



Large Open Spaces

ASD 535 Application Report



For your safety

■ Application Drivers

- Stratification
- Serviceability
- Obstruction
- Early Warning

■ Risks, Cause & Damage

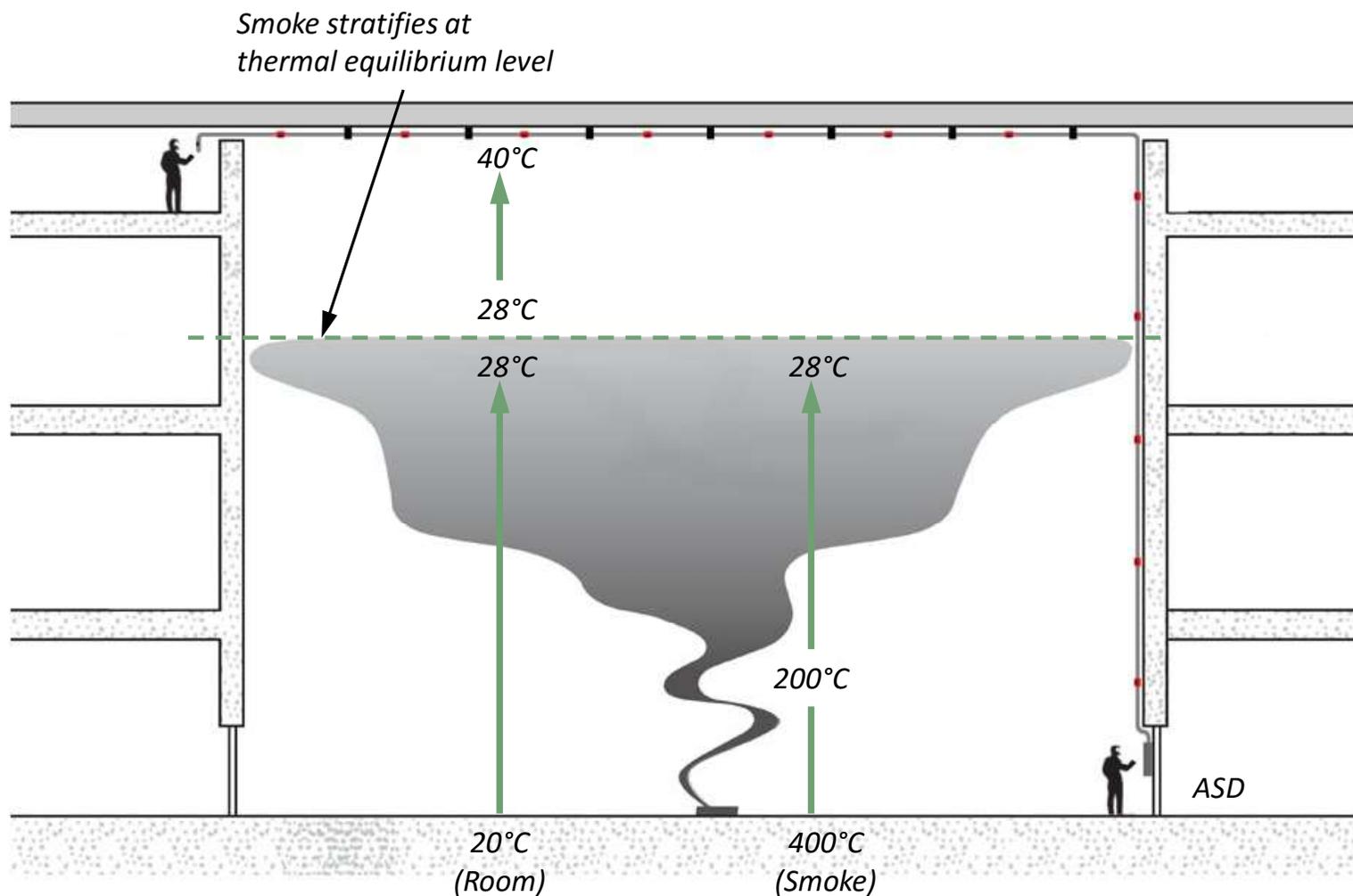
■ Challenges

■ Application Scenarios

■ Regulations & Codes

■ Benefits

The smaller a fire the lower the level of stratification.

