

Screen Fire Protection







Screen Fire Protection

Your Experts in Fire Protection

LED screens – the underestimated fire hazard!

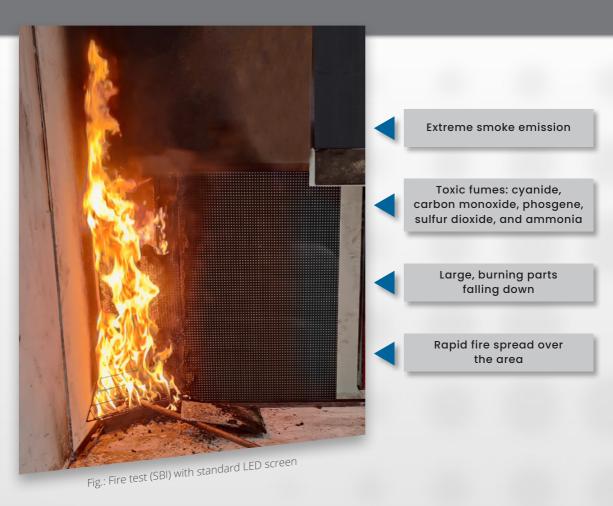
Standard LED screens do not have any certification for their fire behavior and are often even highly flammable. Mainly made of plastics, they are of a highly flammable nature in most cases. At best, the plastics used contain flame-resistant additives. Based on experience these additives will have only little effect in the case of fire. Since LED screens often cover large areas, they carry underestimated safety risks that should be taken seriously.

The fire behavior of LED screens can reach dramatic dimensions: Burning components fall out, bursting LEDs, and the rapid development of toxic fumes are real risks that must be expected here. Fire protection measures, in particular on escape routes, building facades, as well as in special structures and installations, are required by law in order to increase safety in a case of fire.

Therefore, you can prevent uncontrollable fire scenarios and rely on our new patented technology! Only with our Screen Fire Protection (SFP) you will get the world's first LED screen with optimized fire behavior according to EN13501-1



Fire behaviour of a standard LED-screen



Standard LED screens carry an enormous fire potential. They are not only highly flammable, but also continue to burn over a long period of time. The burning plastics also release large amounts of smoke and toxic fumes that contaminate the breathing air.

Without Screen Fire Protection

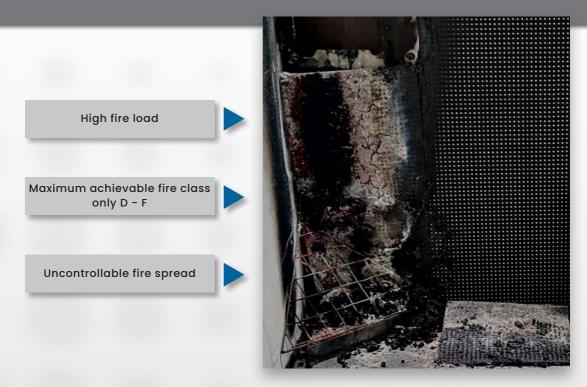
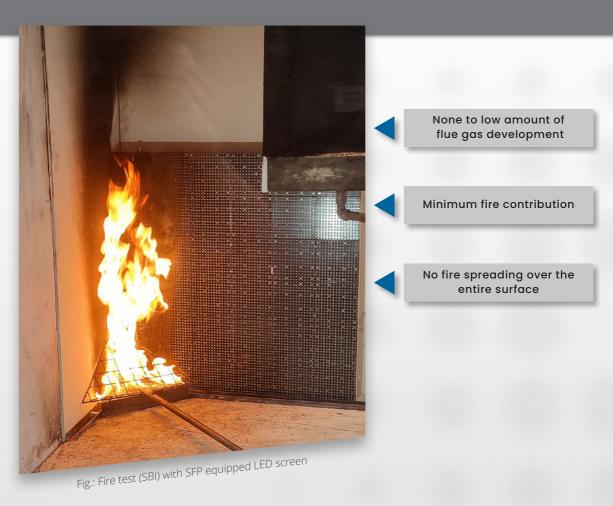


Fig.: Standard LED screen after fire test (SBI)

Underrated risk: Burning pixel cards become detached, fall down and continue to burn on the ground.

