



AXTER

FORCE® LINE

High performance SBS waterproofing

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AXTER

PROFESSIONAL roofing contractors demand professional materials from specialist manufacturers. Axter is one of the world's leading manufacturers of roofing products and systems with over 100 years experience of industrial waterproofing production. Axter specialises in the fabrication of high quality, cost effective bitumen membranes that offer unparalleled performance and durability worldwide.



BENEFITS

like high strength and durability make the Force Line system range a popular choice for professional roofers. Advantages of Axter torch on roofing systems are;

- Life expectancy in excess of 50 years (60 years with Alpa® binder products)
- Robust with excellent point load resistance and self healing properties
- High elasticity to accommodate structural movement
- SBS (Styrene Butadiene Styrene) provides superior bond strength
- Unique Alpa® binder provides advanced single layer performance
- Quick and simple installation and detailing
- Design flexibility with a wide range of aesthetic choices
- CE marked and British Standard (BS 8747:2007) compliant
- Approved Document B : Fire Safety compliant
- Enhanced ageing, weathering and UV resistance
- Flame free, self-adhesive and cold applied liquid options available



FIRE PERFORMANCE

is an essential consideration when designing and constructing all buildings. The fire resistance of the flat roof covering, in terms of penetration and spread of flame from the outside of the building, is crucial.

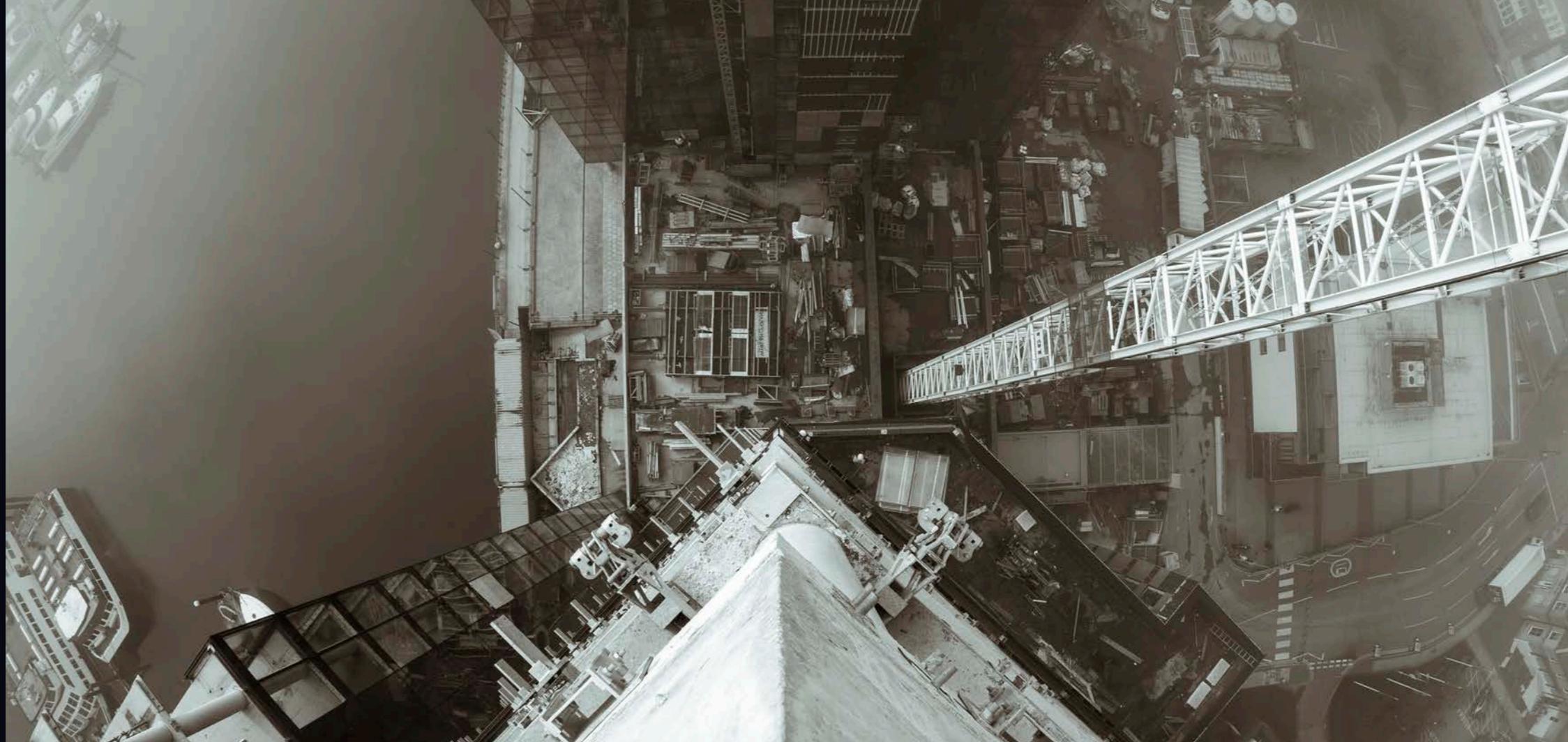
The latest edition of Approved Document B - Fire Safety has removed reference to the National Classification system set out in BS 476-3:2004 as the principal determinant of external fire performance for roofs and replaced it with the European Classification system set out in BS EN 13501-5.

Force Line (Solo) system assemblies comply with British and European standards, 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.



ELIMINATING RISK

and increasing fire safety during and post waterproofing installation forms part of Axter's unique approach. Neo-Bitumen® Flame Free membranes, Force® SA self adhesive membranes and Starcoat® R cold applied bitumen liquid detailing eliminate the need for torch-on naked flame installation. This is ideal for combustible substrates and in high risk detail and perimeter zones on new build or refurbishment projects.



CLIENT WARRANTIES

are delivered on all Force Line system projects when materials are purchased via a recognised partner stockist. These warranties are long term and provide complete reassurance to the client.

Force Line systems have been developed to safeguard client and contractor confidence and ensure the delivery of high quality, durable and cost-effective roofing solutions that meet the demands of all projects. Long term Axter warranties covering materials and labour are available when using Force Line systems up to a market leading period of 25 years.

