Brimico Panelling

Brimico 300 panelling is currently being used for the production of rail vehicle interior cladding. These may be Bodyside panels as well as ceiling panels. Other applications include Driver's Desk consoles, Standbacks and Draught Partition screens.

Brimico panelling is through coloured to maintain colour during wear. A variety of surface textures are available together with different surface patterns. The panelling can be produced in large sections and is mouldable to virtually any shape.

The composite offers high performance fire specifications for use in railways, tunnels, construction and offshore applications.

These two properties combine to offer the designer a flexible system that can be tailored to meet a wide range of applications and specifications.

The resin chemistry of the Brimico system combined with the use of aluminium hydroxide is the key to the low CO levels. The results of this are seen in the exceptionally low R value of 1.72 when the system is tested to BS6853: 1999. It is well established that CO is the singlemost important factor associated with deaths in fires. Comparisons of test results for Brimico composites against phenolic based systems are shown in the tables below.











(Heat Flux 50 kW/m ²)					
	(mailin 9001 - T - 1 (00 pin CN - 821)	Phenolic 30 vit % plans			
		Unpainted	Painted		
Time to ignition (k)	188	135	158		
Total heat release (k.1/m?)		\$9058	39569		
Total articles emission (milin			506		
Carton dioxide (tight)			2.30		
Carbon monoside (kg/mP)					





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Brimico Panelling

Brimico through panelling is fully tested against all major fire and smoke criteria. A summary of these is set out in the table below. The material also offers a high level of electrical insulation and thermal insulation, further details of these properties may be found on the Brimico 300 Arc Barrier data sheet.

Test Standard	Brimico 300	Brimico220	Brimico 150
NFX 70 - 100	R = 1.72		
BS 476 Pt.7 (surface spread of flame)	Class1 (zero spread)	Class 1	
BS 476 Pt.6	I = 6.7, i = 0.0	l = 9.8, i = 0.1	
NFP-92-501	M1	M1	M2
NFF-16-101	FO	FO	
LOI (ASTM D2863)	100%	78%	
DIN 5510			S4/SR2/ST2
3 Metre cube test 60 Deg panel test	Ao(ON) = 3.0 Ao(OFF) = 3.6		
Tensile Strength MPa	32.96	41.06	48.46
Flexural Strength MPa	87.72	102.8	122.6
Impact Strength J	8.27	8.66	10.50

Brimico panelling in a typical vehicle coniguration. Also featured tables manufactured by British Mica and seating manufactured by VBK.

