

SIM BITUMINOUS MEMBRANES

NEW GENERATION PENGUEN SERIES

New Generation Penguen Series reflect the new identity of Standart Insulation Co. and shine with its high quality and superb performance among all bituminous membranes. New Generation Penguen Series , especially with its application and post application performance, is a usual choice of master professionals. Thanks to its strong composition, it is more durable, longer lasting and stronger.

The new generation Penguen Membrane ,made of A.P.P., is a waterproofing sheet that is ideal for use in cold, hot and mild weather conditions. The fiberglass and polyester reinforcements inside the membranes provide a higher resistance against tensions by enhancing the mechanical resistance.



FEATURES

- The new generation Penguen is the result of meticulous work, representing the highest level in quality.
- New generation Penguen Waterproofing Membranes give the applicator ease and an enjoyable application.
- With its applied surface, the new Penguen Series gives great adherence. By the help of the bitumen in its formula, gives perfect welding at joints.
- Demonstrates the highest quality in its segment.
- The new generation Penguen Waterproofing Membranes can be applied on different surfaces such as concrete and wood.
- The new generation Penguen Waterproofing Membranes have a flexible structure and keep their quality for long years.
- The new generation Penguen Waterproofing Membranes are quite resistant to tensions arising from building movements.
- The new generation Penguen Waterproofing Membranes can be cut to custom sizes.
- Demonstrates perfect compliance to dilatation, concrete gutters, parapet turns and chimney flashing.
- When used as instructed and under sufficient protection, gives lifelong insulation to the building.

