



**FLAME FREE**  
WATERPROOFING SYSTEMS

[AXTER.CO.UK](http://AXTER.CO.UK)

# WELCOME TO AXTER

We innovate beyond the ordinary, re-imagine what's possible and endeavour to inspire positive change in the way roofs are designed, waterproofed and used. We waterproof differently.

We are a creative team of waterproofing design and technology specialists that share a passion for innovation. For more than 30 years curiosity has been driving us to deliver excellence to our customers and compelling us to reshape the future of roof waterproofing and sustainable roof design.

We specialise in Reinforced Bitumen Membrane (RBM), Hot Melt, Single Ply and Cold Applied Liquid Waterproofing systems, complemented by green roof, blue roof, Solar PV and multi functional sustainable roof system finishes, that safeguard compatibility and single source responsibility.

Collaborate with Axter, and realise your roof's true potential.



## **FIRE SAFETY**

is one of the most important factors affecting the design, construction, refurbishment, and maintenance of flat roof waterproofing systems within the built environment.

Fire safety within all buildings, especially those classified as complex and high rise, is not a new risk. Past events have highlighted serious concerns in the fire safety regulatory system and the need to build a safer future, resulting in a comprehensive and independent review of The Building Regulations and Fire Safety.

Our duty of care and commitment to research and development has driven the creation of an innovative range of Flame Free waterproofing systems. These will meaningfully reduce fire risk during building construction, refurbishment and maintenance phases, and usher in a new era of Flame Free specification and installation technique.

## FIRE PERFORMANCE

is an essential system requirement that must be considered when designing and constructing all buildings. Fire performance can be separated into two significant areas; the first relating to flat roof system regulatory fire resistance – in terms of penetration and spread of flame from the outside of the building – and the second relating to fire risk reduction during system installation.

Reducing risk and improving building safety in relation to fire during construction is of paramount importance. The flat roof system assembly and application method is crucial to exceeding compliance and ensuring all flat roof waterproofing systems conform to statutory fire safety requirements as set out in The Building Regulations.





## REDUCING RISK

of fire during system installation with Flame Free waterproofing system technology, provides those responsible for fire safety with the confidence to specify flat roof waterproofing systems that are watertight, durable and fully compliant with the latest edition of Approved Document B - Fire Safety.

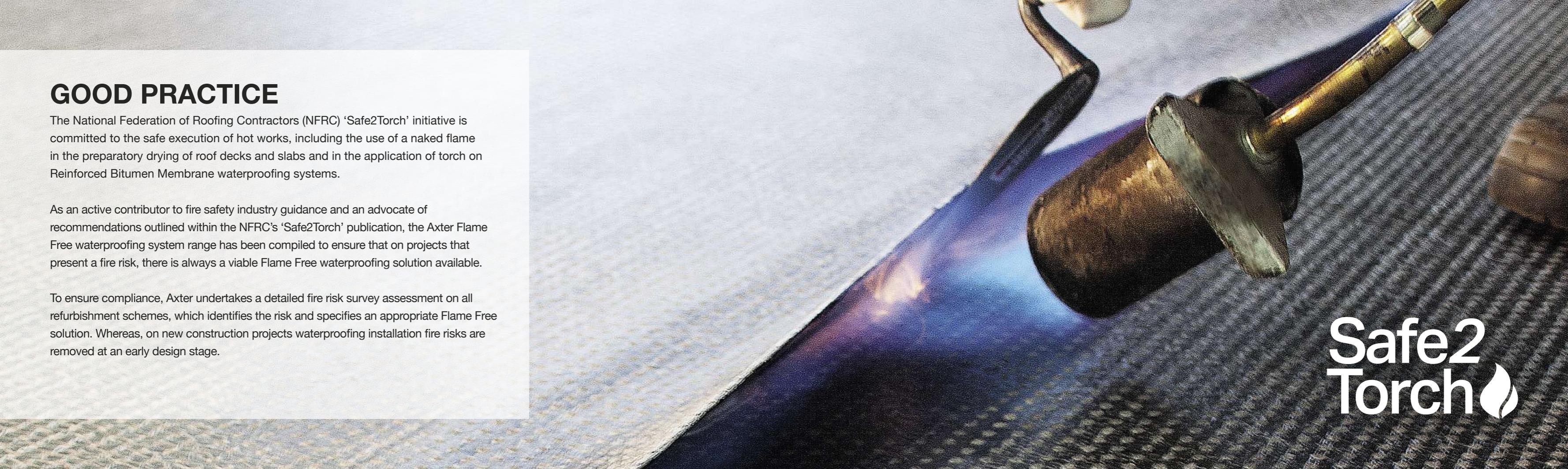
Axter's innovative range of Flame Free waterproofing eliminates the use of naked flame application methods, in favour of Neo-Bitumen® Flame Free, hot air activated, hot air welded, cold bonded, mechanically fixed and cold liquid applied waterproofing system installation techniques.

## GOOD PRACTICE

The National Federation of Roofing Contractors (NFRC) 'Safe2Torch' initiative is committed to the safe execution of hot works, including the use of a naked flame in the preparatory drying of roof decks and slabs and in the application of torch on Reinforced Bitumen Membrane waterproofing systems.

As an active contributor to fire safety industry guidance and an advocate of recommendations outlined within the NFRC's 'Safe2Torch' publication, the Axter Flame Free waterproofing system range has been compiled to ensure that on projects that present a fire risk, there is always a viable Flame Free waterproofing solution available.

To ensure compliance, Axter undertakes a detailed fire risk survey assessment on all refurbishment schemes, which identifies the risk and specifies an appropriate Flame Free solution. Whereas, on new construction projects waterproofing installation fire risks are removed at an early design stage.



Safe2  
Torch 

# OUR RANGE

Our Flame Free waterproofing systems are manufactured for use on constructions, including detailing, where the use of a naked flame is prohibited.

## MECHANICALLY FIXED **EXCEL® FM**

single layer mechanically fixed warm roof bitumen waterproofing system with 100% Flame Free installation.

## HOT AIR WELDED **ECOFLEX®**

single ply systems offer fast economical installation, design flexibility and a completely Flame Free installation without any need for hot works.

## COLD BONDED **FORCE® ADH**

a robust fast track warm roof bitumen waterproofing system engineered for cold bonded installation without the need for traditional hot bitumen adhesives.

## HOT AIR ACTIVATED **NEO-BITUMEN®**

a new multi purpose bitumen material providing security and durability with unrivaled Flame Free installation

## COLD LIQUID APPLIED **STARCOAT®**

a versatile range of fast curing, flexible, elastomeric liquid waterproofing systems installed without the need for flame or heat application.

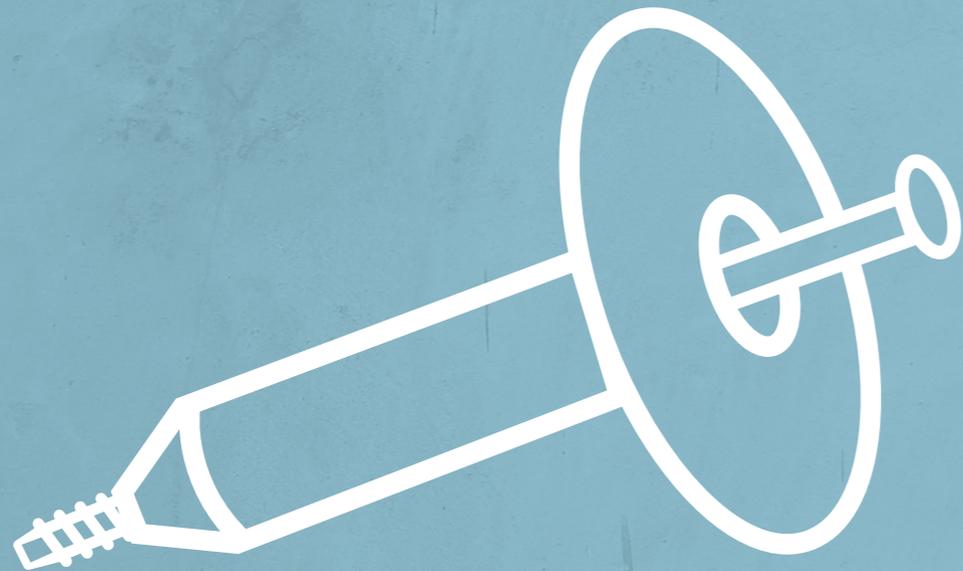
## FLAME FREE

waterproofing systems have been developed for specialist roofing contractors that are members of Axter's Axtershield & Alliance Installer accreditation schemes and skilled in Flame Free system installation techniques.

Accredited installer operatives must have attended Flame Free upskilling courses developed by experienced flat roofing specialists and delivered by highly skilled roofing system tutors with a minimum Level 3 award in Education and Training, and many years of on site managerial experience.

