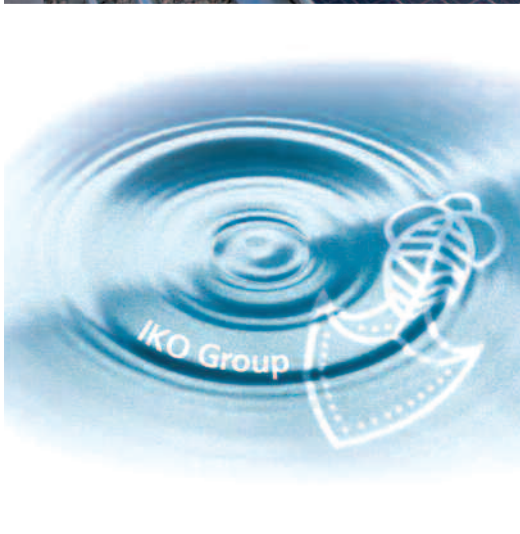


# **IKO** *permaTEC*

**Hot Melt Waterproofing System**



Leadership through innovation





# **Experience innovation performance...**

## **...setting the standard in hot melt waterproofing technology**

We are immensely proud of the PermaTEC system. We believe that our UK facilities produce the best performing hot melt waterproofing system in the market, that our service and technical support are unmatched and that our environmental credentials can genuinely make a difference.

PermaTEC is versatile enough to accommodate a wide variety of roof types, it is simple to apply in a range of weather conditions and it has a proven track record of durability and long-term performance. Once installed, you can be assured that PermaTEC is providing outstanding protection that will last for the entire design life of your building.





## Pioneering the Industry with a Series of Firsts:

### First to manufacture in the UK

We manufacture all components in the UK and deliver directly to the construction site, eliminating transport miles between plants and from distributor to merchant, keeping our delivery carbon footprint to a minimum.

### First to offer zero wrapper waste

IKO revolutionised the industry by developing a lightweight, zero-waste wrapper, which dissolves into the compound during the melting process and effectively eliminates on site waste disposal costs.

### First to develop lower application temperatures

To reduce the energy consumption on site, we lowered PermaTEC's melting point by 20%. Not only does the compound require less energy to melt, it now melts faster and remains workable for longer.

### First to introduce a root resistant hot melt compound

Our new PermaTEC Anti-Root is the world's first monolithic hot melt to eliminate the need for a separate anti-root membrane, reducing the material needed to create a green roof.

First for Specifiers



First for Contractors



First for the Client



First for the Environment



**IKO permaTEC**  
Hot Melt Waterproofing System

# The 1st choice waterproofing solution.

It's really no surprise that specifiers choose PermaTEC. Tough, flexible and self-sealing, the PermaTEC membrane creates a seamless, fully bonded waterproofing system for flat roofs, inverted roofs and green roofs, as well as podium decks and a multitude of structural situations.

Its proven performance, when combined with its documented durability, ensures that the PermaTEC hot melt system will provide unrivalled protection.





## Hot Melt's Origin

In the late 1960s, the expanding urban landscape of North America required a waterproofing system capable of withstanding the extremes of weather found across the nation. "Hot melt" was developed to meet this need, becoming widely used and highly regarded throughout the North American construction industry.

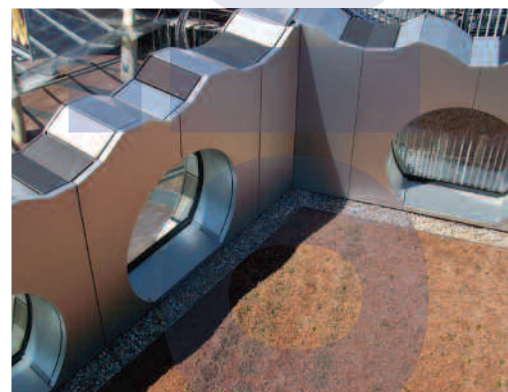
The product literally crossed the Atlantic during the 1980s. UK architects and contractors were obliged to use the original imported North American hot melt systems. The UK didn't have a comparable product until IKO launched PermaTEC; the first UK made hot melt. Our expertise in bitumen technology allowed us to develop an improved product, a hot melt for the 21st Century, which quickly found success.