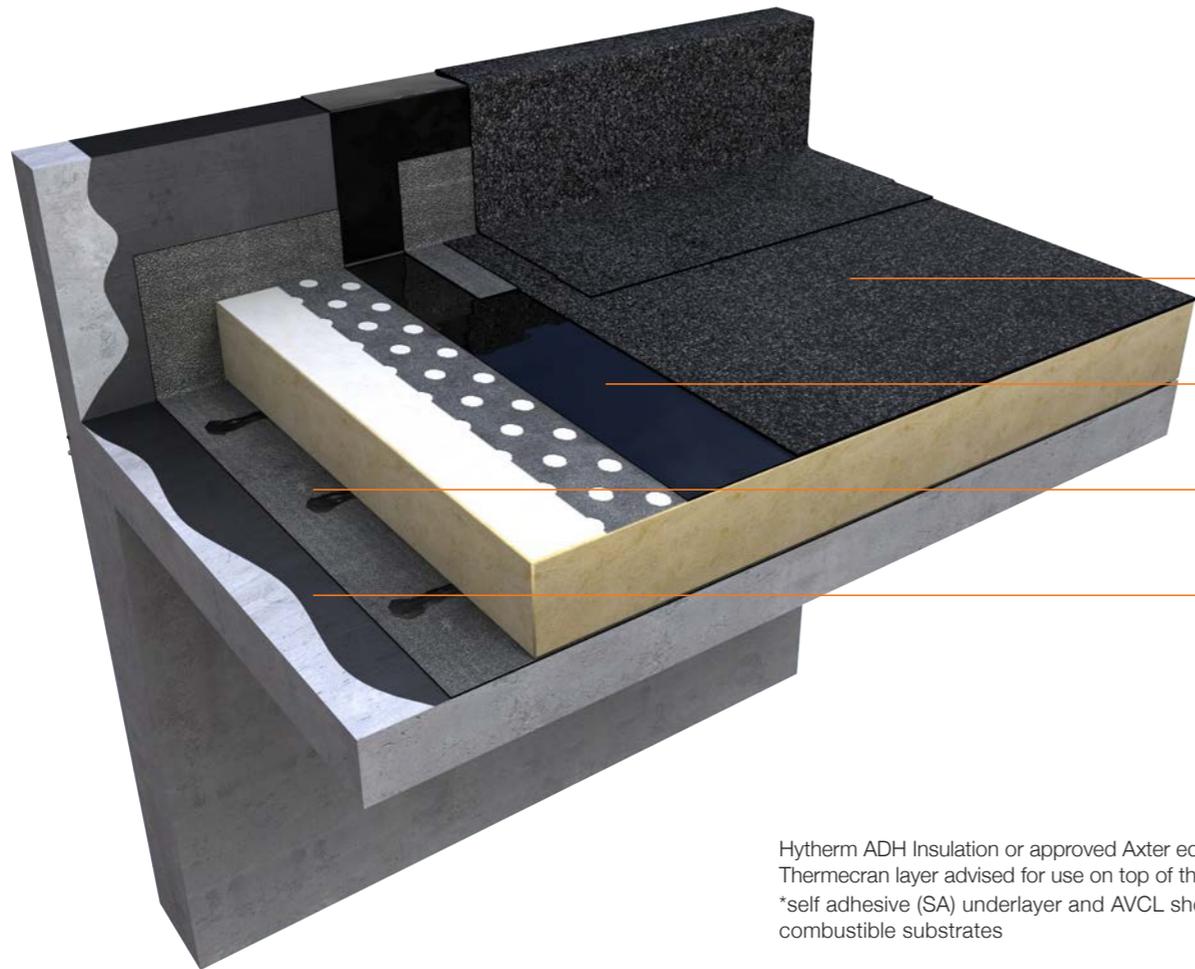


TORCH ON



FORCE[®] LINE

The Force Line torch on range has been specially manufactured for use on all roofing projects. High quality, proven and robust, the Force Line SBS polymer modified bitumen membranes offer excellent performance characteristics as part of a multi-layer system build up.



Hytherm ADH Insulation or approved Axter equivalent to be used.
Thermecran layer advised for use on top of the insulation
*self adhesive (SA) underlayer and AVCL should be used on combustible substrates

FORCE[®] LINE SBS

High performance SBS **multi-layer** waterproofing system

FORCE LINE SBS

FORCE LINE 2VV*

FORCE LINE 2S **or** FORCE LINE 2VV*

FORCE PRIME

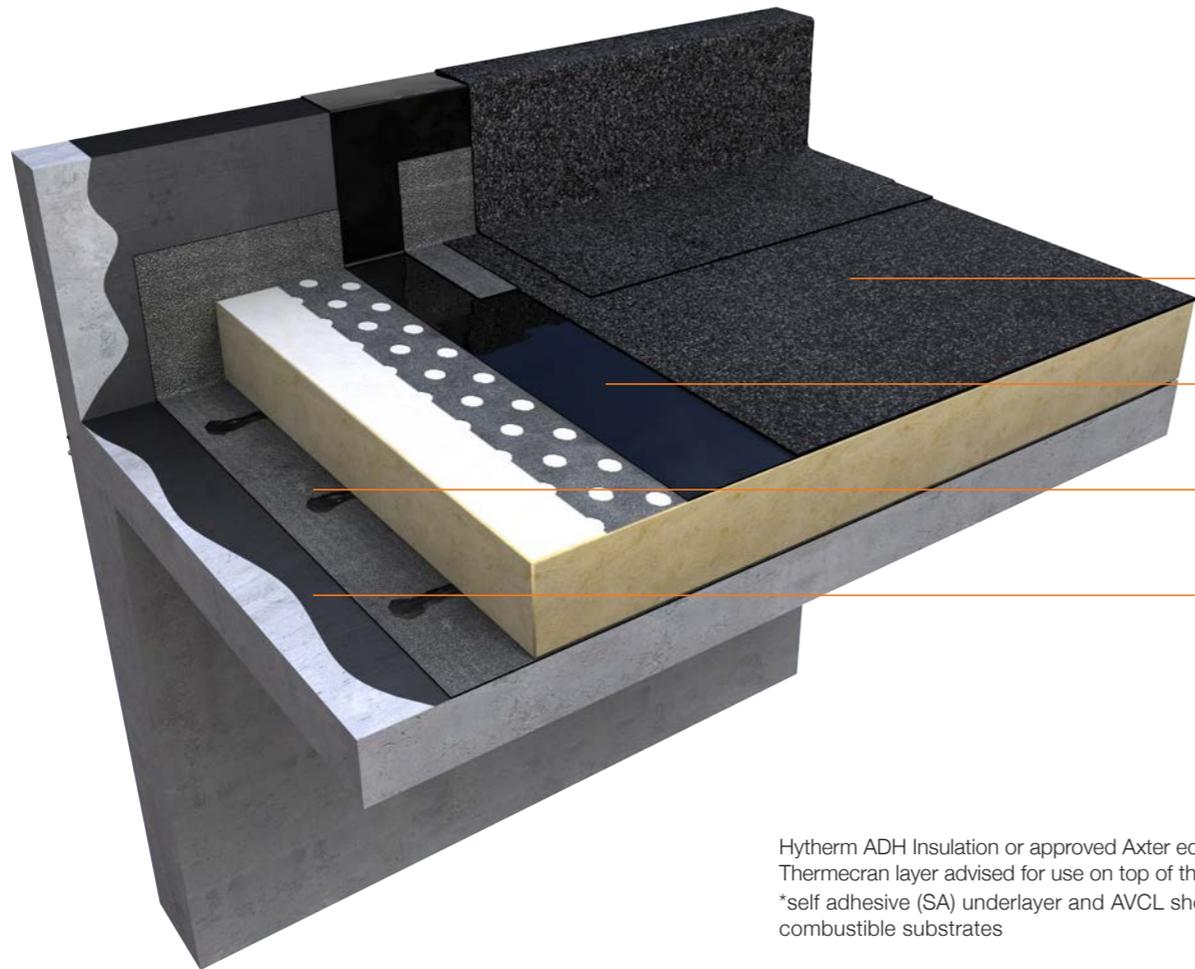
A cost effective multi-layer build up, Force Line SBS provides secure waterproofing, ideal for buildings where a 10 year material and labour warranty is sufficient.