System installation by skilled operatives safeguards client confidence and provides the reassurance of long term insured system guarantees, indemnifying the building owner's risk in the unlikely event of a system failure arising from material, design, workmanship or installer insolvency.





## MECHANICALLY FIXED EXCEL<sup>®</sup> FM

A premium single layer mechanically fixed Reinforced Bitumen Membrane (RBM). Manufactured with Axter's unique ALPA<sup>®</sup> polymeric binder.

Our most technologically advanced Reinforced Bitumen Membrane system, delivering speed, strength and long term weathertight performance.

# PERFORMANCE

has been key to the development of Excel® FM Flame Free mechanically fixed bitumen waterproofing system. Excel® FM Flame Free establishes an advancement in single layer mechanically fixed ALPA® polymer modified bitumen technology, combining the durability performance benefits of bitumen with the speed and cost efficiency of single ply synthetic membranes.

The Excel® FM capsheet provides exceptional age resistance characteristics, mechanical strength, point load resistance and dimensional stability due to its composite reinforced core and unique ALPA® binder. Technological development and advanced polymer modification create a highly flexible robust bitumen material, with a safe and secure response to hot air welding methods at laps and joints, providing a clear performance alternative to single ply synthetic membranes.



# BENEFITS

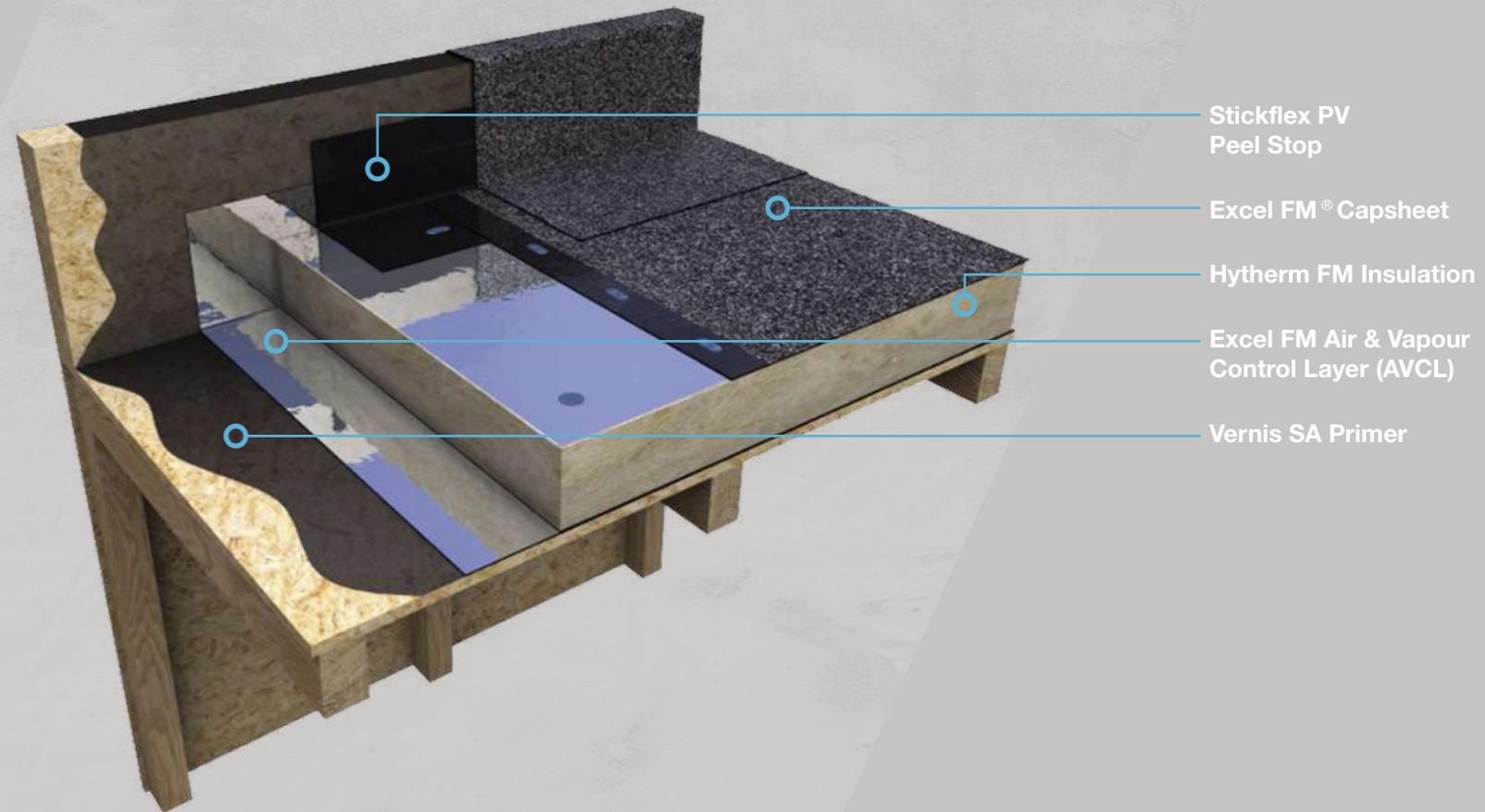
- » 100% Flame Free System
- » BBA Agrément Certification – certificate number 94/3037 PS1
- » Classified Broof(t4) in accordance with BS EN 13501-5: 2005 fire classification of construction products and building elements
- » 30 year insured system guarantee covering materials, design, workmanship and insolvency
- » Fast single layer application
- » ISO 9001 and 14001 accredited

# EXCEL<sup>®</sup> FM

Flame Free single layer mechanically fixed waterproofing system.

Excel FM is British Board of Agrément (BBA) certified, is accepted by all third party building warranty providers, has a service life in excess of 60 years and achieves a 30 year insured guarantee covering materials, design, workmanship and insolvency.

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## HOT AIR ACTIVATED NEO-BITUMEN®

A new bitumen material with unrivaled flame free installation performance. Neo-Bitumen® waterproofing systems include multi layer warm roofs, multi and single layer inverted roofs combined with living roof, blue roof and sustainable roof system finishes, all installed 100% flame free.

Equally suited to new construction and refurbishment projects, Neo-Bitumen® waterproofing systems offer a completely flame free specification option and deliver outstanding durability, high flexibility and workability in the toughest conditions.

## PERFORMANCE

has been key to the development of Neo-Bitumen® Flame Free waterproofing systems.

Developed for specialist roofing contractors skilled in Reinforced Bitumen Membrane installation that seek new robust waterproofing systems engineered to eliminate gas torches, reduce fire risk and achieve a safe and clean installation. Neo-Bitumen® Flame Free waterproofing systems combine the product confidence entrusted in bitumen systems with modern Flame Free innovation.



# BENEFITS

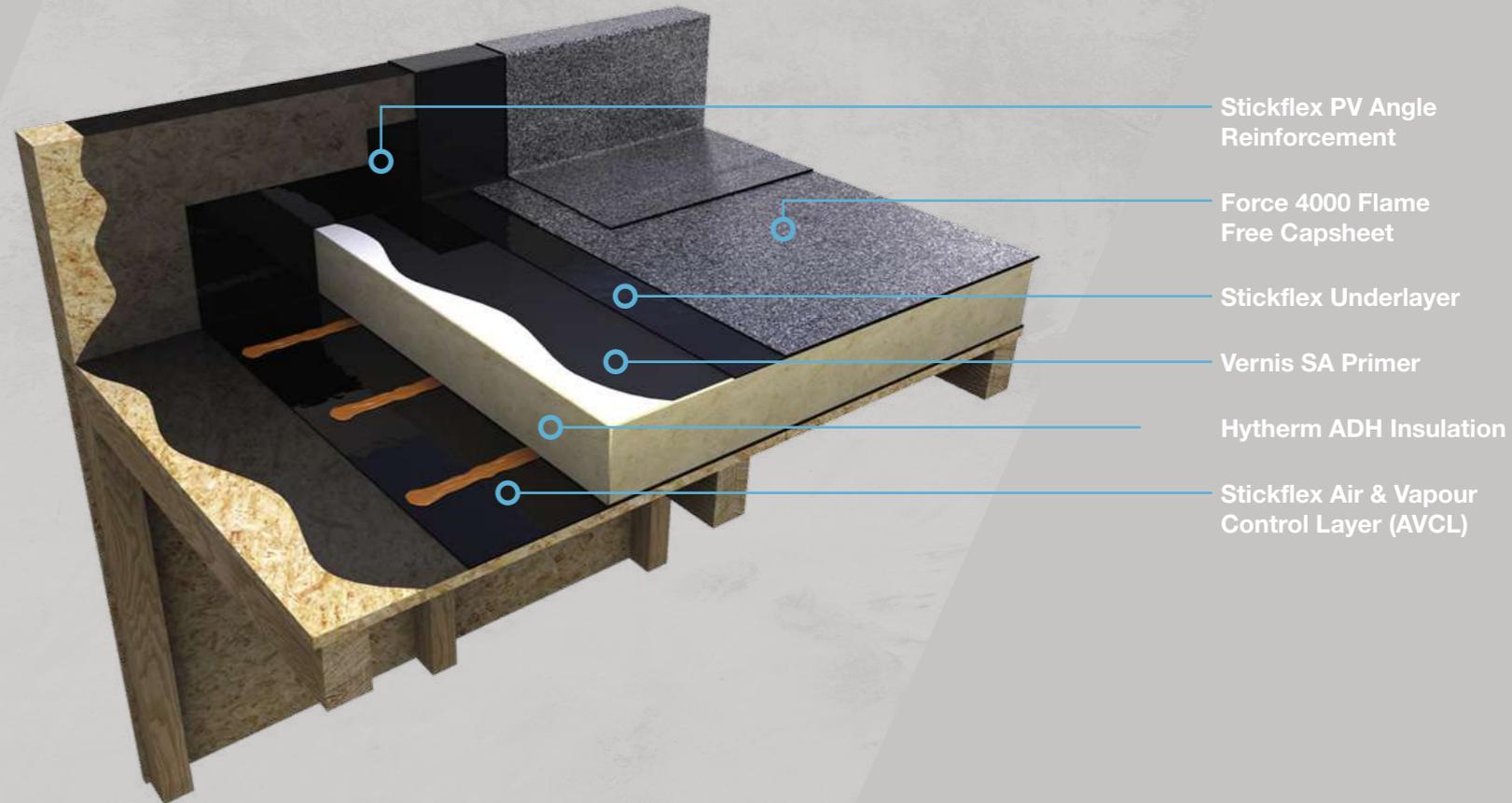
- » 100% Flame Free System
- » BBA Agrément Certification – certificate number 15/5222
- » Classified Broof(t4) in accordance with BS EN 13501-5: 2005 fire classification of construction products and building elements
- » 25 year insured system guarantee covering materials, design, workmanship and insolvency
- » Living roof and blue roof accredited systems
- » ISO 9001 and 14001 accredited