## The PermaTEC Difference

PermaTEC has raised the bar for hot melt waterproofing solutions. It is the acknowledged market leader, founded on IKO's thorough research and development programme and more than 100 years of expertise in the manufacture of bitumen based products.

The heart of the system is a specially formulated blend of refined bitumen, polymers, synthetic recycled rubber, high performance fillers and critical additives. Delivered direct to site in 12kg blocks, PermaTEC is melted in a dedicated machine and is applied as two 3mm thick coats to a prepared structural deck, creating a fully bonded and impermeable monolithic waterproofing membrane.

Special reinforcement sheets, drainage layers, root resistant products and a range of surface protections help to provide the complete PermaTEC system for each project.



## Long-Term Performance

PermaTEC is formulated to maintain its integrity, and therefore waterproofing, throughout the lifetime of the building it is protecting. This outstanding performance eliminates future replacement costs and delivers exceptional value for money.

## Monolithic Membrane

PermaTEC is applied directly on to the prepared deck and forms a completely seamless waterproof barrier. Because it is fully bonded to the deck and there are no lap joints to fail, there is no risk of water tracking underneath the membrane.

## Ultra Durability

PermaTEC is strong yet flexible, a combination that gives outstanding resistance to impact damage. It is unaffected by standing water, dilute acids or fertilisers. The consistent dispersion of critical polymers within the compound creates a product with inherently superior longevity.

## Cost Effective Installation

PermaTEC is simple and safe to install. It does not need the deck to have a fall, which eliminates the additional cost, time and weight of a screed. The compound is solvent free, does not need mixing on site and has no on site curing requirements.

## Any Site, Any Time

PermaTEC can also be installed during winter, avoiding lost construction time. In temperatures down to -18°C it can be applied to dry, frost-free surfaces with no loss of flexibility or adhesion. Once installed it can be walked on straight away and is unaffected by rain, snow or frost.

## Quality Workmanship

PermaTEC is only installed by a nationwide network of trained and qualified roofing contractors. Every installation is monitored by our engineers to maintain compliance with the agreed specification.



