling points on different levels

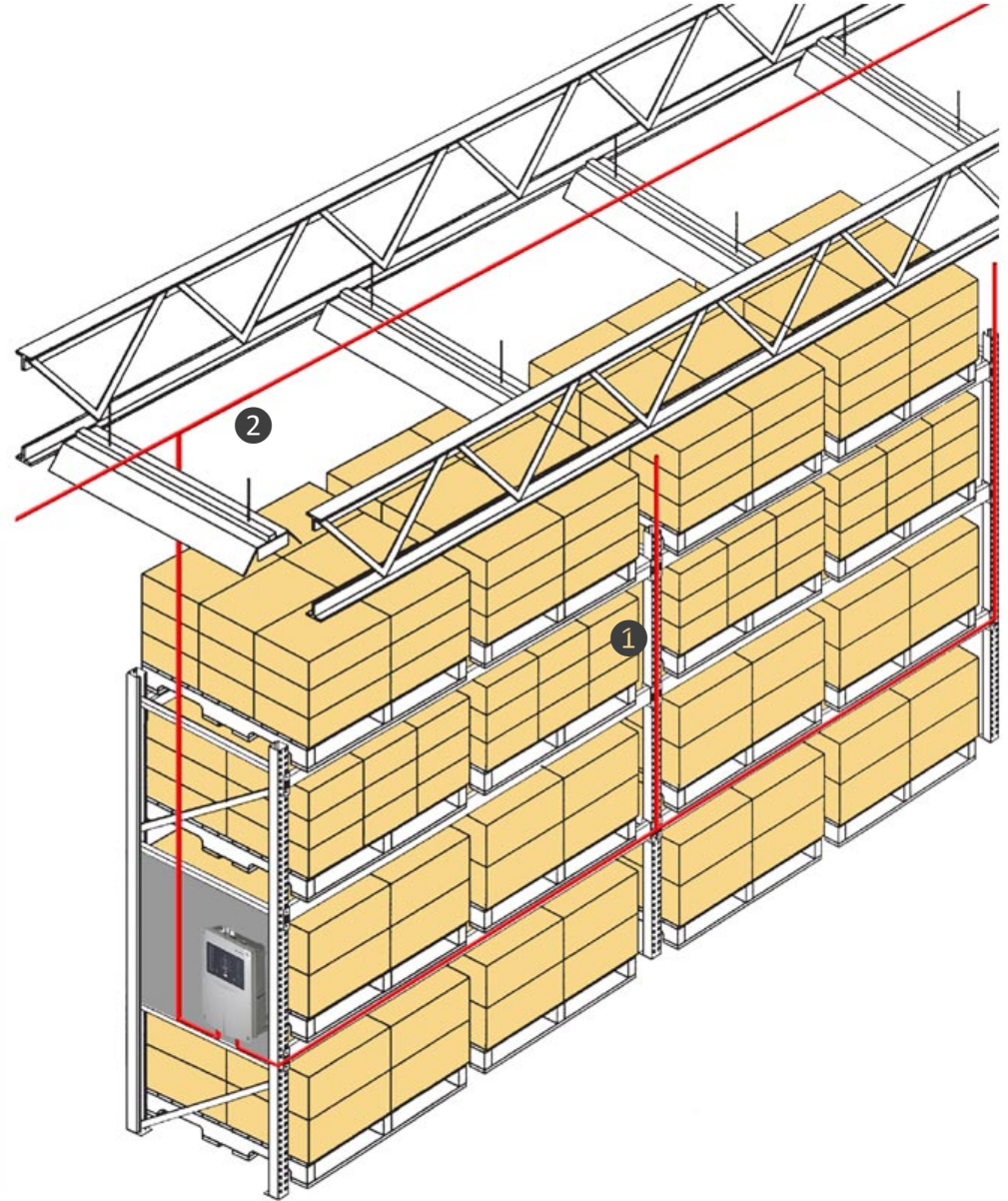
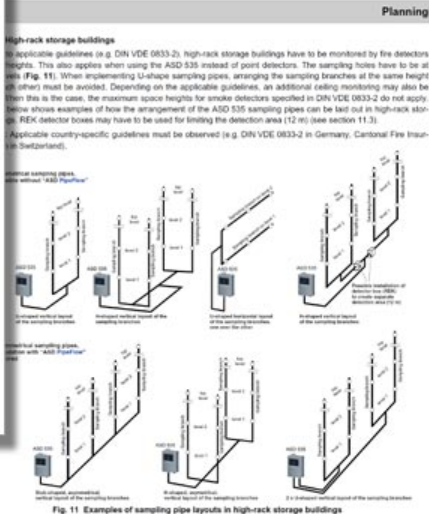
## 2 Area Monitoring

- At ceiling / void above the racks



Page 47 of the ASD 535  
Technical Description.

[ASD535\\_TD\\_T131192\\_en\\_e.pdf](#)



Claim	Benefit	Proof
Most reliable and early detection	<ul style="list-style-type: none"><li>• Early Warning despite stratification</li></ul>	Actively sampling the air on different levels
Most efficiently serviceable system	<ul style="list-style-type: none"><li>• High returns during maintenance</li></ul>	Avoiding the need to test every sampling point with smoke has tremendous cost savings, especially in areas of difficult access.
Only way to a staged a incident control	<ul style="list-style-type: none"><li>• Pre-alarms without the risk of unwanted release of extinguishing</li></ul>	Four sensitivity levels allowing for Alert, Action, Alarm and Extinguishing Release



# Thank you for your attention!



**Securiton AG**  
**Fire Safety Systems**  
**Alpenstrasse 20, CH-3052 Zollikofen**  
**[www.securiton.ch](http://www.securiton.ch), [info@securiton.ch](mailto:info@securiton.ch)**