# FORCE® NEO-BITUMEN®

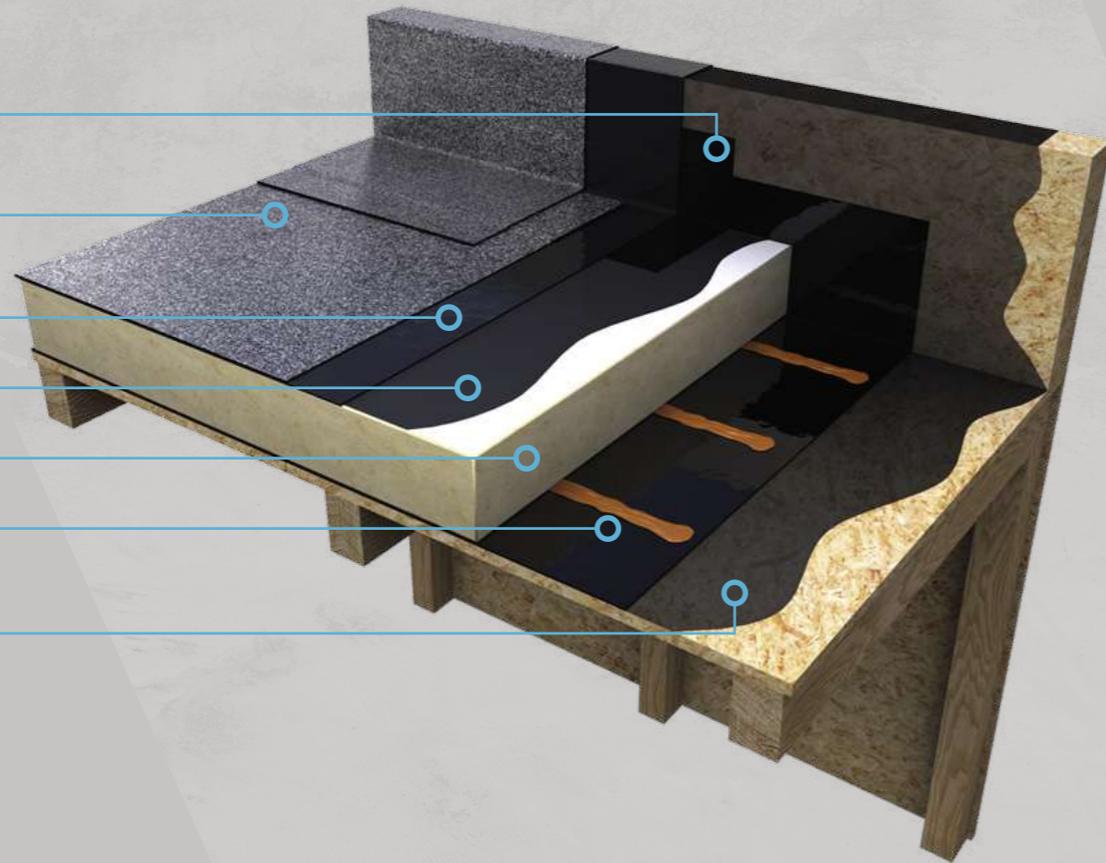
Flame Free multi layer waterproofing system.

Force® Neo-Bitumen® is British Board of Agrément (BBA) certified, is accepted by all third party building warranty providers, has a service life in excess of 50 years and achieves a 25 year insured guarantee covering materials, design, workmanship and insolvency.

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- Stickflex PV Angle Reinforcement
- Hyranger 40 Flame Free Capsheet
- Stickflex Underlayer
- Vernis SA Primer
- Hytherm ADH Insulation
- Stickflex Air & Vapour Control Layer (AVCL)
- Vernis SA Primer



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## HYRANGER® NEO-BITUMEN®

Flame Free multi layer waterproofing system.

Hyranger® Neo-Bitumen® is British Board of Agrément (BBA) certified, is accepted by all third party building warranty providers, has a service life in excess of 50 years and achieves a 20 year insured guarantee covering materials, design, workmanship and insolvency.

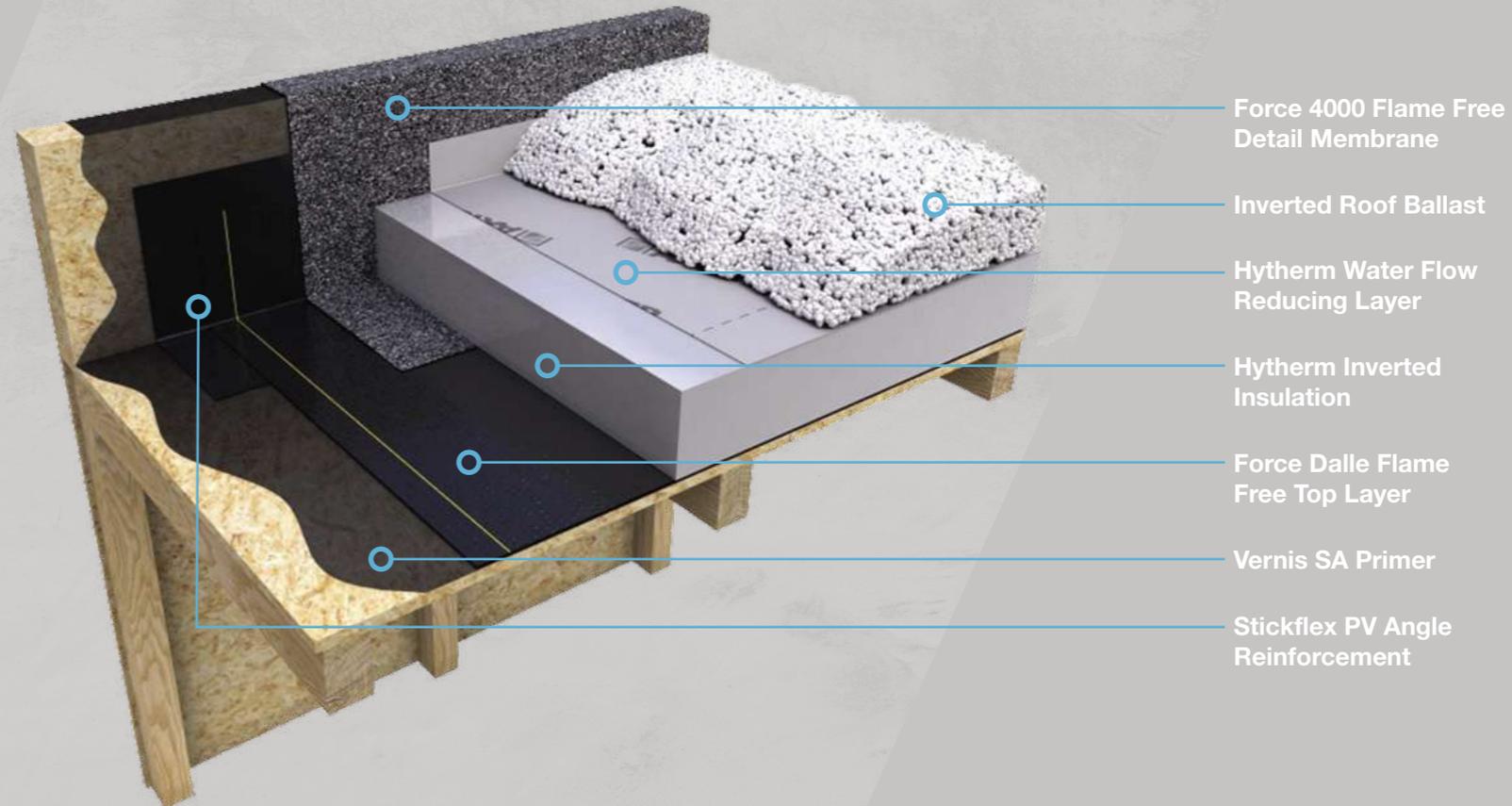


# FORCE DALLE® NEO-BITUMEN®

Flame Free single layer inverted roof waterproofing system.