# Education

## Evelyn Grace Academy London

Year: 2011

Architect / Specifier: Zaha Hadid Architects

Contractor: Mace Group

Roofing Contractor: Rock Complete Waterproofing

Size: 5,000m<sup>2</sup>

System Used: PermaTEC System







## Ravensbourne College London

**Year:** 2010

**Architect / Specifier:** Foreign Office Architects

**Contractor:** Bovis Lend Lease

**Roofing Contractor:** Prater Limited

**Size:** 1,500m<sup>2</sup>

**System Used:** PermaTEC System with IKOgreen  
Extensive Green Roof



## Brunel Academy Bristol

**Year:** 2007

**Architect / Specifier:** Wilkinson Eyre Architects Ltd

**Contractor:** Skanska UK PLC

**Roofing Contractor:** Malone Roofing Ltd

**Size:** 2,500m<sup>2</sup>

**System Used:** PermaTEC System



# Commercial



## Riverbank House London

**Year:** 2010

**Architect / Specifier:** EPR Architects

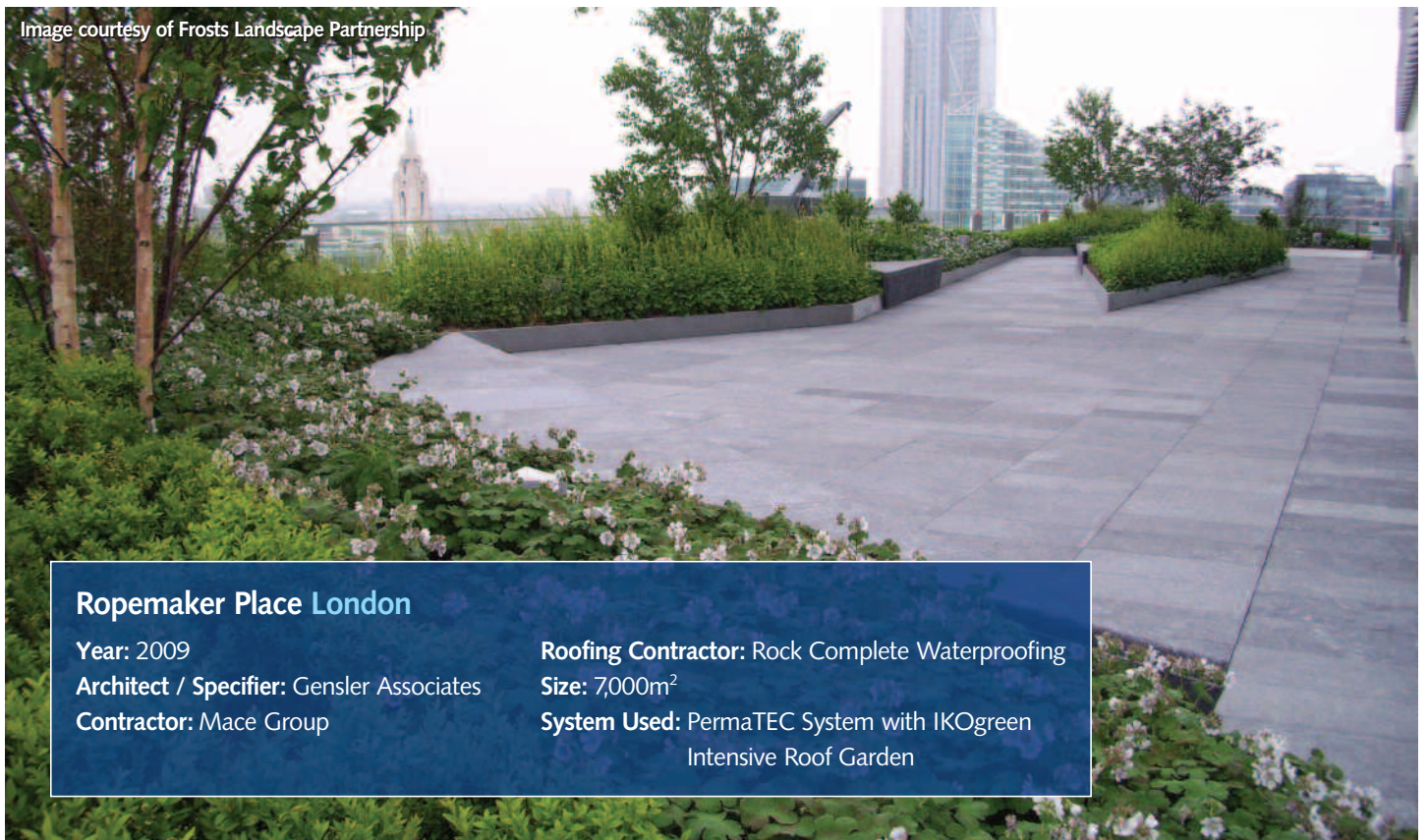
**Contractor:** Sir Robert McAlpine Limited

