



# ICB

*Sustainable Roofing Solutions*

# FiberTite®

## Waterproofing membranes



# FIBERTITE®

**FiberTite from ICB is a single ply membrane which exceeds the highest technical standards. The membrane has been installed and specified on some of the most prestigious buildings in the world.**

The membrane consists of a high quality knitted polyester fabric, coated with a proprietary compound, utilising DuPont's™ Elvaloy® Ketone Ethylene Ester (KEE) as the principal polymer in the hybrid vinyl alloy coating and is suitable for every type of flat roofing project.

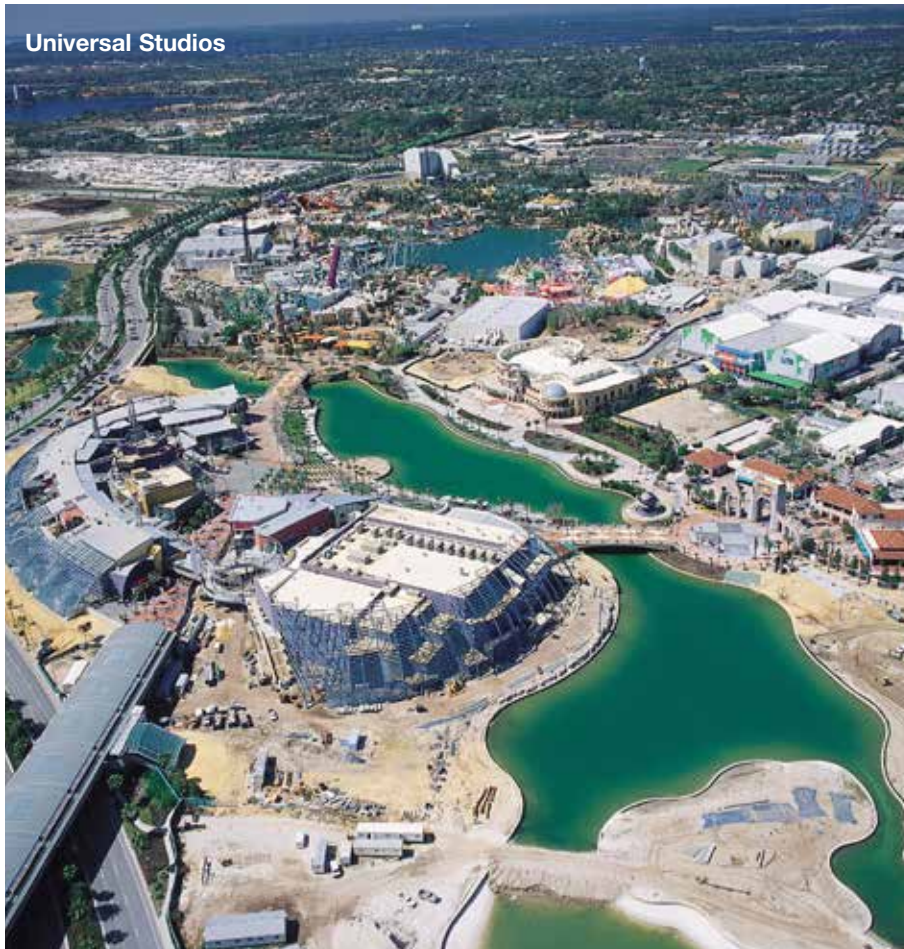
FiberTite exceeds all the requirements enumerated in ASTM D6754-02 Standard Specification for Ketone Ethylene Ester (KEE) Based Sheet Roofing and further exceeds the physical properties and performance characteristics demanded for single ply membranes.

**FiberTite is BBA certified.**

Quality control over the manufacturing process, from the selection of the yarns, to the engineering, knitting and weaving of the base fabrics to the final coating process, is carefully monitored to ensure that FiberTite always continues to provide advanced performance.

FiberTite single ply membranes are the result of 60 years of applied fabric engineering and coating technology. All membranes are constructed using high tenacity/ heavyweight yarns to create a base fabric reinforcement to impart superior puncture, tensile and tear resistance properties.

The base polyester fabrics are primed with a unique and proprietary adhesive coat that lays the foundation to chemically bond the KEE coatings to maximise seam strength and overall membrane performance.