Force Dalle® Neo-Bitumen® is certified for use in a warm or inverted roof assembly with living and blue roof finishes, is British Board of Agrément (BBA) certified, is accepted by all third party building warranty providers, has a service life in excess of 50 years and achieves a 20 year insured guarantee covering materials, design, workmanship and insolvency.

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Force 4000 Traffic  
Flame Free Capsheet

Living Roof Flnish

Stickflex PV Angle  
Reinforcement

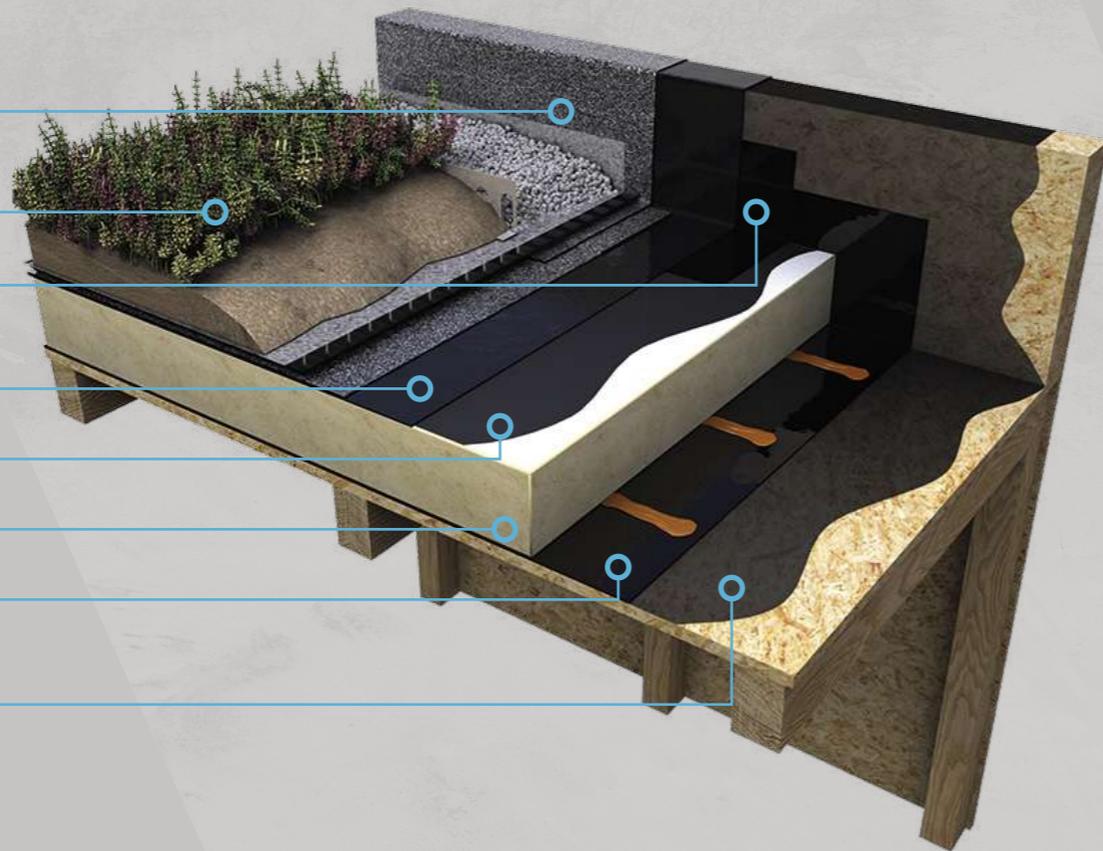
Stickflex Underlayer

Vernis SA Primer

Hytherm ADH Insulation

Stickflex Air & Vapour  
Control Layer (AVCL)

Vernis SA Primer



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## CITYFLOR® NEO-BITUMEN®

Flame Free living roof waterproofing system.

Suitable for application with Axter extensive, intensive, biodiverse (brown) and modular living roof finishes, British Board of Agrément (BBA) certified, accepted by all third party building warranty providers, has a service life in excess of 50 years and achieves a 20 year insured guarantee covering materials, design, workmanship and insolvency.

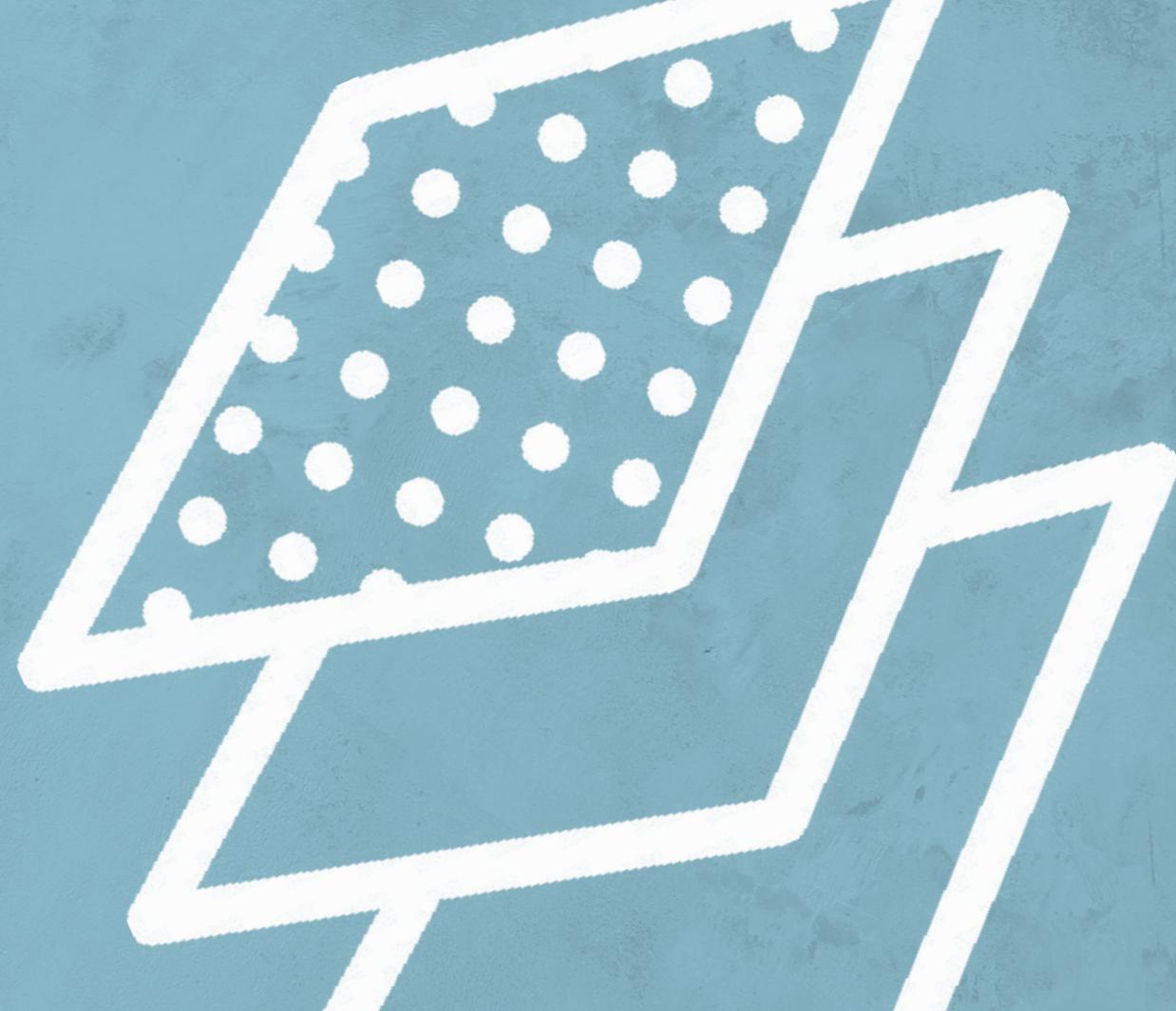


# COLD BONDED FORCE<sup>®</sup> ADH

Cold bonded, fast track, single layer or multi layer warm roof bitumen waterproofing system.