**Roofing Contractor:** Prater Limited

**Size:** 4,000m<sup>2</sup>

**System Used:** PermaTEC System with IKOgreen  
Extensive Green Roof

Image courtesy of Frosts Landscape Partnership



## Ropemaker Place London

**Year:** 2009

**Architect / Specifier:** Gensler Associates

**Contractor:** Mace Group

**Roofing Contractor:** Rock Complete Waterproofing

**Size:** 7,000m<sup>2</sup>

**System Used:** PermaTEC System with IKOgreen  
Intensive Roof Garden



## Severn Trent Centre **Coventry**

Year: 2010

Architect / Specifier: Webb Gray and Partners

Contractor: BAM Construction UK Ltd

Roofing Contractor: BriggsAmasco Ltd

Size: 5,000m<sup>2</sup>

System Used: PermaTEC System





# Healthcare



## Pinderfields Hospital Wakefield

Year: 2009/2010

Architect / Specifier: BDP Sheffield

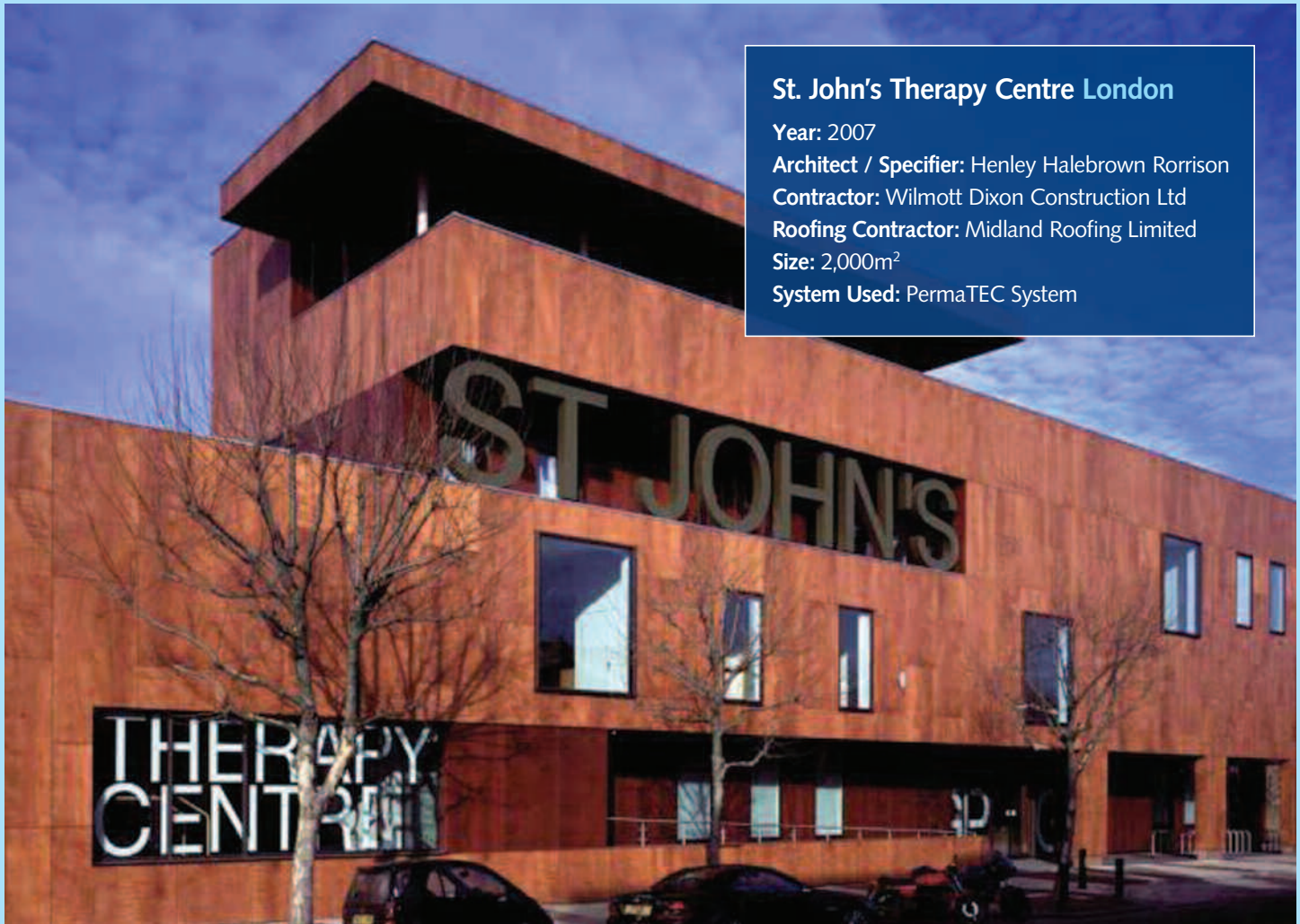
Contractor: Balfour Beatty Construction Ltd

