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Advantages of using Fibre Cement

For generations, Briarwood have been supplying fibre cement products to farmers and commerical customers scattered all over the United Kingdom to help build long-lasting structures. Our Fibre Cement Sheets are made using a compound mixture of 51% cement, 30% air, 12% water, 5% cellulose and 2% reinforcement fibres.

What are the advantages of using fibre cement?

When you look to find a roofing solution, fibre cement has many benefits over metal making it sustainable, durable and requires no maintenance in the long run.

- Vapour permeability significantly reduces condensation
- High resistance to corrosion which increases the life expectancy of the product
- Low thermal conductivity reduces heat build-up in the Summer and heat loss in the Winter
- Excellent acoustic insulation.
- Class 0 fire rated
- Wide range of accessories and colours available.
- Maintenance free product.
- Normal life expectancy of 50 years.
- Manufactured to a quality system registered under BS EN ISO 9001.
- Complies with BS EN 494 requirements for Class 1X sheeting.
- EUROSIX is classified as non-fragile and meets the latest requirements for roof safety as laid down by the Health and Safety Executive.

The key aspect on why you would choose fibre cement over metal is that it is far more durable. Unlike fibre cement, metal corrodes and rusts overtime whilst not being able to absorb water which primarily causes problems with condensation.

EUROSIX Fibre Cement Profiled Sheets Testing Standards

Mechnical characteristics	Nominal values	Average value	Reference standard
Ultimate Tensile Strength (24 hours in water)	≥ 4250 N/m	5000 N/m	UNI EN 494
Bending Moment (24 hours in water)	≥ 55 Nm/m	70 Nm/m	UNI EN 494
Ultimate Tensile Strength (as delivered)	-	6800 N/m	UNI EN 494
Bending Moment (as delivered)	-	90 Nm/m	UNI EN 494
Buckling Strength (submerged in hot water)	L ≥ 0.75	L = 1	UNI EN 494
Buckling Strength (50 submerged wet-dry cycles)	L ≥ 0.75	L = 1.2	UNI EN 494
Buckling Strength (100 freeze/thaw cycles)	L ≥ 0.75	L = 1	UNI EN 494
Buckling Strength (after residence in oven)	L ≥ 0.75	L = 0.8	UNI EN 494
Hail Resistance	Class 11	Class 19	UNI 10890
Resistance to Puncture by a Large, Soft Object	Class C	Class C	ACR [M]

Physical characteristics	Nominal values	Tolerance	Reference standard
Bulk density	≥ 1.625 g/cm3	-	UNI EN 494
Water absorbtion	≤ 18 %	-	UNI EN 494
Weight (as laid)	18 kg/m2	± 1.5 kg/m2	± 1.5 kg/m2
Humidity (After 30 days of ageing)	≤ 10 %	-	-
Fire Reaction	Class 1	-	BS 476/7 of 1997
Impermeability to water	Compliant	-	UNI EN 494
Thermal conductivity	0.34 V/mK	-	-
Sound-Insulation "Rw"	31 dB	± 2 dB	ISO 717

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