Engineered for cold bonded installation without the need for hot works and naked flame gas torch tooling.

Force<sup>®</sup> ADH Flame Free establishes a new generation of advanced cold bonded bitumen membrane technology, combining synthetic cold adhesive with hot air welding techniques that eliminates the need for traditional hot bitumen bonding compounds.





## PERFORMANCE

has been key to the development of the FORCE® ADH flame free cold bonded waterproofing system.

The Force® ADH capsheet provides exceptional mechanical strength, point load resistance and dimensional stability due to its composite reinforced core. Technological development and improved percentages of SBS, than would ordinarily occur in a standard polymer modified bitumen membrane, creates a highly flexible robust material, with a safe and secure response to hot air welding methods at laps and joints.

The Force® ADH Flame Free waterproofing system has achieved independent BBA Agrément Certification as documented in certificate No 15/5222, is certified Broof(t4) in accordance with BS EN 13501-5: 2005 fire classification of construction products and building elements and has a durability and service life expectancy in excess of 50 years.

- » 100% Flame Free System
- » BBA Agrément Certification – certificate number 15/5222
- » Classified Broof(t4) in accordance with BS EN 13501-5: 2005 fire classification of construction products and building elements
- » 20 year insured system guarantee covering materials, design, workmanship and insolvency
- » Single layer or multi layer application
- » ISO 9001 and 14001 accredited

# BENEFITS

Stickflex ADH Underlayer

Force 4000 Flame Free Detail Membrane

Force ADH Flame Free Capsheet

Vernis SA Primer

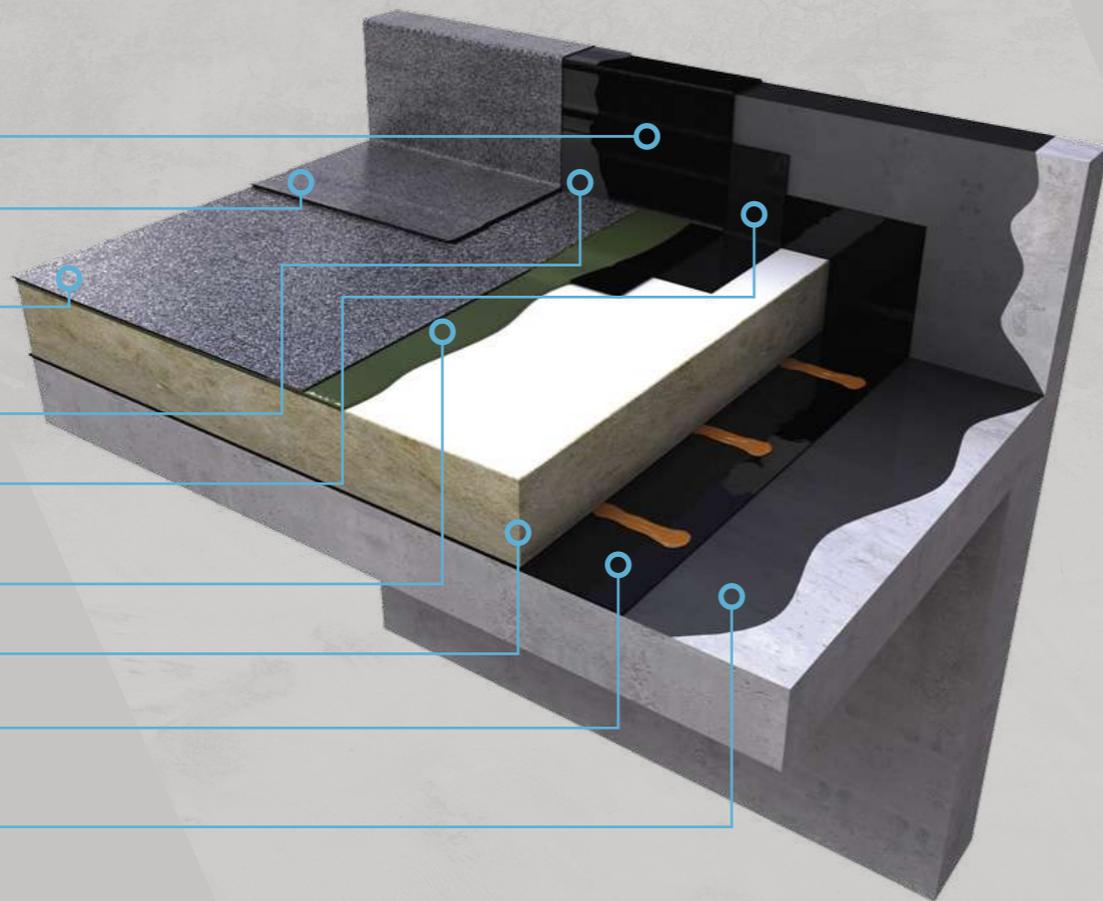
Stickflex PV Angle Reinforcement

ADH Adhesive

Hytherm ADH Insulation

Stickflex Air & Vapour Control Layer (AVCL)

Vernis SA Primer



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## FORCE® ADH FLAME FREE

Cold bonded single layer or multi layer waterproofing system

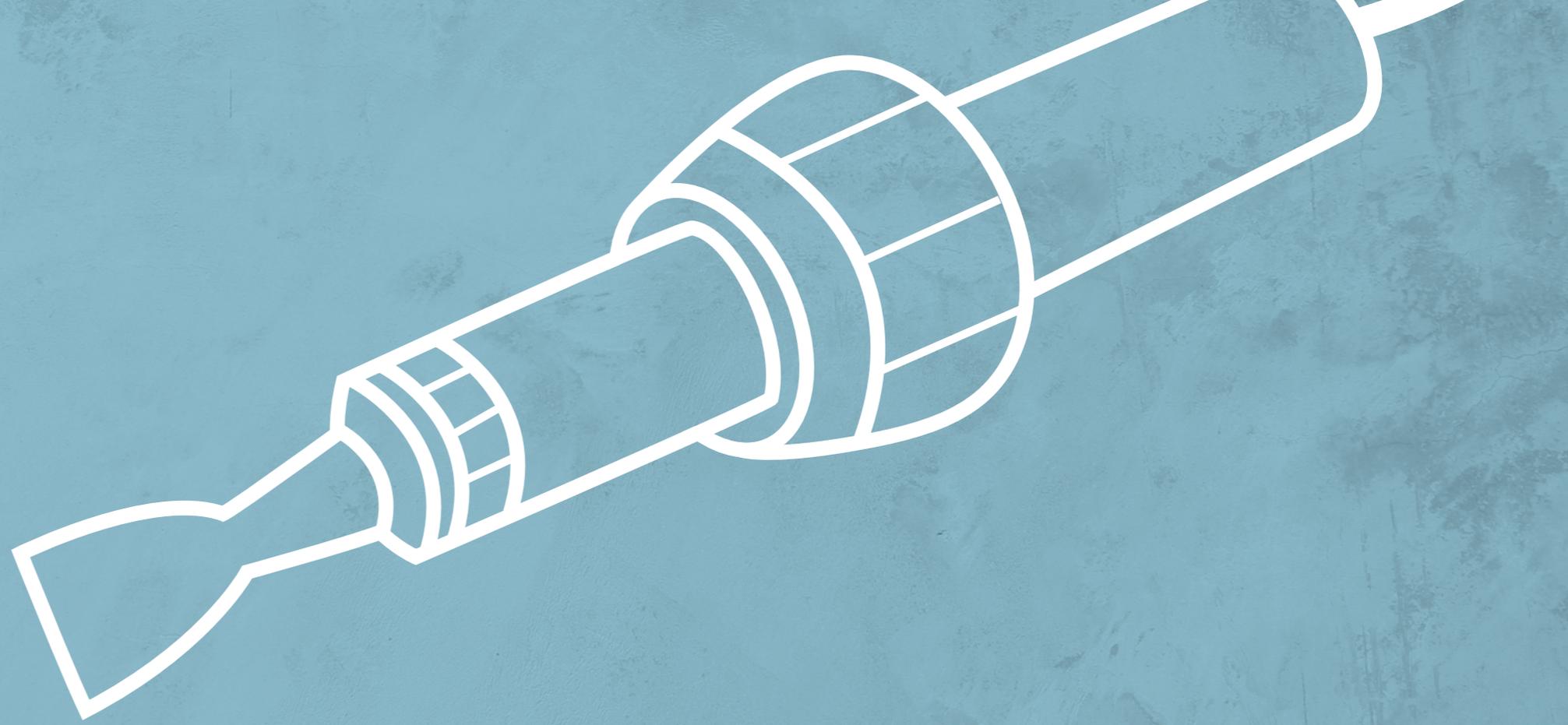
Engineered to be fully compatible with Neo-Bitumen® Flame Free membranes, British Board of Agrément (BBA) certified, accepted by all third party building warranty providers, has a service life in excess of 50 years and achieves a minimum 20 year insured guarantee covering materials, design, workmanship and insolvency.

