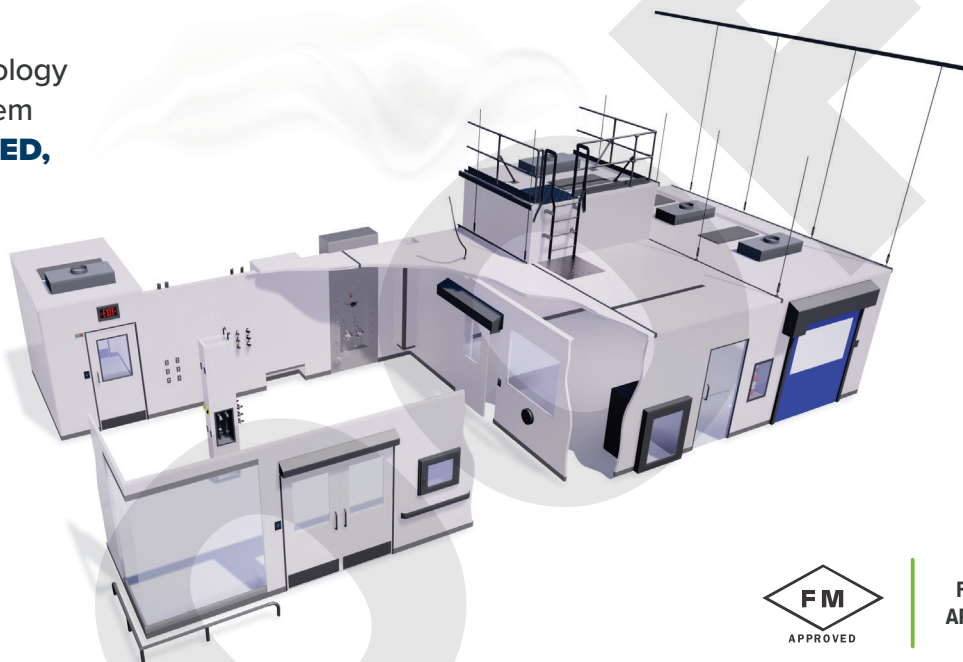


# The Smoke-Sensitive Fire Certification that Biopharma Can No Longer Afford to Overlook.

The AES Cleanroom Technology wall and ceiling panel system is now **FM 4882 APPROVED**, the standard for smoke-sensitive occupancies.



**FM 4882  
APPROVED**



## PROTECT WHAT MATTERS MOST

Significantly less smoke in a fire helps protect product, equipment, and validated environments.



## AVOID COSTLY DISRUPTION

Reduces the risk of batch loss, full decontamination, revalidation, and weeks of downtime.



## MEET THE RISING STANDARD

FM 4882 is the standard for smoke-sensitive occupancies. The requirement is on the way.



## PROVEN. VERIFIED. TRUSTED.

Independently tested, FM Approved, and publicly listed in the FM Approvals Approval Guide.



## BUILT TO DELIVER. BACKED TO PERFORM.

Single-source delivery from design through installation by a team with nearly four decades of expertise.

## THE RISK IS SMOKE, NOT JUST FIRE

FM 4880 ensures the panels will not spread flame. But in a controlled environment, the fire is rarely the largest loss. **Smoke is...**

### ▶ PRODUCT LOSS

Smoke contamination can render in-process and stored biologics unusable.

### ▶ DECONTAMINATION

A smoke-affected cleanroom must be fully decontaminated, not just the area near the fire.

### ▶ REQUALIFICATION & REVALIDATION

Before the suite can run again under GMP, it may need recommissioning, requalification, and revalidation.

### ▶ DOWNTIME & LOST PRODUCTION

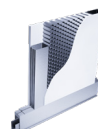
Every week offline is missed output, missed supply commitments, and potential regulatory consequences.

### ▶ PROPERTY & INSURANCE EXPOSURE

FM Approvals grew out of property loss prevention. FM-Approved materials speak directly to the risk and insurance side of a facility owner's world.

## WHAT THE APPROVAL COVERS

FM 4882 applies to the complete AES wall and ceiling panel system, tested and listed as an assembly.



### AES PROFILE WALL

Primary 2" pharma modular wall panel



### AES ADAPT WALL

1/2" wall liner panel



### AES MARQUEE

2" and 3" ceiling panel



### AES PARASOL

1/2" ceiling panel

FM 4882 is additive to FM 4880. FM 4880 certifies a **Class 1 fire rating** (will not self-propagate a fire). FM 4882 certifies **significantly lower smoke generation**. The AES system now holds both.