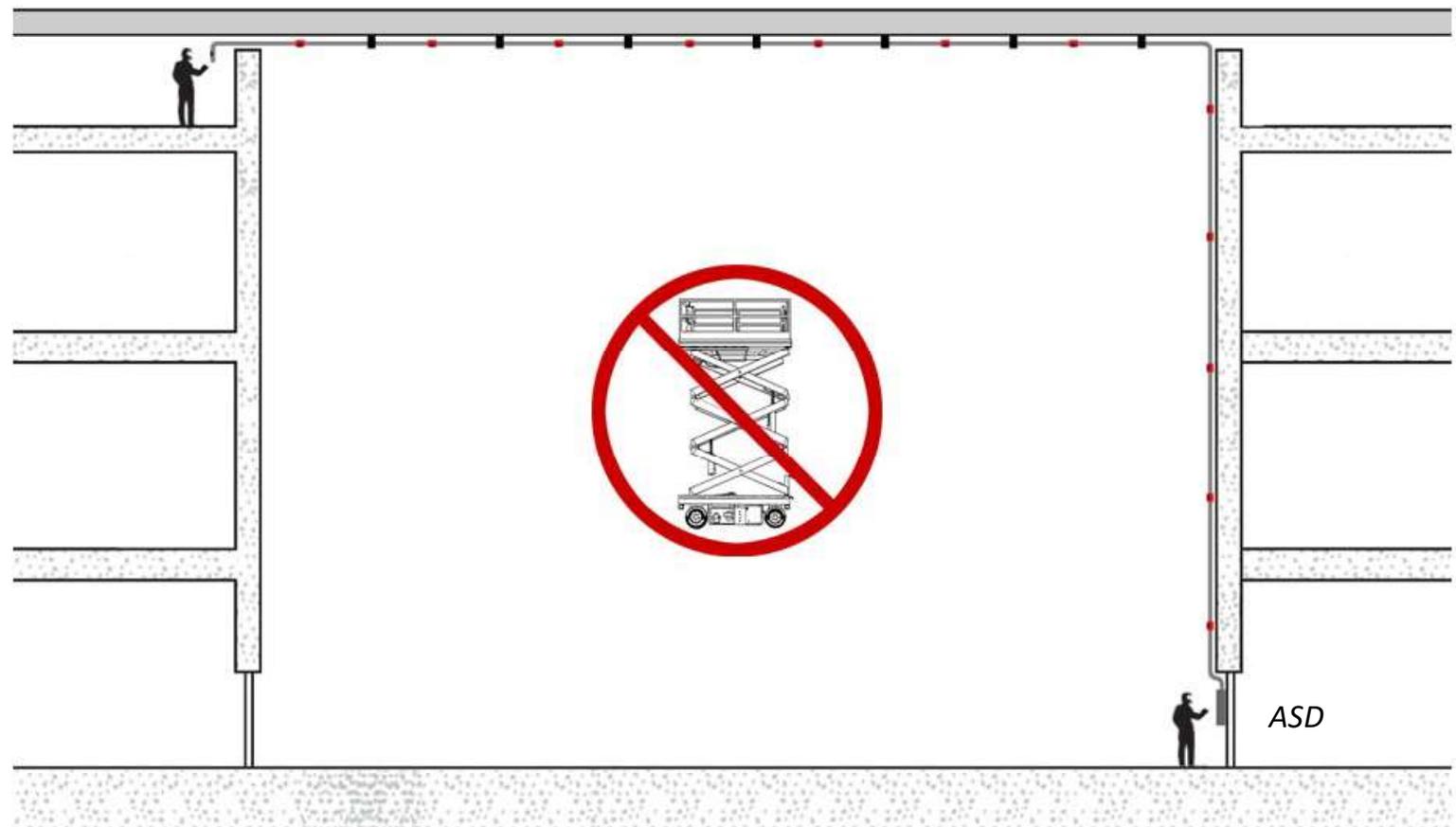


Attractive ROI in Maintenance

- 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**

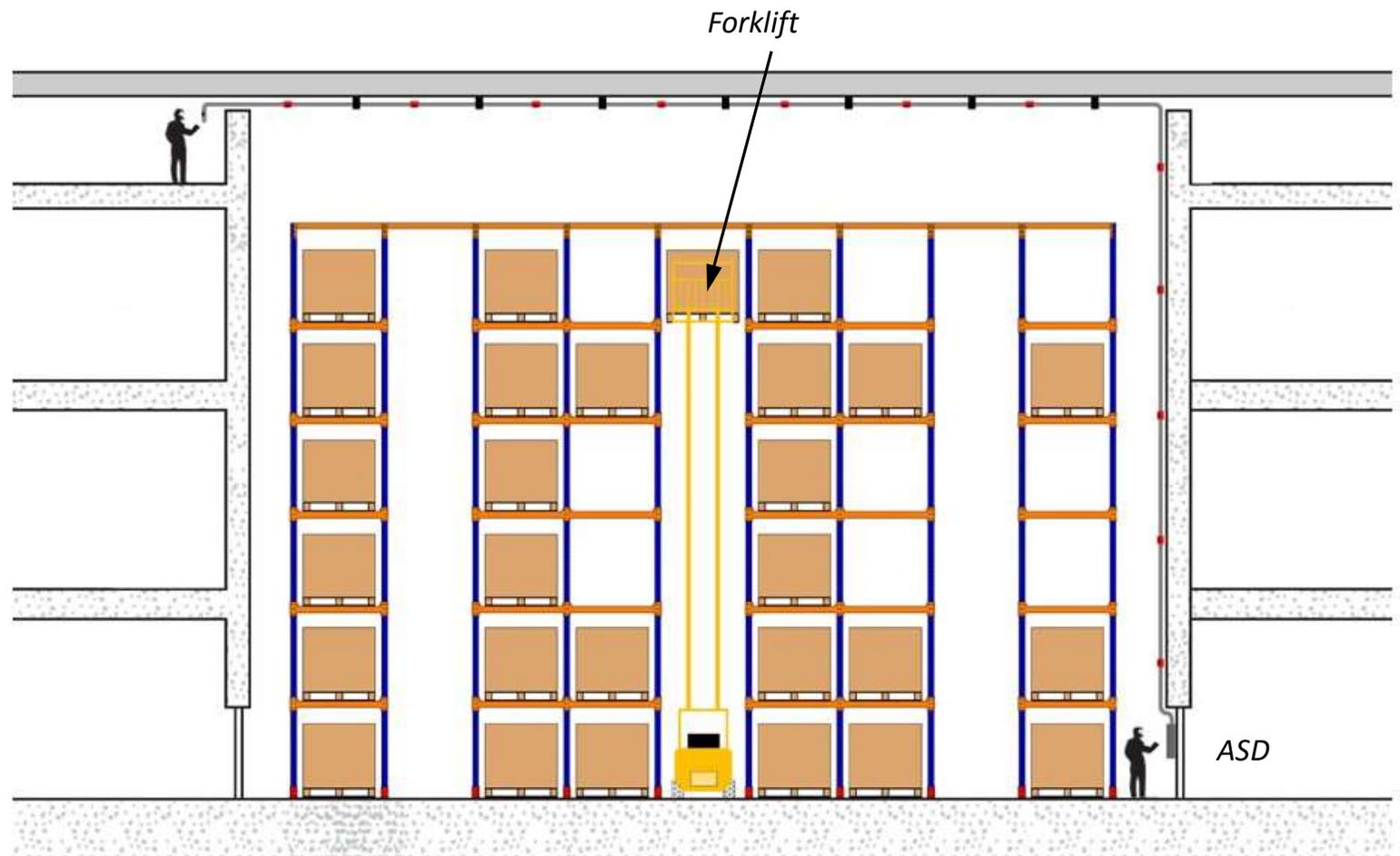
Aspirating system

- 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.

Moving forklifts make use of beam detectors impossible.



Halls are often a densely crowded part of an infrastructure.

Main drivers for using ASD are:

- Gaining time for evacuation
- Unreplaceable goods
 - Pieces of art in museums
 - Cultural artefacts
 - Historical buildings