Details can be completed with **Starcoat[®] R** flame free cold applied liquid waterproofing, contact Axter for more details.

10 YEAR
WARRANTY





Hytherm ADH Insulation or approved Axter equivalent to be used.
Thermecran layer advised for use on top of the insulation
*self adhesive (SA) underlayer and AVCL should be used on combustible substrates

FORCE[®] LINE 4.0

High performance SBS **multi-layer** waterproofing system

FORCE LINE 4.0 RE

FORCE LINE 2VV*

FORCE LINE 2S **or** FORCE LINE 2VV*

FORCE PRIME

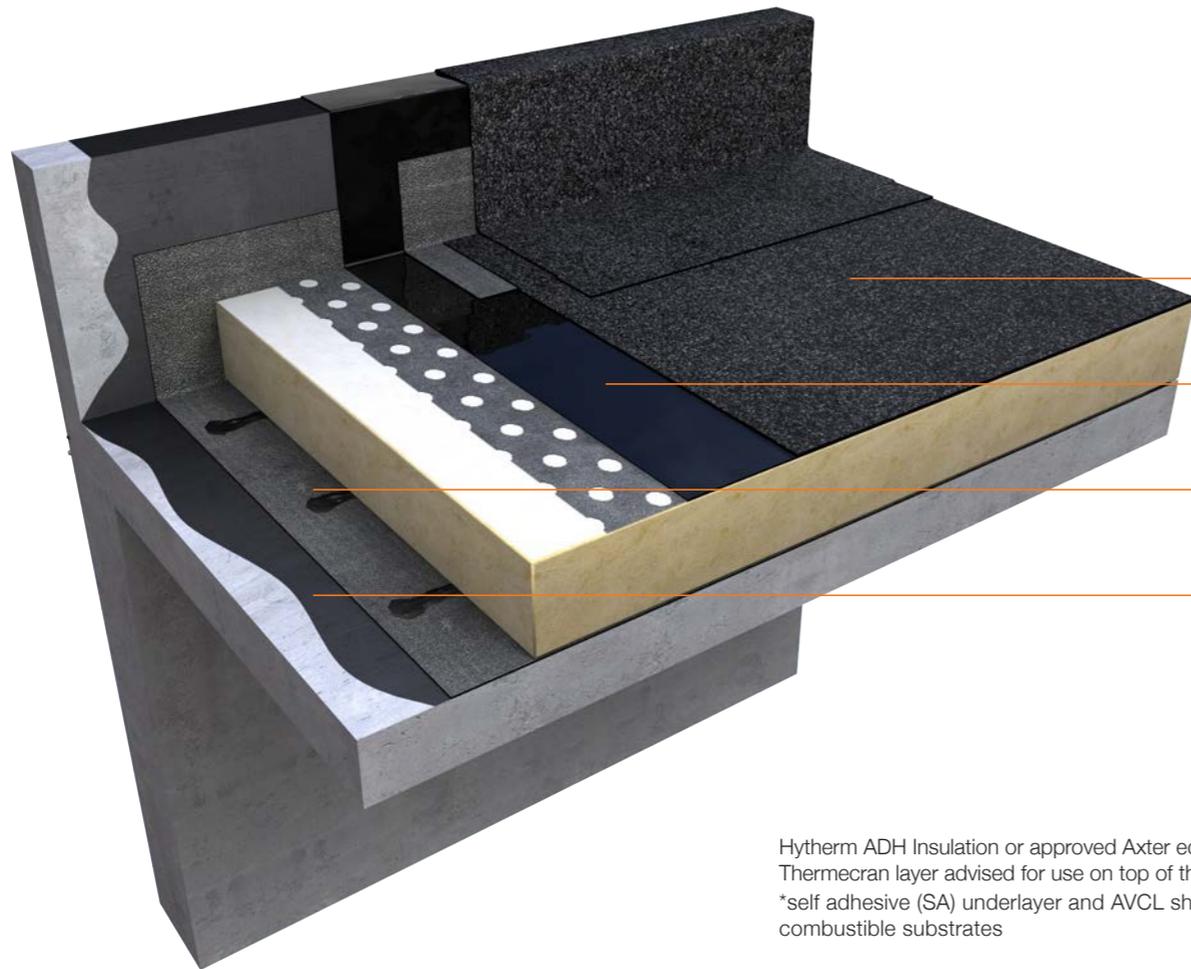
Increased material thickness and enhanced durability, the Force Line 4.0 RE capsheet provides a hard wearing finish to a multi-layer build up and achieves a 15 year material and labour system warranty.



Details can be completed with **Starcoat[®] R** flame free cold applied liquid waterproofing, contact Axter for more details.

15 YEAR
WARRANTY





Hytherm ADH Insulation or approved Axter equivalent to be used.
 Thermecran layer advised for use on top of the insulation
 *self adhesive (SA) underlayer and AVCL should be used on
 combustible substrates

FORCE[®] LINE 4.5

High performance SBS **multi-layer** waterproofing system

FORCE LINE 4.5 RE

FORCE LINE 2VV*

FORCE LINE 2S **or** FORCE LINE 2VV*

FORCE PRIME

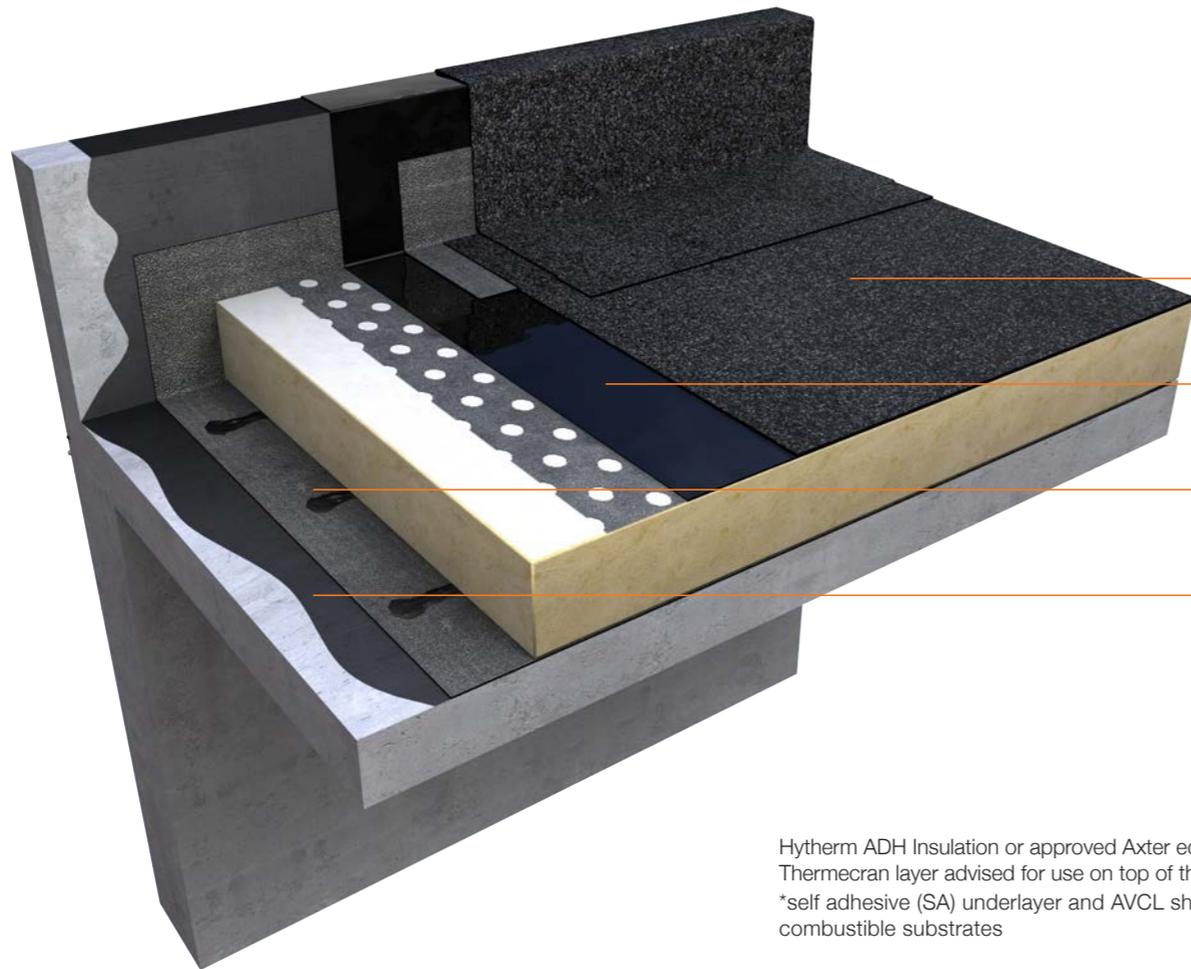
The thickest and most robust capsheet within the multi-layer waterproofing range, Force Line 4.5 achieves a 20 year material and labour system warranty as standard.