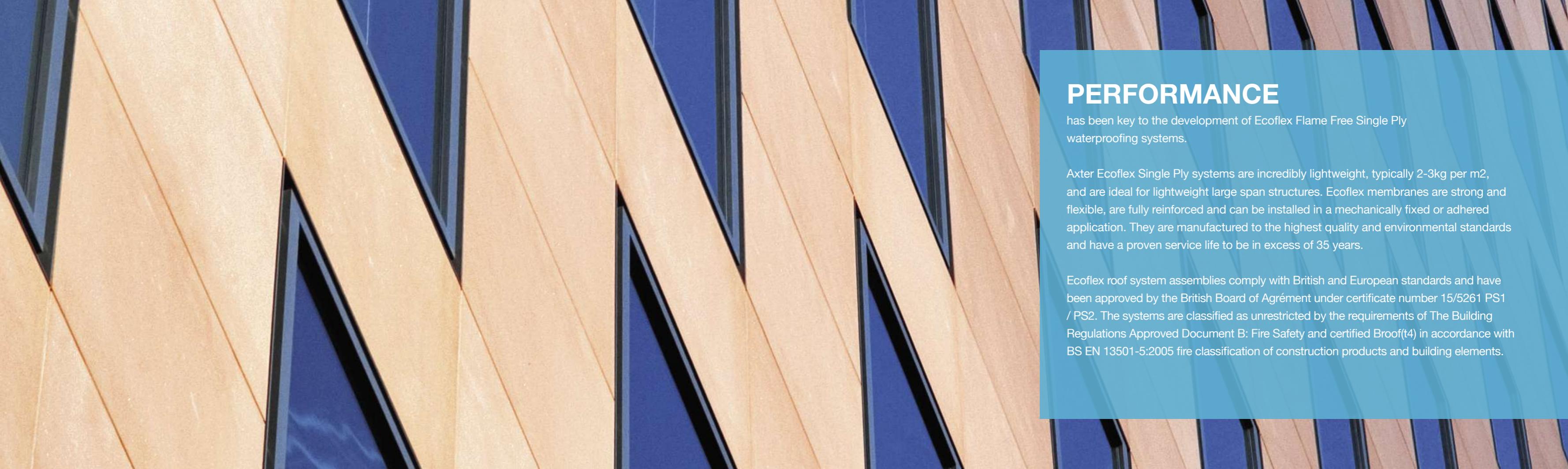


## HOT AIR WELDED ECOFLEX®

Economical, aesthetically versatile and lightweight flame free waterproofing, Axter Single Ply waterproofing membranes have been engineered to provide economic and ecological performance benefits.

Axter's Ecoflex Single Ply membrane systems are manufactured from flexible PVC-p (polyvinyl chloride) that has excellent hot air welding characteristics, puncture resistance, can withstand extreme weather conditions and provides a cost effective waterproofing solution for all roof types.





## PERFORMANCE

has been key to the development of Ecoflex Flame Free Single Ply waterproofing systems.

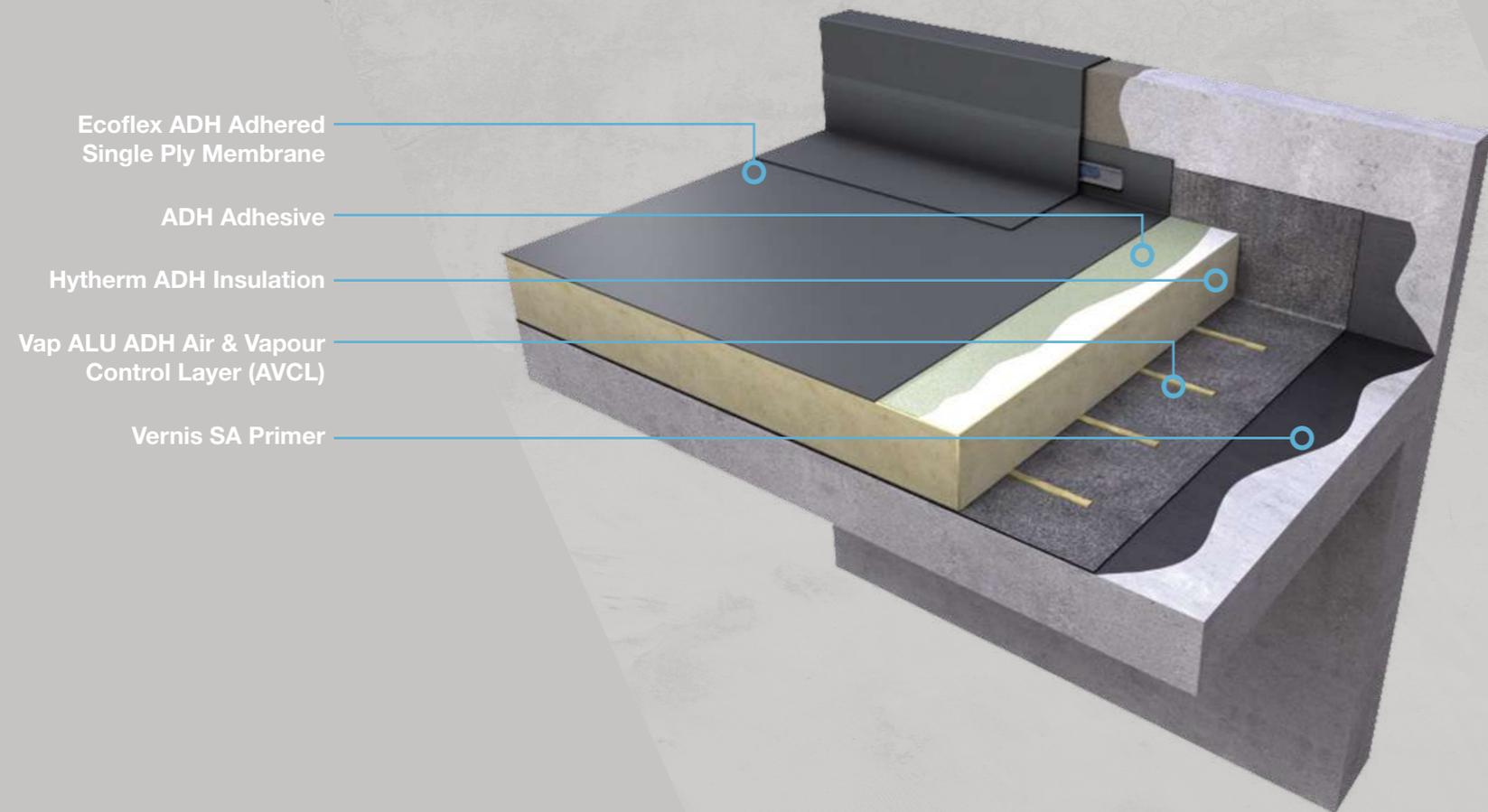
Axter Ecoflex Single Ply systems are incredibly lightweight, typically 2-3kg per m<sup>2</sup>, and are ideal for lightweight large span structures. Ecoflex membranes are strong and flexible, are fully reinforced and can be installed in a mechanically fixed or adhered application. They are manufactured to the highest quality and environmental standards and have a proven service life to be in excess of 35 years.

Ecoflex roof system assemblies comply with British and European standards and have been approved by the British Board of Agrément under certificate number 15/5261 PS1 / PS2. The systems are classified as unrestricted by the requirements of The Building Regulations Approved Document B: Fire Safety and certified Broof(t4) in accordance with BS EN 13501-5:2005 fire classification of construction products and building elements.

- » 100% Flame Free System
- » BBA Agrément Certification – certificate number 1 5/5261 / PS2
- » Classified Broof(t4) in accordance with BS EN 13501-5: 2005 fire classification of construction products and building elements
- » 20 year insured system guarantee covering materials, design, workmanship and insolvency
- » Single layer mechanically fixed or adhered solutions
- » ISO 9001 and 14001 accredited

# BENEFITS





## ECOFLEX® ADH FLAME FREE

Adhered Single Ply waterproofing system.

Ecoflex® ADH is British Board of Agrément (BBA) certified, is accepted by all third party building warranty providers such as LABC and NHBC, has a service life in excess of 35 years and achieves a minimum 20 year insured guarantee covering materials, design, workmanship and insolvency.