**Universal Studios**



**Berea Roof**



**Bank of Naples**

FiberTite is coated on both sides with a sophisticated "KEE" formulation to provide superior hot air welding characteristics, extreme UV resistance, broad chemical resistance and long-term flexibility. It also means that it is easy to repair.

FiberTite also exhibits superior tear, puncture, fungus, algae and flame resistance to make it one of the most sustainable roofing systems available.

The membranes are also user friendly. Seaming is easily accomplished by fusing the thermoplastic membrane with conventional hot air welding equipment.

The systems carry extensive FM Global and Underwriters Laboratories approvals and can be installed by mechanically fastening the membrane with Fasteners and Stress Plates to pre-approved substrates.

FiberTite can also be installed in typical ballast configurations using conventional stone or pavers or ballast and is suitable for Roof Gardens.

For specific installation recommendations and requirements, please consult ICB for technical support.

[www.icb.uk.com](http://www.icb.uk.com)

# TECHNICAL DATA

			FiberTite 8530	FiberTite 8540
Properties	Testing Method	Unit	Result	Result
Effective thickness ( $e_{eff}$ ) of the waterproofing	EN 1849-2	mm	0.91	1.14
Watertightness	EN 1928	kPa	Pass	Pass
External Fire Performance	BS476 Part 3 1958		F.AB	F.AB
Joint Peel resistance	EN 12316-2	N	241	241
Joint Shear resistance	EN 12317-2	N/50mm <sup>-1</sup>	1860	1860
Tensile Strength un-aged	EN 12311-2	N/50mm <sup>-1</sup>	Longitudinal 2675 Transverse 2560	Longitudinal 2895 Transverse 3180
Elongation un-aged	EN 12311-2	%	Longitudinal 17 Transverse 16	Longitudinal 19 Transverse 18
Resistance to Impact Load	EN 12691		⊃10	⊃10
Resistance to Static Load	EN 12730		⊃20	⊃20
Tear Resistance	EN 12310-1	N	Longitudinal 504 Transverse 321	-
Resistance to Root Penetration	FLL		Compliant	Compliant
Dimensional Stability	EN 1107-2	%	Longitudinal -0.2 Transverse 0.0	Longitudinal -0.3 Transverse 0.0
Low Temperature Flexibility	EN 495-5	°C	Longitudinal -35 Transverse -30	Longitudinal -35 Transverse -30
Bitumen Compatibility			Yes	Yes



## Puncture Resistance

FiberTite maximises puncture resistance by using the industry's heaviest base fabrics and a proprietary knit design. It exceeds all of the physical property requirements of ASTM Standard D6754-02 and is the only membrane that meets the ASTM polymer content definition for Elvaloy®.



## Chemical Resistance

FiberTite provides superior resistance to common environmental contaminants – including acids, grease and fuels. The inherent chemical resistance of FiberTite's KEE membrane is unsurpassed, allowing it to maintain excellent flexibility, as well as chemical and UV resistance.



## Flame Resistance

FiberTite employs chlorine in its compounds to deliver enhanced fire resistance. Under the UL (Underwriters Laboratories) 214 test criteria for flame resistance of coated fabrics – FiberTite is self-extinguishing while TPO roofing membranes exhibit combustible characteristics.

ICB (International Construction Bureau) Ltd is one of Britain's leading suppliers of sustainable, environment friendly roofing systems. Established for almost 30 years and supported by a nationwide network of fully trained licensed installers, the company has developed an enviable reputation for delivering quality, reliability and technical excellence.

In addition to **FiberTite**<sup>®</sup>, ICB also supplies **XTEVA**<sup>®</sup> a cost effective fully adhered single ply membrane suitable for large roof areas and the high quality well established **alwitra**<sup>®</sup> Single Ply Roofing Systems.

**Diadem**<sup>®</sup>, a green roofing system with more than 300 different components and compatible with any type of waterproof membrane, is also supplied by ICB and continues to be specified on high profile projects across the UK.

To complete the range is **Barrial**<sup>®</sup>, a complete Guardrail Safety System manufactured from lightweight recyclable aluminium. The range is widely available across Europe where it has been successfully used for more than 20 years.

Add our products and systems together and they represent the ultimate roofing package.

[www.icb.uk.com](http://www.icb.uk.com)

 @icb\_uk

For further information, please contact:

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