Details can be completed with **Starcoat[®] R** flame free cold applied liquid waterproofing, contact Axter for more details.

20 YEAR
 WARRANTY





Hytherm ADH Insulation or approved Axter equivalent to be used.
Thermecran layer advised for use on top of the insulation
*self adhesive (SA) underlayer and AVCL should be used on combustible substrates

FORCE[®] LINE 4.5

High performance SBS **multi-layer** waterproofing system

FORCE LINE 4.5 RE

FORCE LINE 3VV*

FORCE LINE 3VV*

FORCE PRIME

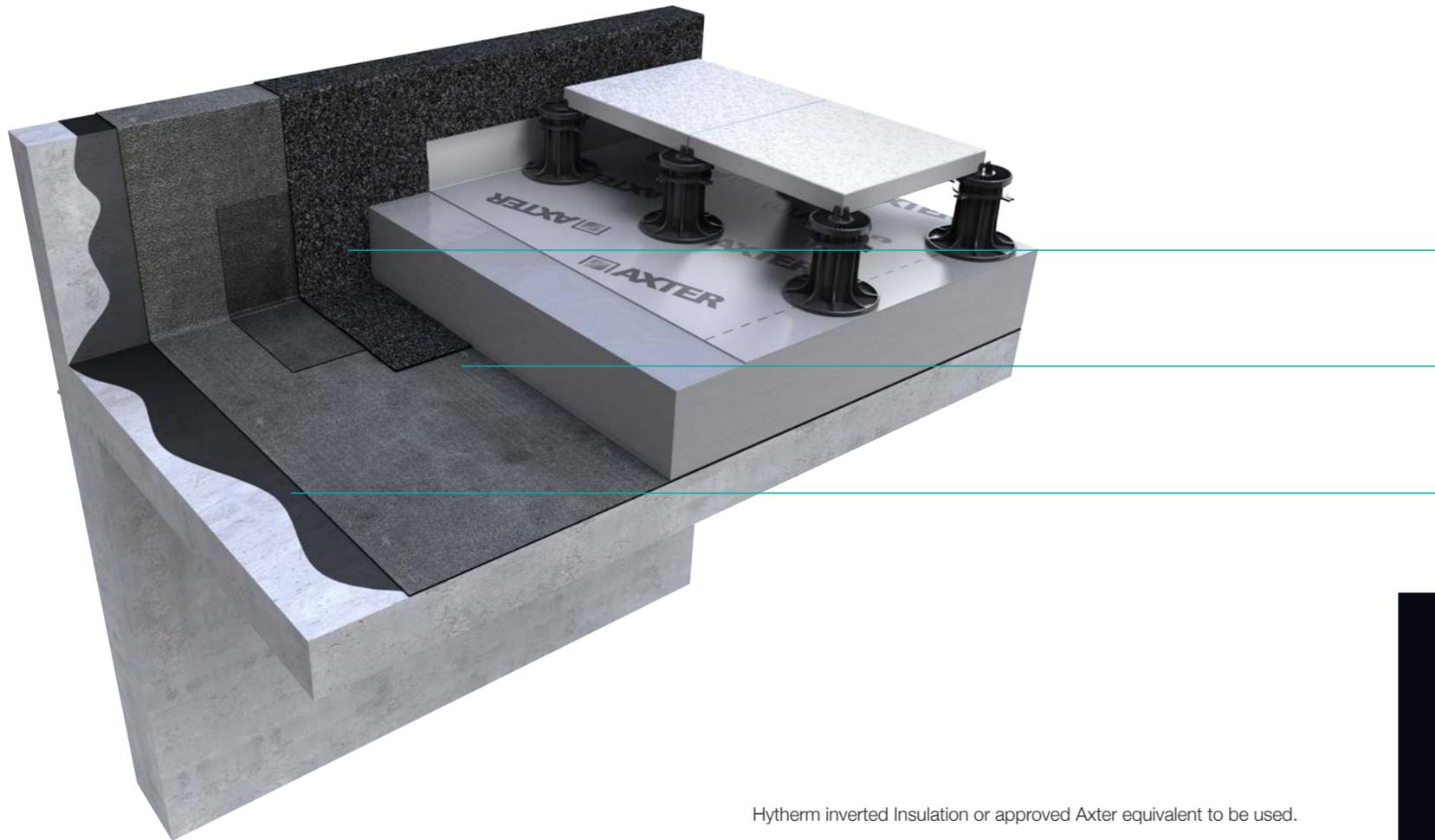
When combined with Force Line 3VV underlayer and AVCL as part of a multi-layer build up Force Line 4.5 achieves a market leading 25 year material and labour system warranty.



Details can be completed with **Starcoat[®] R** flame free cold applied liquid waterproofing, contact Axter for more details.

25 YEAR
WARRANTY





Hytherm inverted Insulation or approved Axter equivalent to be used.

