

# Euroclasses

Euroclass	Test Method(s)	Test criteria	Additional information
A1	Non-combustibility	Temperature rise. Mass loss. Sustained flaming	None
	AND Calorific content	Total energy in product. Energy per internal & external component	
A2	Non-combustibility	As above	Smoke production & Flaming droplets or particles
	OR Calorific content	As above	
	AND Single Burning Item (SBI)	Fire growth rate. Lateral flame spread & total heat release in 600s	
B	Single Burning Item (SBI) AND Small flame test for 30s	As SBI above Lateral flame spread in 60s	Smoke production & Flaming droplets or particles
C	Single Burning Item (SBI) AND Small flame test for 30s	As SBI above Lateral flame spread in 60s	Smoke production & Flaming droplets or particles
D	Single Burning Item (SBI)	As SBI above	Smoke production & Flaming droplets or particles
	AND Small flame test for 30s	Lateral flame spread in 60s	
E	Small flame test for 15s	Lateral flame spread in 20s	Flaming droplets etc
F	No performance determined		

# Euroclasses, attributes s and d

Beside the Classes A-F, attributes (d,s) are added

**s**= tendency to release smoke

**s1**: little or no smoke

**s2**: quite a lot of smoke

**s3**: substantial smoke release

**d**= flaming droplet particles

**d0** = None

**d1** = some

**d2** = quite a lot.

# Euroclasses, **IMPORTANT !!!**

The Euroclasses are as installed : results are only valid when the material is installed in the same assembly as during the test.

Corian<sup>®</sup> was tested as followed :

**Corian<sup>®</sup> sheet**

**+ Silicone Sealant**

**+ Gypsum board 12.5 mm thick**

# Transposition BS476 – Euroclasses England & Wales

Amendments 2002 to approved Document B ( Fire Safety) 2000 edition were published in December 2002- and applicable from 1 March 2003..

British Standard	Transposition to Euroclasses
Non- combustible	A1, <i>or considered as A1 'without the need for further testing' as defined in Commission Decision 96/603/EC dated 4th October 1996.</i>
Limited combustibility	A2 – s3, d2 or better
Class 0	B – s3, d2 or better
Class 1	C – s3, d2 or better
Class 3	D – s3, d2 or better

# Corian<sup>®</sup> BS 476 part 6 & 7

**Class 1** obtained for CW 6mm glued on gypsum-board.

Test report Warrington UK

n° 113487 and 113488, April 2002

# Corian® Euroclasses EN 13501-1

Testresults applicable for all colors !

**Standard 6mm and 12.3mm : C,s1,d0**

**FR-grade 12.3mm : B,s1,d0**

(Corian® sheet + Silicone Sealant + Gypsum board 12.5 mm thick)



**Warres No ES131024  
 Summary Report  
 Classification of reaction to fire  
 performance to EN 13501-1**

The sponsor stated that "Corian® FR" comprises polymethylmethacrylate resin, pigments and mineral fillers.

**'Corian® FR Solid Surface Sheeting'**

**4. CLASSIFICATION**

In accordance with the procedures given in EN 13501-1, the above product has been classified as follows:

**B – s1, d0**

**5. FIELD OF APPLICATION**

The stated performance given in this document is limited to the product listed in 3 above in the following configuration and dimensions:

Property/variation	Allowable variation from tested construction
Thickness	12.3mm (± 0.7mm)
Density	Between 1695kg/m <sup>3</sup> and 1770kg/m <sup>3</sup>
Colour	Any colour variation allowed
Substrate	Substrates with a fire performance of A2 or better
Adhesive	Corian® silicone sealant only





**Warres No ES131025  
Summary Report  
Classification of reaction to fire  
performance to EN 13501-1**

The sponsor stated that "Corian®" comprises polymethylmethacrylate resin, pigments and mineral fillers.

**'Corian® Solid Surface Sheeting'**

#### 4. CLASSIFICATION

In accordance with the procedures given in EN 13501-1, the above product has been classified as follows:

**C – s1, d0**

#### 5. FIELD OF APPLICATION

The stated performance given in this document is limited to the product listed in 3 above in the following configuration and dimensions:

Property/variation	Allowable variation from tested construction
Thickness	Between 6mm and 12.3mm ( $\pm 0.7$ mm)
Density	Between 1645kg/m <sup>3</sup> and 1770kg/m <sup>3</sup>
Colour	Any colour variation allowed
Substrate	Substrates with a fire performance of A2 or better.
Adhesive	Corian® silicone sealant only

# Conclusion

Based on the transposition we can:

- use Corian FR in applications where the building requirements require Class 0 materials.
- Use Corian Standard in applications where the building requirements require Class 1 materials.

## IMPORTANT !

We **can't claim** that our material (FR) is **Class 0** as we know that it doesn't pass the tests for Class 0 according to BS476. It's just that due to the transposition materials with class B are accepted for applications that required class 0 before.

This is only valid for Corian glued with silicone adhesive on a min 12.5mm thick material class A1/A2 like gypsum.