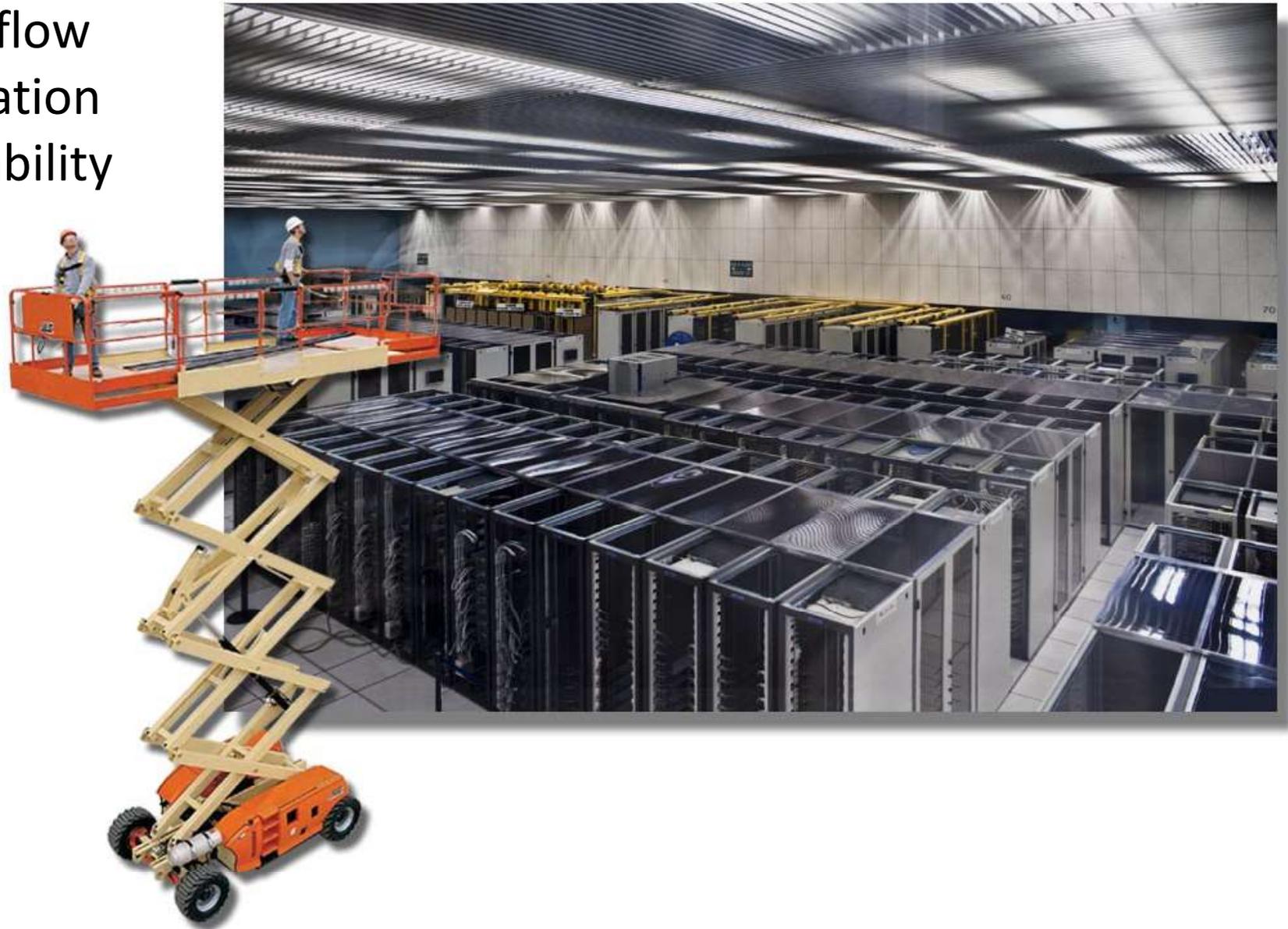
- Stratification
- Evacuation
(early warning)
- Serviceability



- Esthetics
- Stratification
- Serviceability



- High Airflow
- Stratification
- Serviceability



Large Open Spaces

Application Scenarios

Scenarios differ much depending the nature of the project.



Storage



Stage



Exhibition



Turbine Hall



Manufacturing



Museum



Data Center



Cultural Heritage

Claim	Benefit	Proof
Most reliable and very early detection	<ul style="list-style-type: none">• Gain extra time for evacuation• Overcome high airflow constraints	<ul style="list-style-type: none">• Actively sampling the air• Adjustable sensitivity• Powerful aspiration unit
Most efficiently serviceable system	High returns during maintenance	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	Earliest possible warning without the risk of unwanted release of extinguishing	Four sensitivity levels allowing for Alert, Action, Alarm and Extinguishing Release

Thank you for your attention!



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