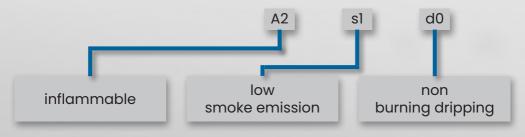


Fire behaviour of an LED screen with Screen Fire Protection



Our patented technology (SFP) provides an entirely new and innovative type of fire protection for LED screens. In the case of fire, SFP reduces outgassing to a minimum and prevents the pixel cards of ignition.

According to EN13501-1 we achieve:



With Screen Fire Protection

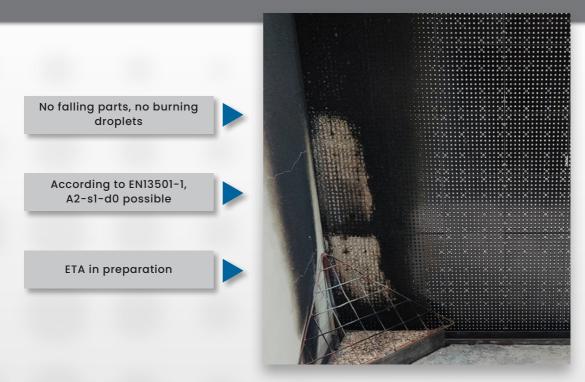


Fig.: SPF equipped LED screen after fire test (SBI)

Screen Fire Protection passes fire tests brilliantly.

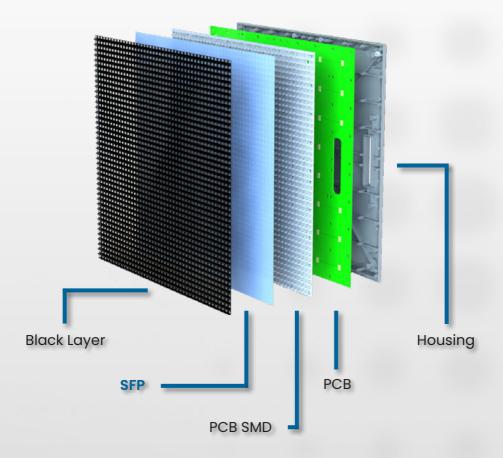
The advantages of the new technology:

- prevents fire spread
- minimal flue gas formation
- not dripping off when burning



Screen Fire Protection





The Screen Fire Protection technology, patented by Screen Experts, solves the safety problems of LED screens caused by fire and thereby significantly improves them.



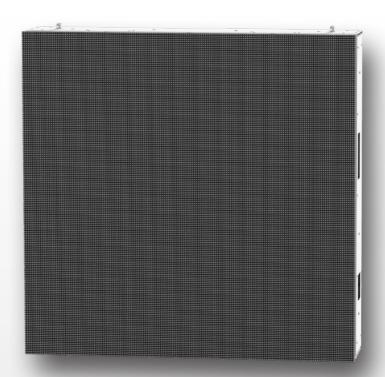
The use of two protective layers ensures maximum safety.

These layers shield the LED-components and reliably prevent the spread of fire.

The benefits of Screen Fire Protection at a glance:

- Multi-layer method for maximum safety
- Single-layer solutions are not effective
- According to EN13501-1, A2-s1-d0 can be achieved
- Indoor and Outdoor versions of different pitches available
- Cost effective: no additional extinguishing systems required
- International patent (16 EU countries, USA, Korea) EP 3 270 369 B1
- Manufactured in Europe
- ETA in preparation





UltraLine

Pitch 6.82 / 8.00 / 10.00 mm outdoor

0.25 / 0.32 / 0.39 in

Type SMD2727 / SMD3535

Technology common cathode

Brightness 8,500 - 10,000 NIT

IC driver high refresh for CCT

Spacing 300 mm x 300 mm

11.81 in x 11.81 in

Weight ~ 42 kg (~ 93 lbs.) / sqm

EMC yes

Highlights energy saving

Fire classification EN13501-1 up to A2-S1-d0



CreativeLine

Pitch 2,60 / 3,90mm indoor

0.1 / 0.15 in

Type SMD1515 / SMD2020

Brightness 1.000 – 1.500 NIT

IC driver high refresh

Spacing 250mm x 250mm

9.84 in x 9.84 in

Weight ~ 28 kg (~ 62 lbs.) / sqm

EMC yes

Fire classification EN13501-1 up to A2-s1-d0



Screen Experts GmbH Eulerstr. 15 DE-48155 Münster Phone +49 (0) 251 590 80 640 Fax +49 (0) 251 590 80 649 www.screen-experts.de