Roofing Contractor: Prater Limited

Size: 16,000m<sup>2</sup>

System Used: PermaTEC System





## St. John's Therapy Centre London

**Year:** 2007

**Architect / Specifier:** Henley Halebrown Rorrison

**Contractor:** Wilmott Dixon Construction Ltd

**Roofing Contractor:** Midland Roofing Limited

**Size:** 2,000m<sup>2</sup>

**System Used:** PermaTEC System



## Queen Elizabeth Hospital Birmingham

**Year:** 2008

**Architect / Specifier:** BDP Sheffield

**Contractor:** Balfour Beatty Construction Ltd

**Roofing Contractor:** Rock Complete Waterproofing

**Size:** 3,000m<sup>2</sup>

**System Used:** PermaTEC System



# Residential

## Lumière Apartments Manchester

Year: 2005

Architect / Specifier: Kinetic Architects

Contractor: West Properties

Roofing Contractor: Rock Complete Waterproofing

Size: 1,200m<sup>2</sup>

System Used: PermaTEC System



## Granary Wharf Leeds

Year: 2007

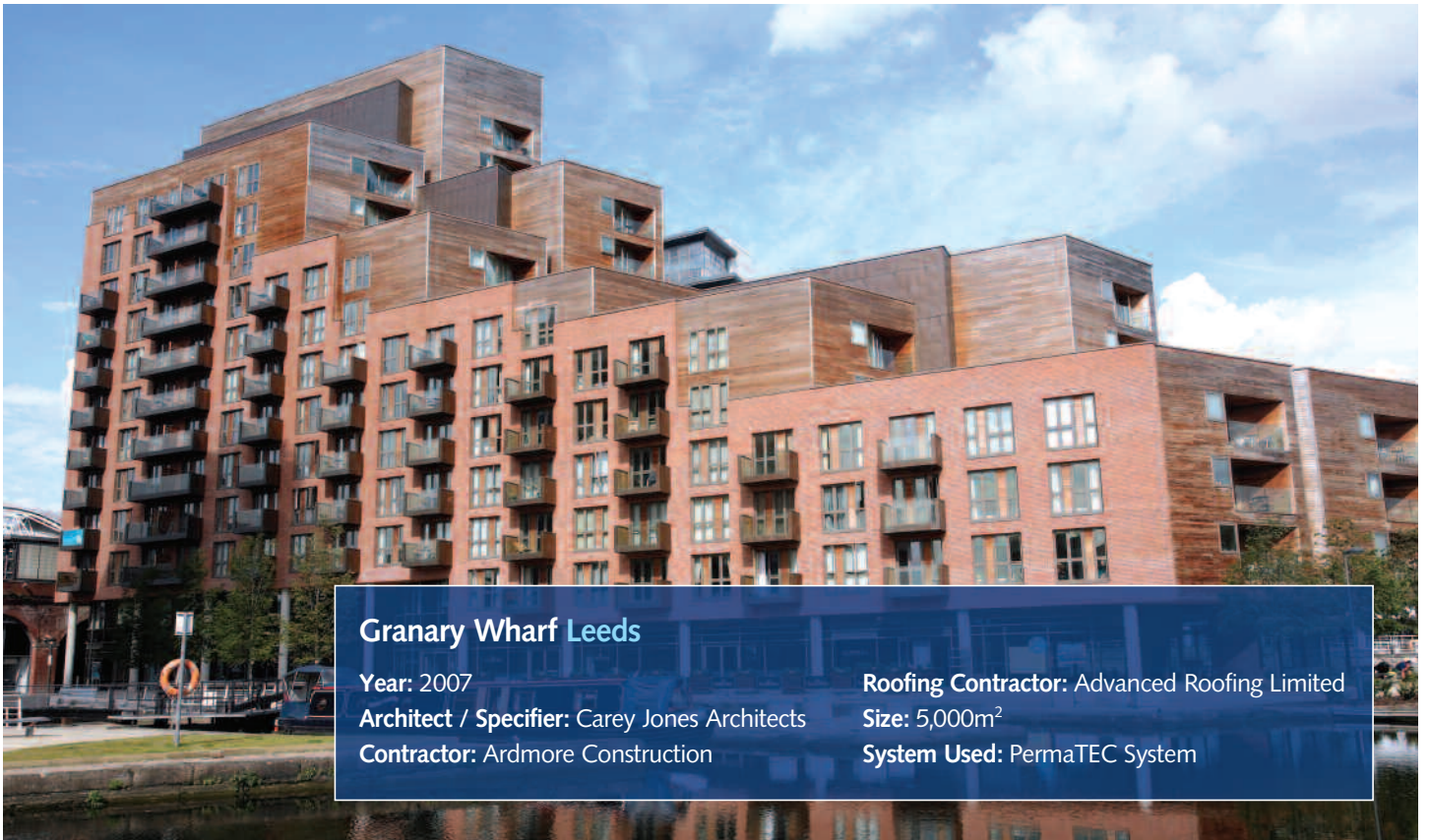
Architect / Specifier: Carey Jones Architects

