

SonaSpray fire performance ratings

SonaSpray achieves B-s1, d0 with a combustibility rating of B (very limited), the best rating of s1 (little or no smoke) & d0 (no droplets at all).

SonaSpray fire performance ratings

UK fire test by Warrington Fire Research:

Class 0 to BS476 Part 6

Class I to BS476 Part 7

European fire test by Efectis Nederland:

B – s1, d0

Full fire test reports available on request.

Reference to fire classification BS476 Class 0 for ‘ceiling and wall linings’ has been dropped from the Approved Document B in volume 2. They now require the European fire classification for different spaces as shown in the table pictured (click image to enlarge).

Our acoustic finishes all pass the European test as well as the British BS476 Class 0 and also achieve significantly better than the required classifications with **B-s1, d0**.

Table 6.1 Classification of linings

Location	Classification
Small rooms of maximum internal floor area:	D-s3, d2
a. 4m ² in residential accommodation	
b. 30m ² in non-residential accommodation	
Other rooms (including garages)	C-s3, d2
Other circulation spaces	B-s3, d2 ⁽¹⁾

NOTE:

1. Wallcoverings which conform to **BS EN 15102**, achieving at least class C-s3, d2 and bonded to a class A2-s3, d2 substrate, will also be acceptable.

European classification explained

The first letter gives a classification based on the combustibility and contribution to fire: A1 & A2 is non-combustible, B - D go from very limited to medium contribution to fire & E - F go from high contribution to easily flammable.

's' is an additional classification in relation to the total smoke propagation / emission level. The values range from s1 - s3:

- s1 - a little or no smoke (SonaSpray achieves)
- s2 - quite a lot of smoke
- s3 - substantial smoke

'd' is an additional classification in relation to the amount of flaming droplets generated by a product during the first 10 minutes of exposure. The index is:

- d0 - none (SonaSpray achieves)
- d1 - some
- d2 - quite a lot

B-s3, d2 is required for any circulation space but you might argue that these spaces more than any would require the very minimum of smoke and burning droplets in order for the occupants to escape during fire.

SonaSpray achieves a combustibility rating of B meaning very limited, the best rating of s1 meaning little or no smoke and d0 meaning no smoke at all.

BS EN 15102 explained

You might notice the reference at the bottom of the table to **BS EN 15102**. This has generated some confusion. This document applies to 'wallcoverings in roll form supplied for hanging onto internal walls, partitions or ceilings, by means of an adhesive, whose primary purpose is decorative'. These include wall covering such as finished wallpapers, cork rolls, textiles, wall plastics and vinyls. These should then be bonded onto a non-combustible wall or ceiling surface with a minimum of A2 s3, d2.