FORCE[®] LINE INVERTED

High performance SBS **inverted** roof waterproofing system

FORCE LINE 2VV & FORCE LINE 4.0 RE

FORCE LINE 2VV & FORCE 3000 LINE RE

FORCE PRIME

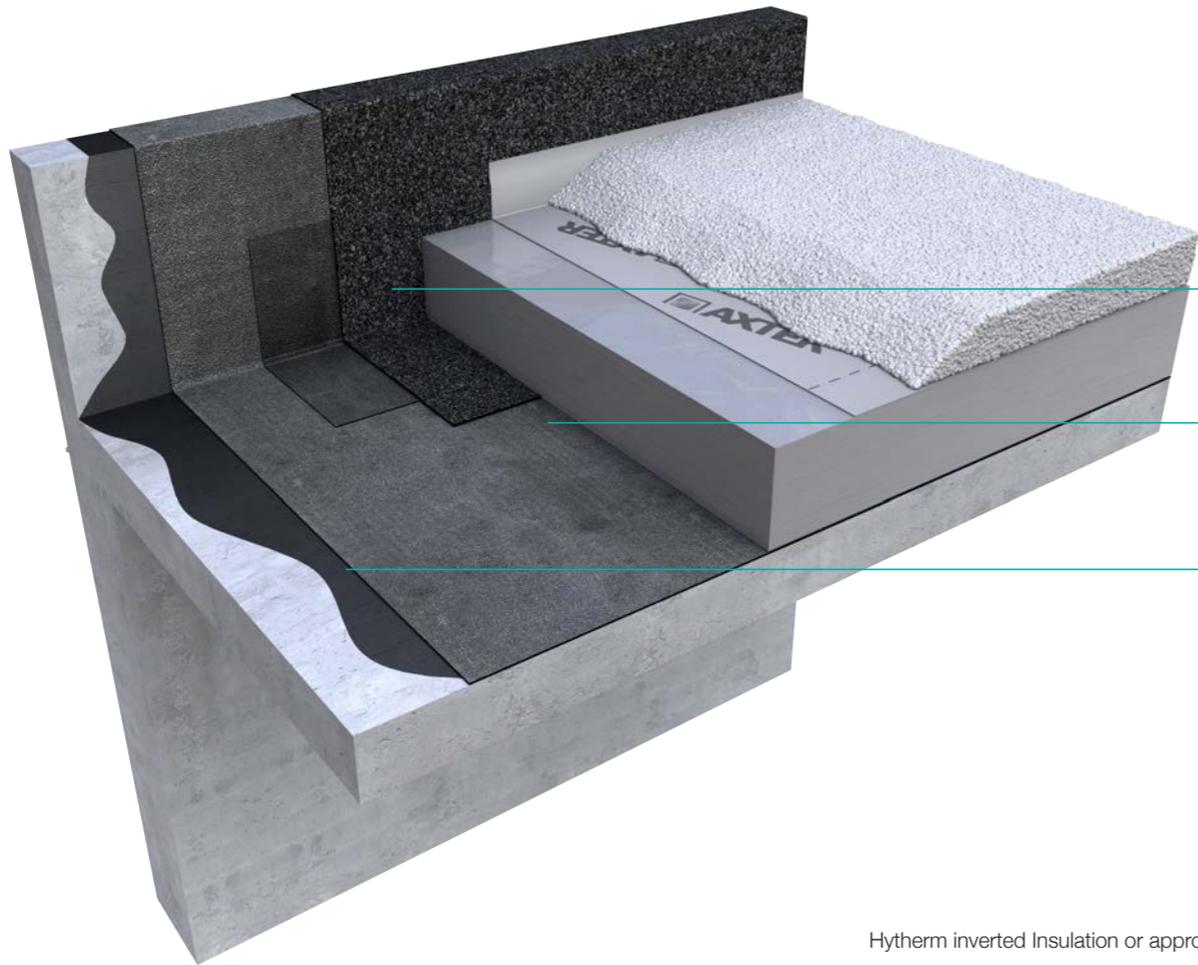


Details can be completed with **Starcoat[®] R** flame free cold applied liquid waterproofing, contact Axter for more details

A cost-effective inverted roof waterproofing build-up, Force 3000 Line RE provides robust waterproofing with a 15 year material and labour system warranty.

15 YEAR
WARRANTY





Hytherm inverted Insulation or approved Axter equivalent to be used.

FORCE[®] LINE INVERTED

High performance SBS **inverted** roof waterproofing system

FORCE LINE 3V & FORCE LINE 4.5 RE

FORCE LINE 3V & FORCE MB 40 PY

FORCE PRIME



Details can be completed with **Starcoat[®] R** flame free cold applied liquid waterproofing, contact Axter for more details

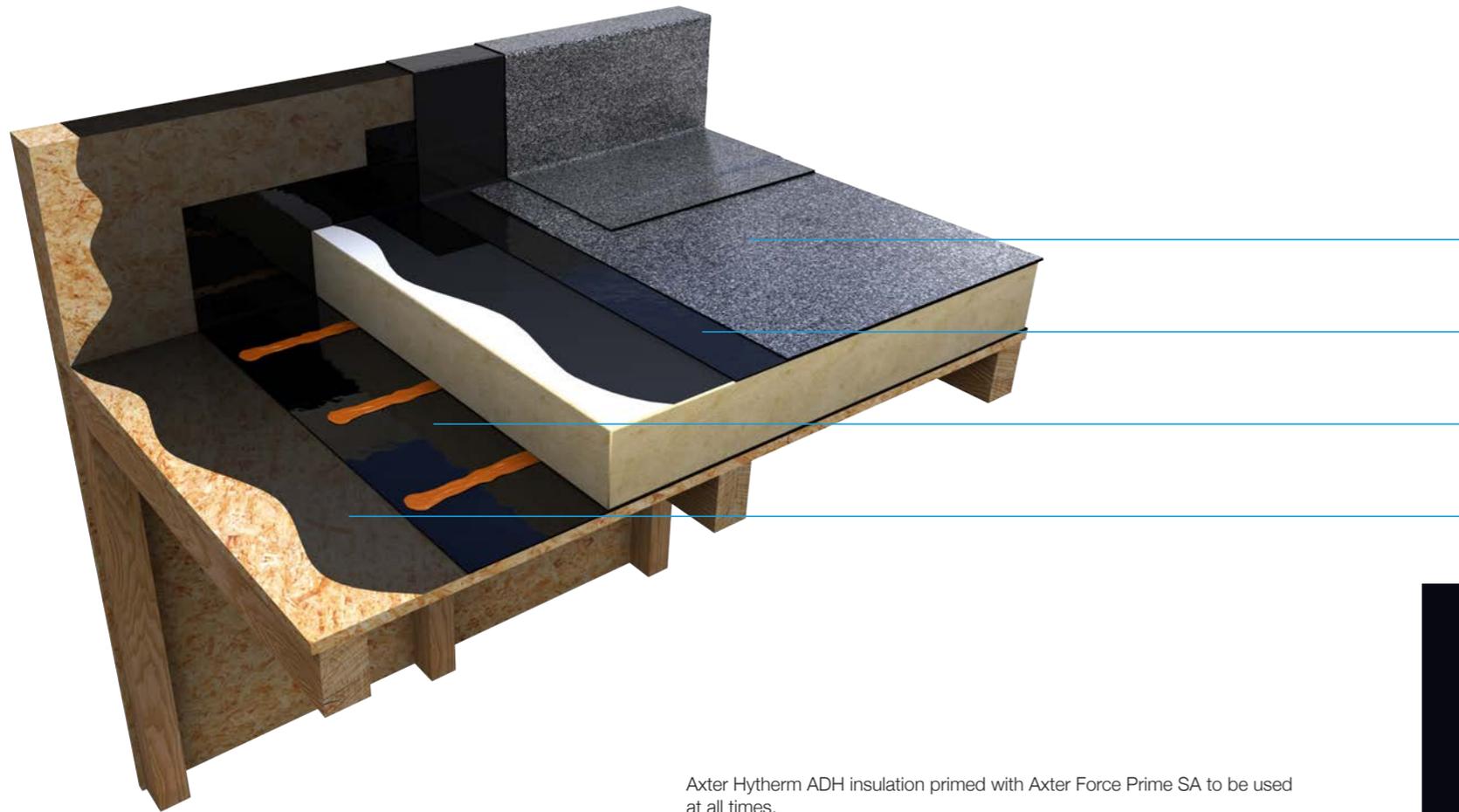
20 YEAR
WARRANTY

FLAME FREE



FORCE[®] LINE NEO-BITUMEN[®]

The Force Line Neo-Bitumen flame free range has been specifically developed for use on all roofing projects where use of a naked flame is prohibited. High quality and robust, Force Line Neo-Bitumen SBS polymer modified, hot air activated bitumen membranes offer equal performance characteristics to torch on membranes as part of a multi-layer system build up.