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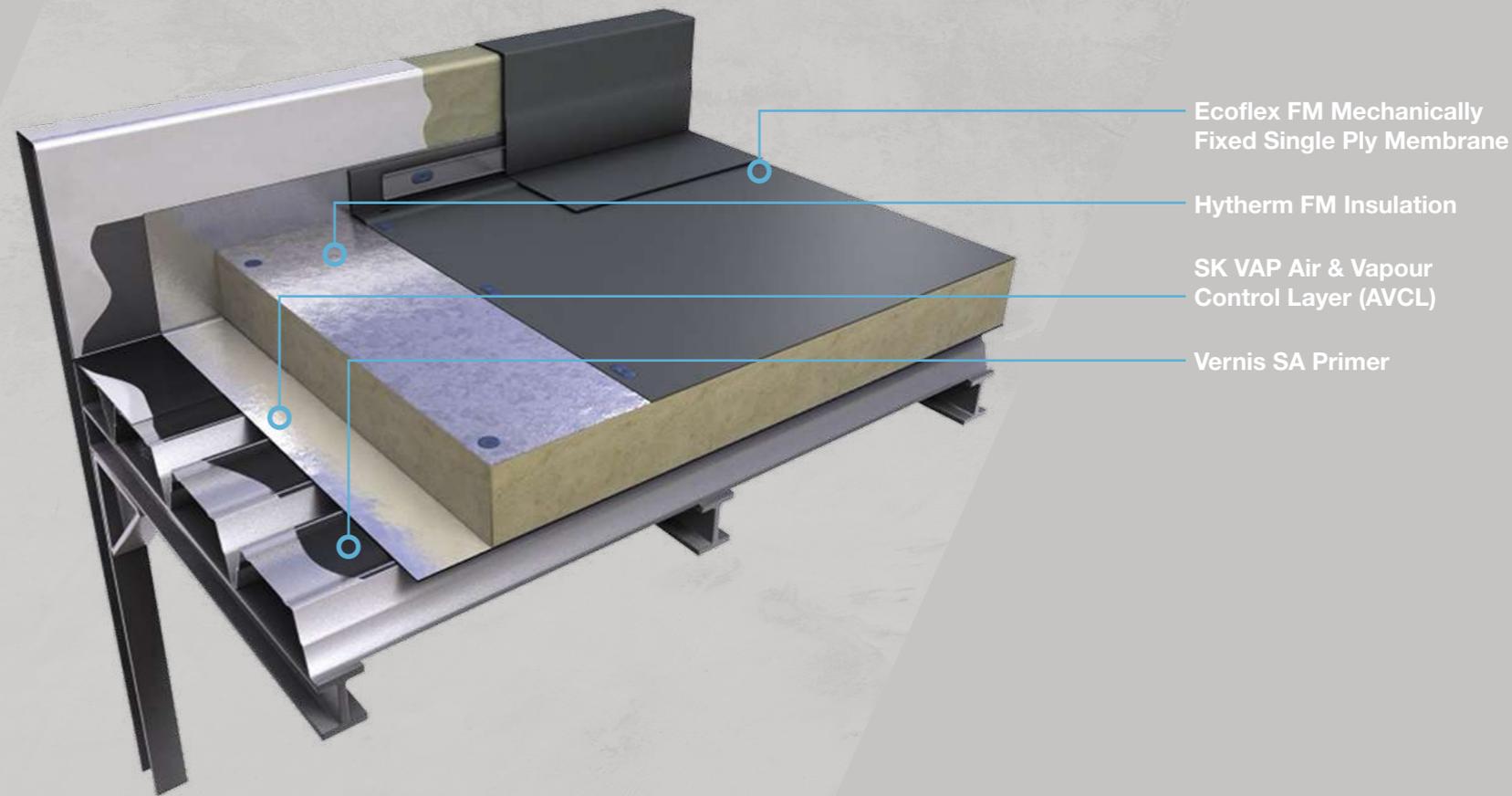


# ECOFLEX® FM FLAME FREE

Mechanically fixed Single Ply waterproofing system.

Ecoflex® FM is British Board of Agrément (BBA) certified, is accepted by all third party building warranty providers such as LABC and NHBC, has a service life in excess of 35 years and achieves a minimum 20 year insured guarantee covering materials, design, workmanship and insolvency.

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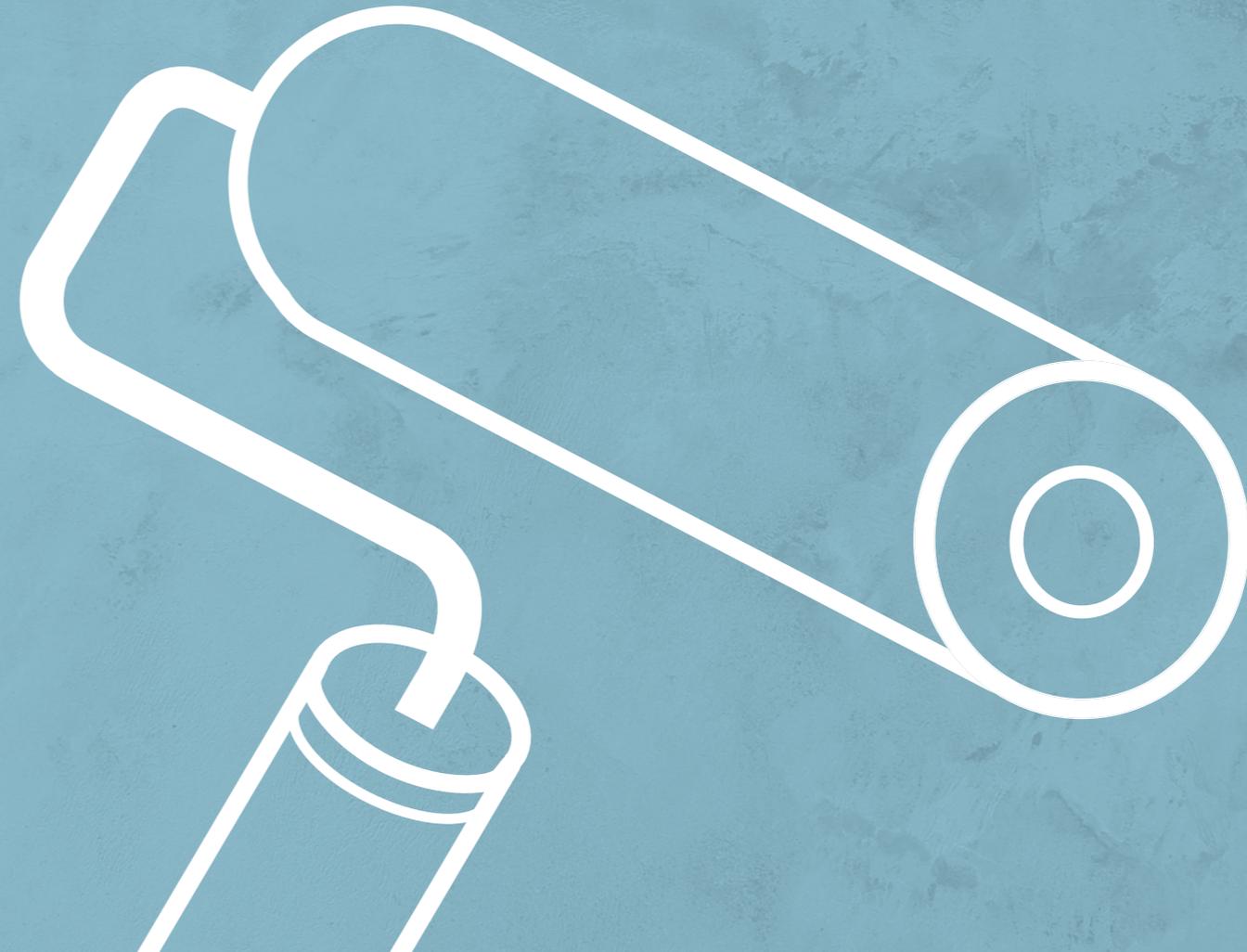


# COLD LIQUID APPLIED STARCOAT®

Fast curing, hard wearing and versatile waterproofing installed without need for naked flame.

Axter's Starcoat® range of Cold Applied Liquid Waterproofing systems are durable and aesthetically versatile solutions.

Starcoat® Cold Applied Liquid Waterproofing is installed fully bonded without need for mechanical fixing or heat welding and achieves a secure seamless finish with no joints or breaks. Starcoat® Cold Applied Liquid Waterproofing systems require no naked flame or hot works and are suitable for use in restricted spaces or areas where a naked flame is prohibited.





## PERFORMANCE

has been key to the development of Starcoat® Flame Free cold applied liquid waterproofing systems.

Axter Starcoat® Cold Applied Liquid Waterproofing systems are engineered to provide a fast curing, flexible, elastomeric waterproof membrane capable of following the contours of any roof shape and intricate detail. They have a long lifespan with a service life in excess of 25 years in exposed conditions. Starcoat® systems are installed completely Flame Free and offer a highly versatile and secure waterproofing solution for roofs, terraces, balconies, walkways and car parks as well as a practical solution for intricate detailing.