Contractor: Ardmore Construction

Roofing Contractor: Advanced Roofing Limited

Size: 5,000m<sup>2</sup>

System Used: PermaTEC System





## The Henson London

**Year:** 2010

**Architect / Specifier:** Tate & Hindle

**Contractor:** Ardmore Construction

**Roofing Contractor:** Rio Asphalt & Paving Co Ltd

**Size:** 2,000m<sup>2</sup>

**System Used:** PermaTEC System





# Hotels & Leisure

## Casa Hotel Chesterfield

**Year:** 2011

**Architect / Specifier:** Carey Jones Architects

**Contractor:** Miller Construction (UK) Ltd

**Roofing Contractor:** Advanced Roofing Limited

**Size:** 1,800m<sup>2</sup>

**System Used:** PermaTEC System







### The Marriot Hotel Lingfield

**Year:** 2009

**Architect / Specifier:** EPR Architects

**Contractor:** Kier

**Roofing Contractor:** Knight Asphalte

**Size:** 2,000m<sup>2</sup>

**System Used:** PermaTEC System



### Premier Inn Doncaster

**Year:** 2011

**Architect / Specifier:** Cartwright Pickard Architects

**Contractor:** Multibuild (Balfour Beatty)

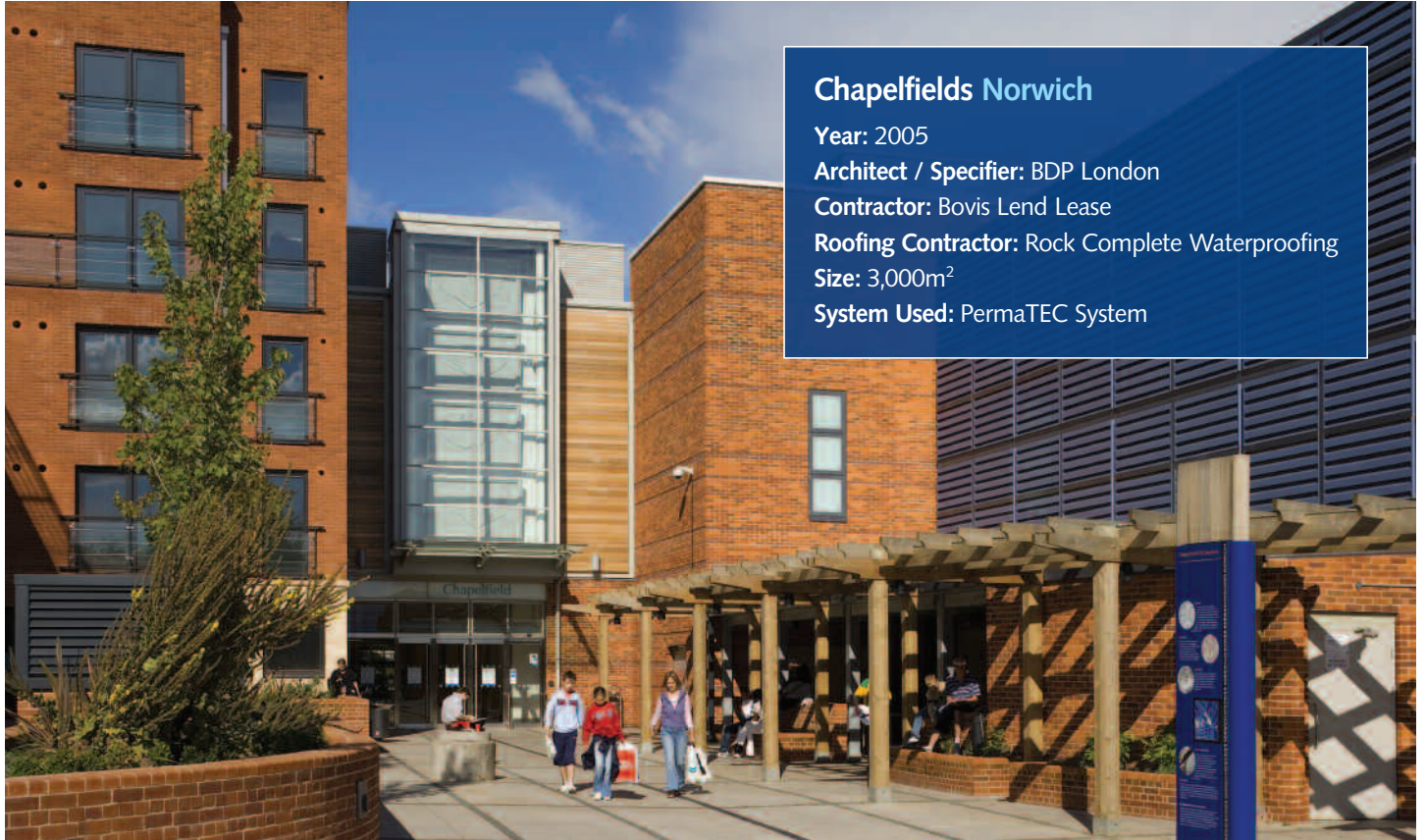
**Roofing Contractor:** Advanced Roofing Limited