FORCE® LINE NEO-BITUMEN®

High performance flame free **multi-layer** waterproofing system

FORCE LINE 4.0 FLAME FREE

STICKFLEX

STICKFLEX

FORCE PRIME SA

Axter Hytherm ADH insulation primed with Axter Force Prime SA to be used at all times.

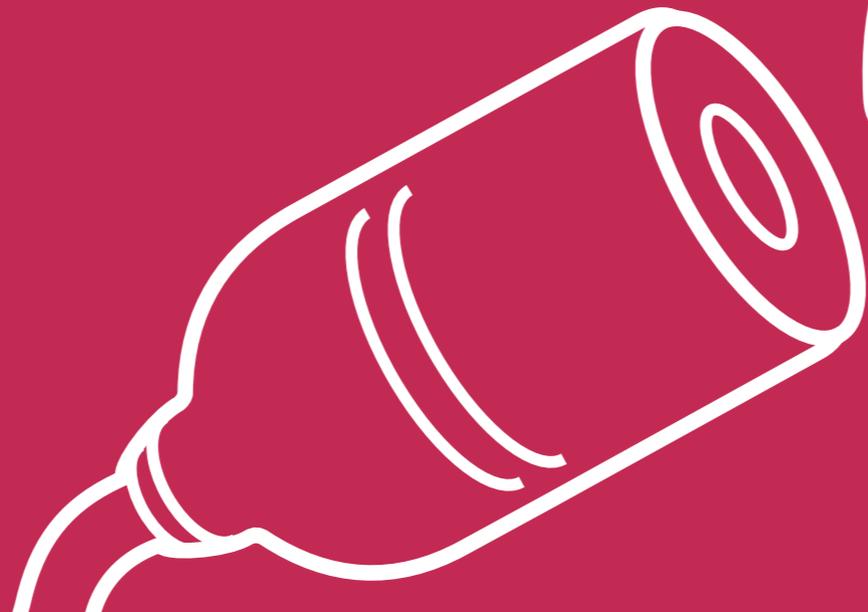


Details can be completed with **Starcoat® R** frame free cold applied liquid waterproofing, contact Axter for more details.

20 YEAR
WARRANTY

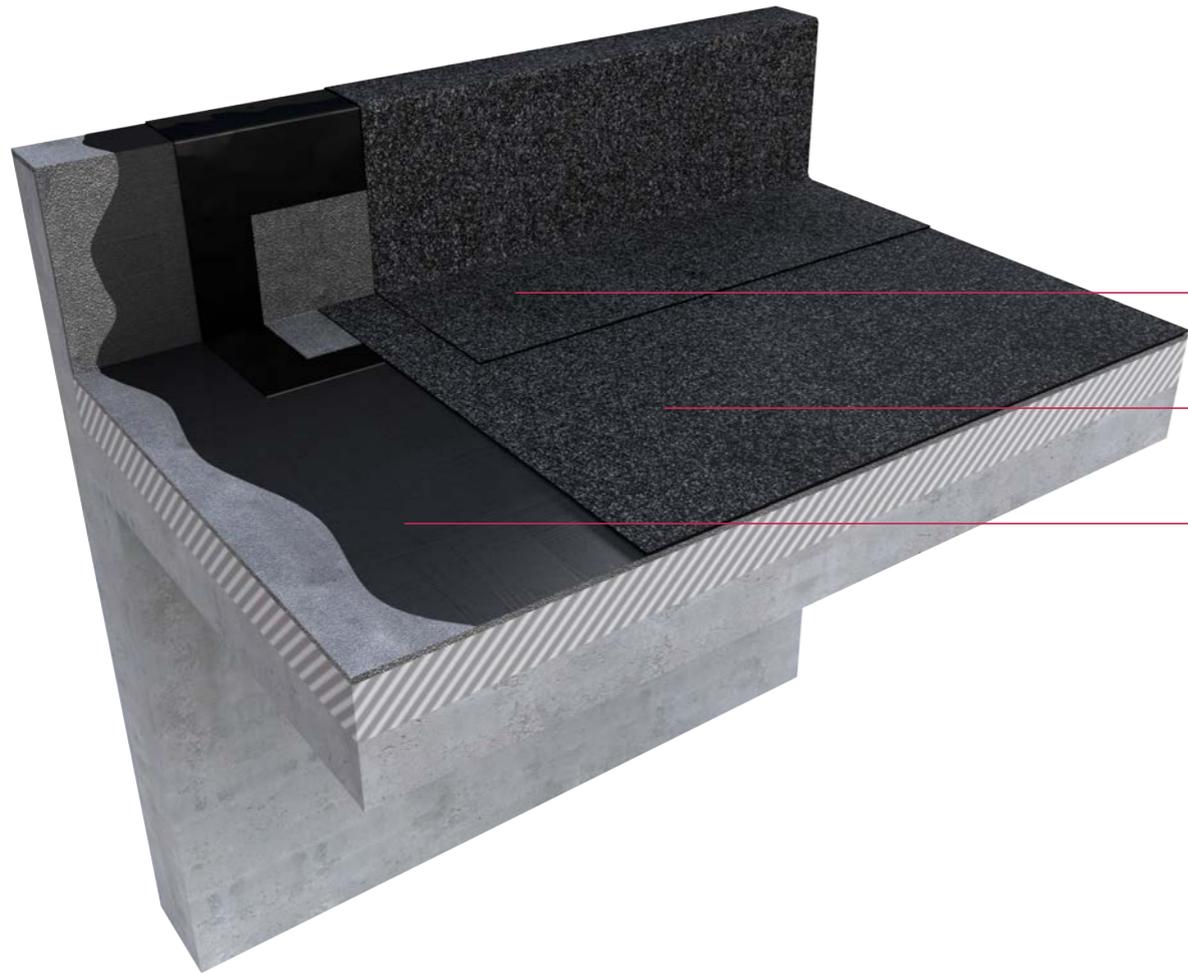


SINGLE LAYER



FORCE[®] LINE ALPAL & SOLO

Manufactured with Axter's unique Alpa[®] mix binder, Force Line Alpal and Force Line Solo roof waterproofing overlay membranes provide significantly improved ageing characteristics and durability performances over standard SBS bitumen membranes.