Axter's cold liquid waterproofing system range incorporates polyurethane (PU), Starcoat® QC, and polymethyl methacrylate (PMMA), Starcoat® PMMA, resins suitable for both new build applications and the refurbishment of existing roofs. Cold liquid bitumen resin, Starcoat® R, is also available for Flame Free detailing use with Axter Reinforced Bitumen Membrane (RBM) systems.

- » 100% Flame Free System
- » BBA Agrément Certification – certificate number 13/5031 / PS1 and 16/5322 PS1
- » 20 year insured system guarantee covering materials, design, workmanship and insolvency

- » Zero fall accredited (Starcoat® PMMA)
- » Single or dual component systems
- » ISO 9001 and 14001 accredited

# BENEFITS

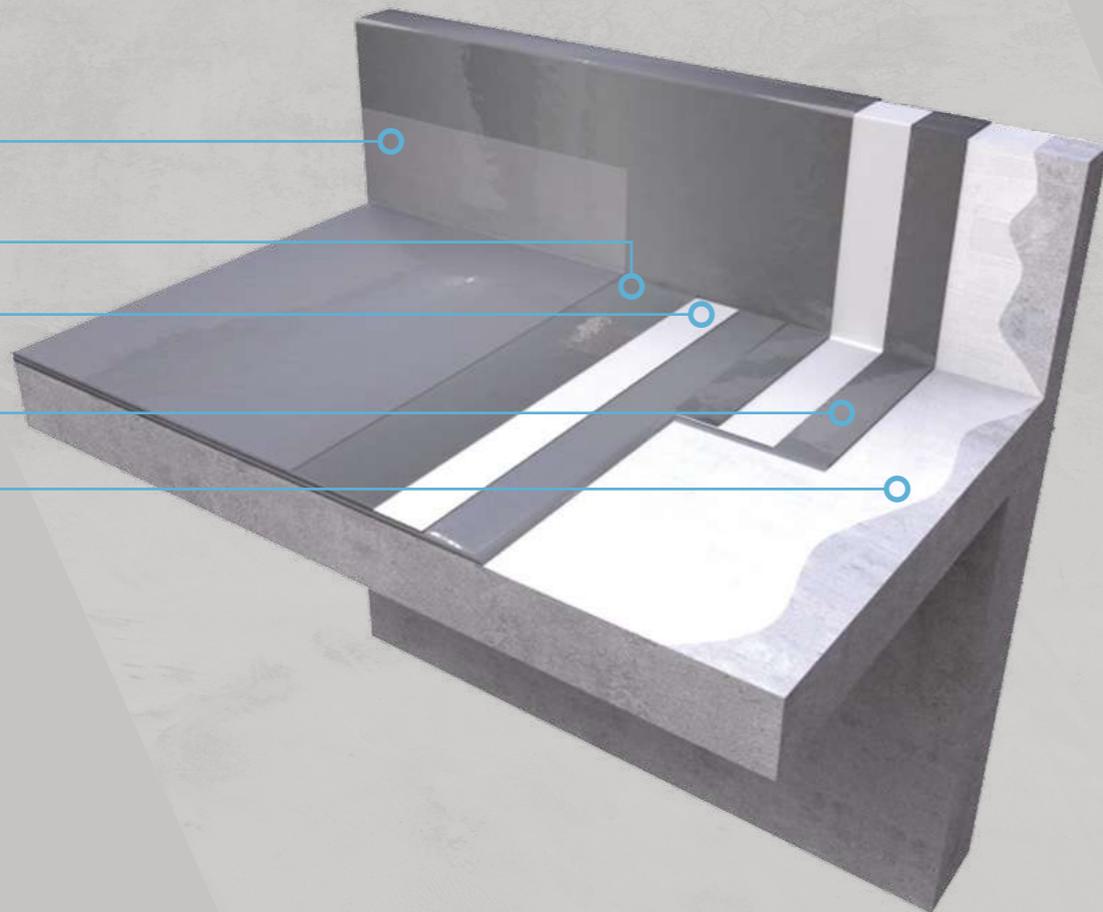
Starcoat PMMA  
Clear Sealer

Starcoat PMMA

Starcoat  
PMMA Fleece

Starcoat PMMA

Starcoat  
PMMA Primer



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## STARCOAT® PMMA FLAME FREE

Rapid cure, two component resin waterproofing system.

Starcoat® PMMA is British Board of Agrément (BBA) certified, is accepted by all third party building warranty providers such as LABC and NHBC, has a service life in excess of 25 years and achieves a minimum 20 year insured guarantee covering materials, design, workmanship and insolvency.



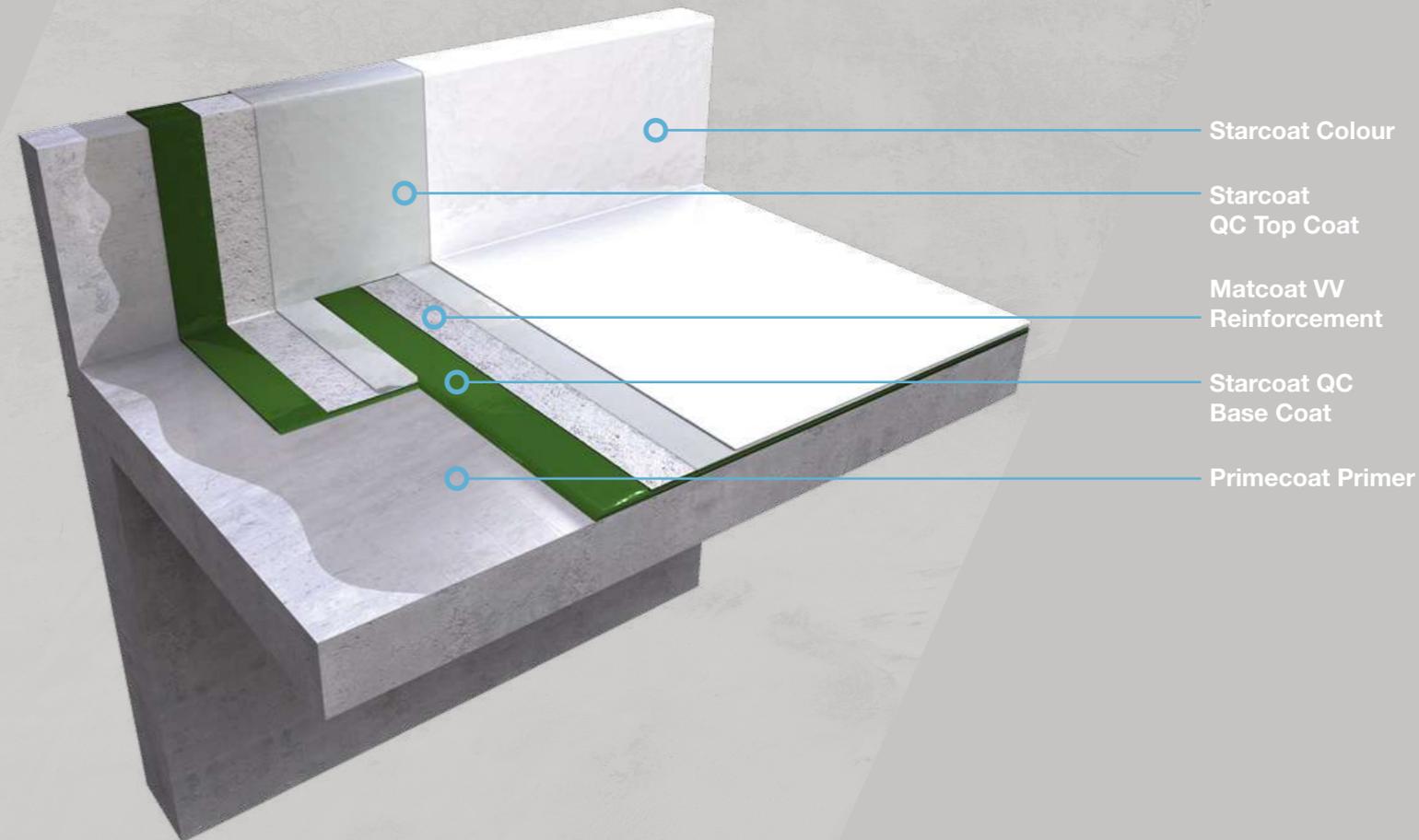
# STARCOAT® QC

Quick cure, single component polyurethane resin waterproofing system.

Starcoat® QC is British Board of Agrément (BBA) certified, is accepted by all third party building warranty providers such as LABC and NHBC, has a service life in excess of 25 years and achieves a 20 year insured guarantee covering materials, design, workmanship and insolvency.



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