**Size:** 1,200m<sup>2</sup>

**System Used:** PermaTEC System with IKOgreen  
Extensive Green Roof



# Shopping Centres



## Chapelfields Norwich

**Year:** 2005

**Architect / Specifier:** BDP London

**Contractor:** Bovis Lend Lease

**Roofing Contractor:** Rock Complete Waterproofing

**Size:** 3,000m<sup>2</sup>

**System Used:** PermaTEC System



## The Elements Livingston

**Year:** 2008

**Architect / Specifier:** BDP (Glasgow & London)

**Contractor:** Miller Construction (UK) Ltd

**Roofing Contractor:** BriggsAmasco Ltd

**Size:** 15,000m<sup>2</sup>

**System Used:** PermaTEC System





## Stratford City Shopping Centre London

**Year:** 2011

**Architect / Specifier:** Fletcher Priest Architects Ltd

**Contractor:** Westfield Group

**Roofing Contractor:** Rock Complete Waterproofing, BriggsAmasco Ltd, Knight Asphalte

**Size:** 50,000m<sup>2</sup>

**System Used:** PermaTEC System with IKOgreen Biodiverse Brown Roof



An aerial photograph of a modern building with a green roof. The roof is covered in various green plants and trees. A large white title is overlaid on the top half of the image.

# Leading the way for over a century

As budget and regulatory pressure builds on professionals within the construction industry, so too does the requirement to work with a manufacturer who offers the widest choice of waterproofing solutions and a comprehensive range of added value services.

The service and technical support offered to the industry by IKO is an integral part of our product supply, and forms the cornerstone of a partnership between manufacturer, installer, specifier and client. No other manufacturer or supplier of waterproofing systems can match the combination of comprehensive product range, assured quality, free of charge technical support, and the peace of mind offered by IKO to all parties involved with the project.

**IKO's objective is nothing less than to remain the first choice of architects, main contractors, roofing contractors and building owners who demand the very best.**





## Internationally Renowned

IKO is part of the IKO Group, the largest manufacturer of bituminous waterproofing products in the world.

## Unparalleled Track Record

We have been making high quality bituminous waterproofing products in the UK for over a century.

## Investing in the UK

IKO is proud to manufacture its waterproofing solutions in the UK and continues to invest in new plant, machinery and people, with over 250 employees nationwide.

## The UK Market Leader

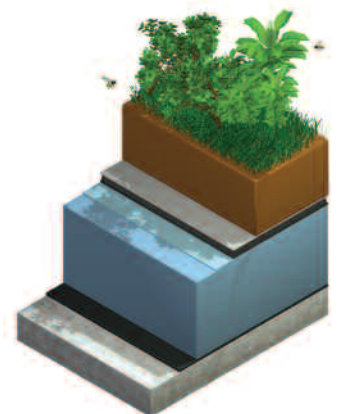
For decades, architects, contractors and building owners who refuse to compromise on waterproofing have chosen our products to protect their buildings.

## Performance Guaranteed

The PermaTEC hot melt system is fully covered by a choice of comprehensive, meaningful guarantees, ensuring long-term peace of mind.

## Green Credentials

IKO has set the standard by tackling the three prime environmental impacts of hot melt systems; the carbon footprint of delivery to site, excessive product packaging and on site energy consumption. Indeed, this commitment to protecting the environment remains constant across our portfolio of waterproofing solutions.





## IKO is accredited to:

- ISO 9001: Manufacturing and Management Systems for Flat Roofing Systems
- ISO 14001: Environmental Management Systems
- Building Confidence (Achilles) Accredited



### IKO PLC

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