FORCE[®] LINE ALPAL 3000

High performance Alpa[®] SBS **single-layer** overlay system

FORCE LINE 2VV + FORCE LINE ALPAL 3000

FORCE LINE ALPAL 3000

FORCE PRIME

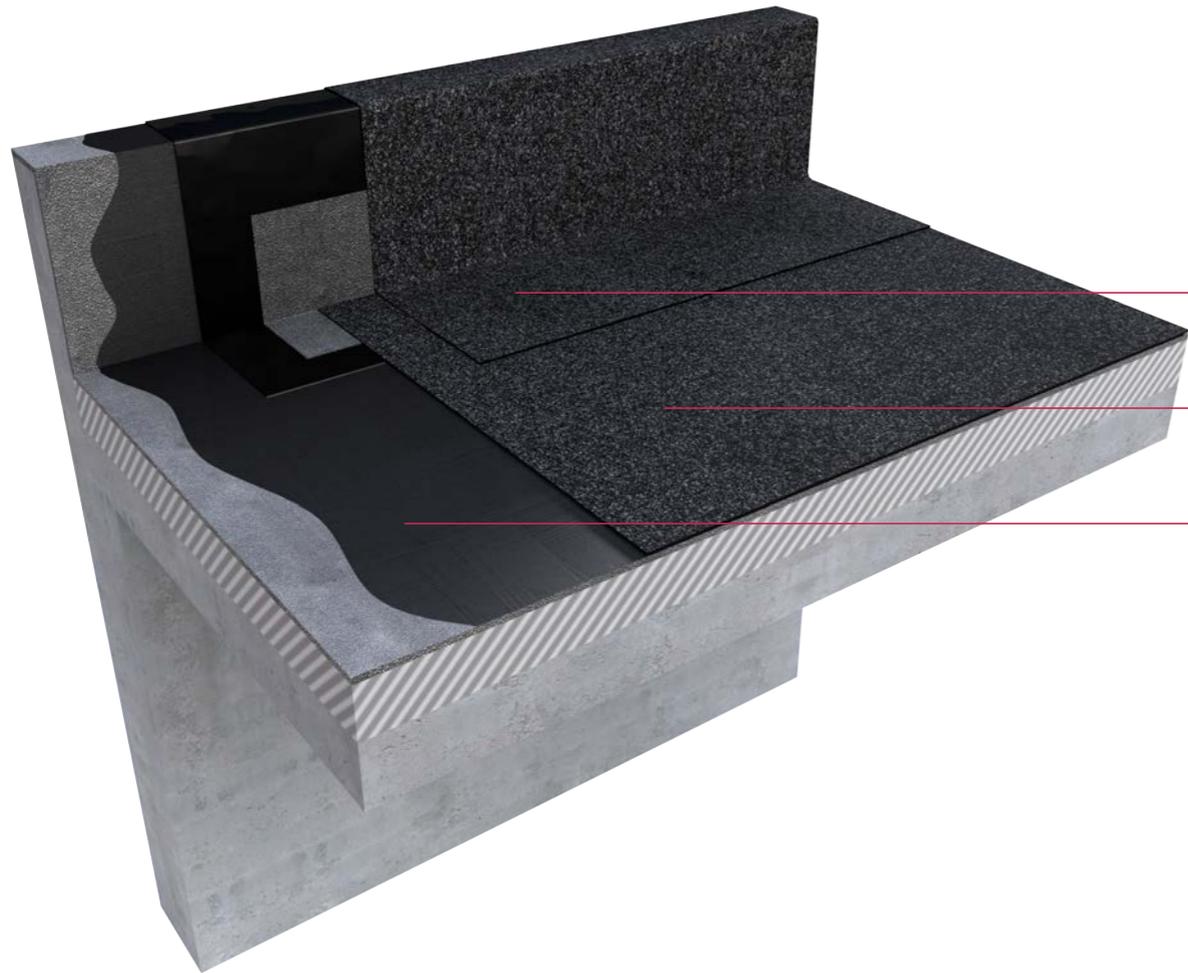
The Force Line Alpal 3000 single layer capsheet contains our unique Alpa binder formulation providing long lasting, easy to apply waterproofing. AA Fire rated achieving a 20 year material and labour warranty.



Details can be completed with **Starcoat[®] R** flame free cold applied liquid waterproofing, contact Axter for more details

20 YEAR
WARRANTY





FORCE[®] LINE SOLO

High performance Alpa[®] SBS **single-layer** overlay system

FORCE LINE 3VV + FORCE LINE SOLO

FORCE LINE SOLO

FORCE PRIME

Force Line Solo is unique in its class. A highly robust BBA approved single layer overlay membrane with Alpa mix binder providing extended life expectancy, AA Fire rated and achieving a 25 year material and labour warranty as standard.



Details can be completed with **Starcoat[®] R** flame free cold applied liquid waterproofing, contact Axter for more details

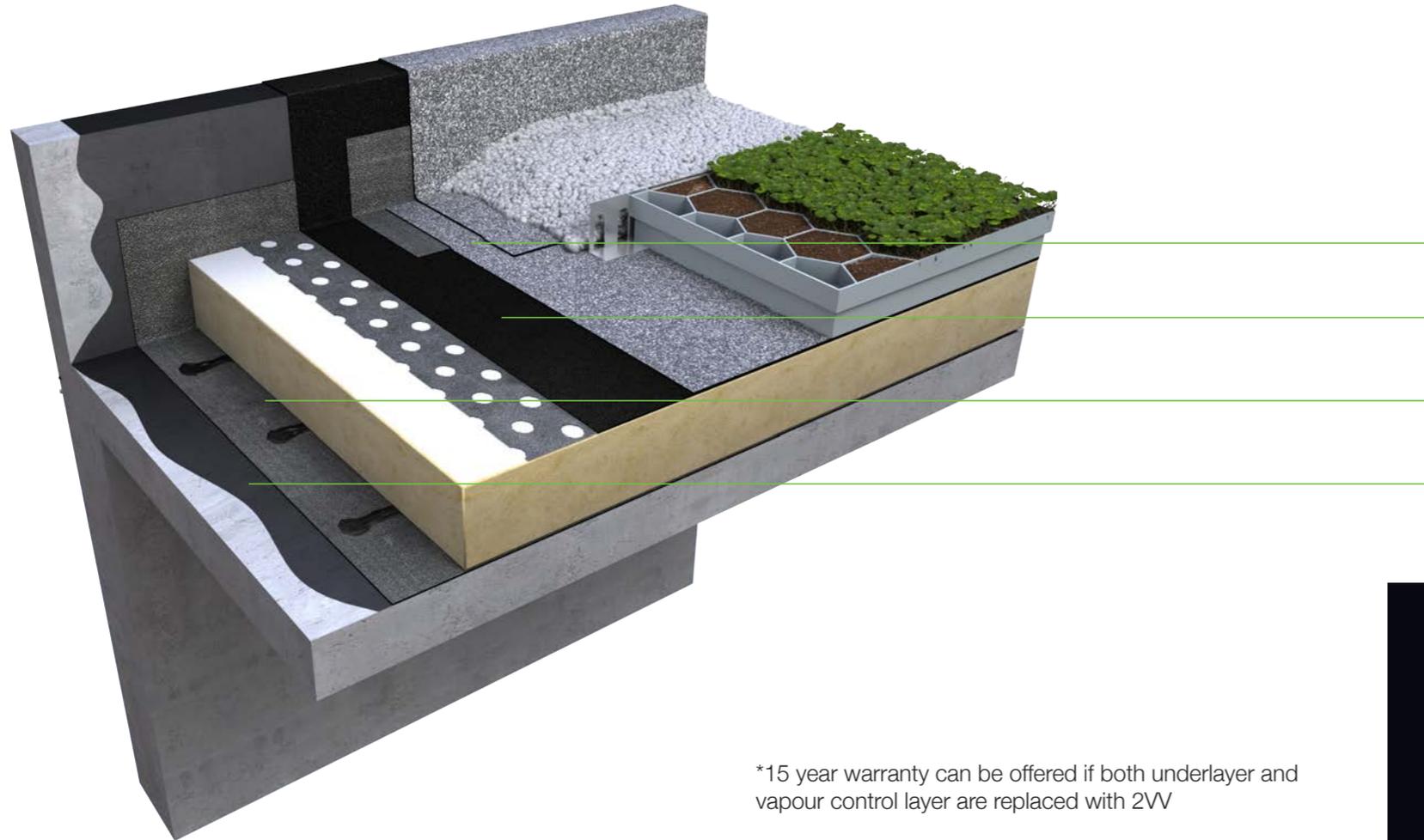
25 YEAR
WARRANTY

GREEN ROOF



FORCE[®] LINE TRAFIC

Force Line Traffic waterproofing systems are perfectly adapted to the needs of green roofs with significant resistance to impact, roots, fertilisers and insecticides. Force Line Traffic waterproofing systems are perfectly adapted to the needs of green roofs with significant systems are BBA certified, conform to all standards and can be used under all forms of intensive and extensive green roof systems.



FORCE[®] LINE 3000 TRAFIC

High performance SBS **multi-layer** waterproofing system

FORCE LINE 3000 TRAFIC

FORCE LINE 3VV*

FORCE LINE 3VV*

FORCE PRIME

*15 year warranty can be offered if both underlayer and vapour control layer are replaced with 2VV



Details can be completed with **Starcoat[®] R** flame free cold applied liquid waterproofing, contact Axter for more details

20 YEAR
WARRANTY



	10 YEAR	15 YEAR	20 YEAR	25 YEAR
TORCH ON MULTI LAYER WATERPROOFING SYSTEMS				
Primer	Force Prime	Force Prime	Force Prime	Force Prime
AVCL	Force Line 2S or 2VV	Force Line 2S or 2VV	Force Line 2S or 2VV	Force Line 3VV
Underlayer	Force Line 2VV	Force Line 2VV	Force Line 2VV	Force Line 3VV
Capsheet	Force Line SBS	Force Line 4.0 RE	Force Line 4.5 RE	Force Line 4.5 RE
Details	Force Line 2VV + Force Line SBS	Force Line 2VV + 4.0 RE	Force Line 2VV + 4.5 RE	Force Line 3VV + 4.5 RE

	10 YEAR	15 YEAR	20 YEAR	25 YEAR
FLAME FREE MULTI LAYER WATERPROOFING SYSTEMS				
Primer			Force Prime SA	
AVCL			Stickflex	
Underlayer	N/A	N/A	Stickflex	N/A
Capsheet			Force Line 4.0 Flame Free	
Details			Stickflex + Force Line 4.0 Flame Free	

	10 YEAR	15 YEAR	20 YEAR	25 YEAR
TORCH ON INVERTED WATERPROOFING SYSTEMS				
Primer		Force Prime	Force Prime	
Base Layer		Force Line 2VV	Force Line 3VV	
Top Layer	N/A	Force 3000 Line RE	Force MB 40 PY	N/A
Details		Force Line 2VV & Force Line 4.0 RE	Force Line 3VV & Force Line 4.5 RE	

	10 YEAR	15 YEAR	20 YEAR	25 YEAR
SINGLE LAYER WATERPROOFING SYSTEMS				
Primer			Force Prime	Force Prime
Capsheet	N/A	N/A	Force Line ALPAL 3000	Force Line Solo
Details			Force Line 2VV + Alpal 3000	Force Line 3VV + Solo

	10 YEAR	15 YEAR	20 YEAR	25 YEAR
GREEN ROOF MULTI LAYER WATERPROOFING SYSTEMS				
Primer		Force Prime	Force Prime	
AVCL		Force Line 2VV	Force Line 3VV	
Underlayer	N/A	Force Line 2VV	Force Line 3VV	N/A
Capsheet		Force 3000 Traffic	Force 3000 Traffic	
Details		Force Line 2VV + 3000 Traffic	Force Line 3VV + 3000 Traffic	

	10 YEAR	15 YEAR	20 YEAR	25 YEAR
SELF ADHESIVE AND TORCH ON WATERPROOFING SYSTEMS				
Primer	Force Prime	Force Prime	Force Prime	Force Prime
AVCL	Force SA	Force SA	Force SA	Force SA
Underlayer	Force SA	Force SA	Force SA	Force SA
Capsheet	Force Line SBS	Force Line 4.0 RE	Force Line 4.5 RE	Force Line Solo
Details	Force SA + Force Line SBS	Force SA + 4 RE	Force SA + 4.5 RE	Force SA + Solo

FORCE LINE PRODUCT RANGE

PRODUCT NAME	surface finish	reinforcement (g / m ²)	m ² / roll	weight (kg)	rolls / pallet
TORCH ON CAPSHEETS					
Force Line SBS ¹	Mineral Granules	120 polyester	8	35	25
Force Line 4.0 RE ²	Mineral Granules	120 polyester	8	41	25
Force Line 4.5 RE ³	Mineral Granules	180 polyester	8	43	23
Force 3000 Traffic	Mineral Granules	180 polyester	5	22	36
Force MB 40 PY	Sanded	180 polyester	10	52	20
Force 3000 Line RE	Sanded	120 polyester	10	37	25
SINGLE LAYER OVERLAY					
Force Line Alpal 3000 ⁴	Mineral Granules	180 polyester	8	34	25
Force Line Solo ⁵	Mineral Granules	180 polyester	8	47	20
FLAME FREE CAPSHEET					
Force Line 4.0 Flame Free	Mineral Granules	120 polyester	8	40	23
AVCL, UNDERLAYER, BASE LAYER					
Force Line 2VV	Film	50 VV	16	48	23
Force Line 3VV	Sanded	50 VV	10	42	25
Force Line 2S	Sanded	50 VV	16	50	22
Force SA*	Film & Sand	50 VV	16	40	25
Stickflex	Film	50 VV	16	42	28
PRIMER			coverage	volume	
Force Prime	n/a	n/a	175 m ² / drum	25 litres / drum	32
Force Prime SA	n/a	n/a	250 m ² / drum	14.4 litres / drum	18

Colour options: ¹(Charcoal, Gris Ardennes, Natural Slate) ²(Red/Brown, Charcoal, Gris Ardennes, Natural Slate) ³(Red/Brown, Charcoal, Natural Slate) ⁴(Charcoal, Natural Slate) ⁵(Charcoal) *self adhesive underlayer/VCL



FORCE® LINE

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