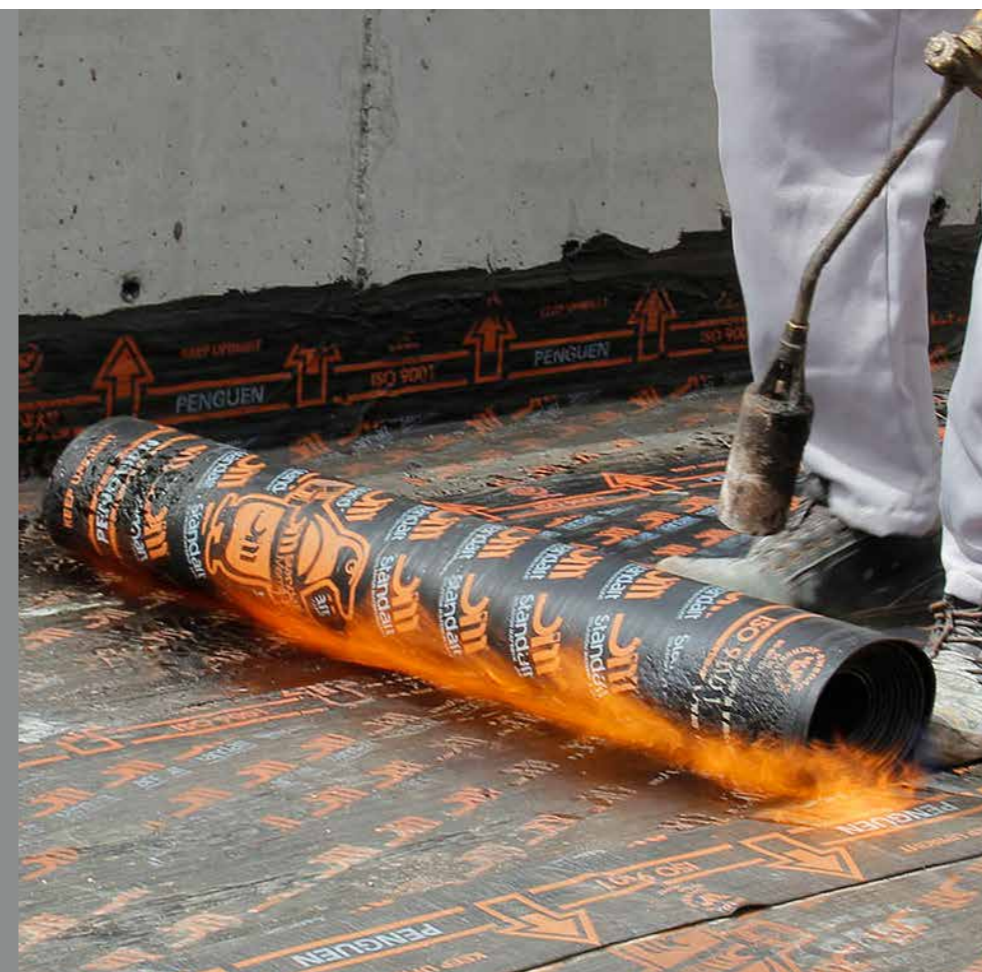
STRONGER

MORE STABLE

LONGER LASTING

MORE DURABLE

MORE PROFESSIONAL





PENGUEN SERIES

Penguen Series waterproofing membranes are plastomeric bituminous waterproofing sheets that are ideal for cold, hot and mild climate zones. Atactic Polypropylene (A.P.P.) with thermoplastic resin is used in this type of membranes to enhance durability of the bitumen. The fiberglass and polyester reinforcements inside the membranes provide a higher resistance against tensions by enhancing the mechanical resistance. Penguen series membranes are very commonly used in many markets. Membranes with a 1 meter width are produced at 10 meters length. Only the membranes of 2 mm thickness are produced at 1 meter width and at 15 meters length.

Areas of usage

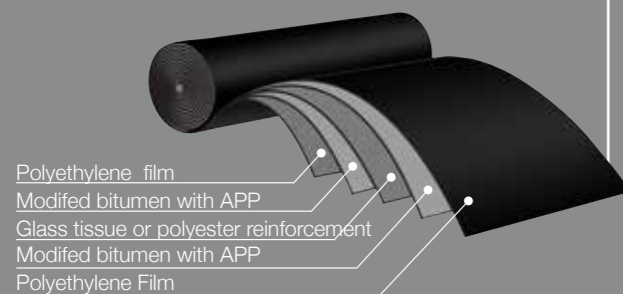
While bituminous membranes are used anywhere water can leak into such as; walls in contact with soil, foundations, floorings that fit on the ground, they can be used at places the water can pond or wet areas below water level such as; external walls, balconies, terraces, sloped roofs, bathrooms, kitchens, toilets.

In addition, Penguen bituminous waterproofing sheets are used in water tanks, pools, safety walls and ,depending on the characteristics of the surface, in artificial lakes and concrete canals. Penguen waterproofing sheets brings economic and aesthetic solutions many more issues.

Features

- Provides a strong hold of the surface and great adhesion. Retains this quality after the application too. Especially, in foundation curtain wall insulation this feature is more clearly visible. Can be applied on different surfaces like wood and concrete.
- Demonstrates more than enough flexibility against structural movements with its longitudinal and transverse tensile strength. Durable against movements and dilatation.
- There is no melting and flowing in hot weather meanwhile there is no Breaking or cracking in cold in our membranes which are easily applied using Shalumo Torch. With dedicated cutting equipment, they can be cut as needed.
- Demonstrates perfect compliance to dilatations, concrete gutters, parapet turns and chimney flashings. When used as instructed and under sufficient protection, gives lifelong insulation to the building.

Cold Flexibility : -5 °C
Heat resistance : 110 °C





PANDA SERIES

Panda Series waterproofing membranes are plastomeric waterproofing membranes , the ideal choice in continental climate (cold and hot). The fiberglass and polyester reinforcements inside the product give the bitumen a better durability. To enhance the physical resistance of the membranes, fiberglass or polyester mat is used as reinforcement.

Areas of usage

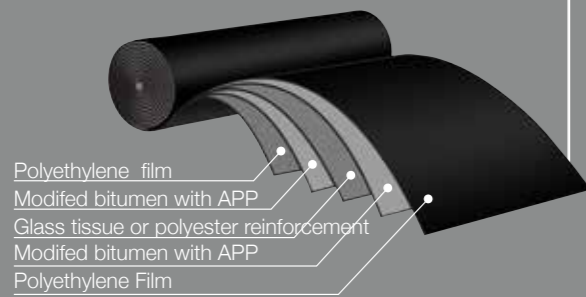
While bituminous membranes are used anywhere water can leak into such as; walls in contact with soil, foundations, floorings that fit on the ground, they can be used at places the water can pond or wet areas below water level such as; external walls, balconies, terraces, sloped roofs, bathrooms, kitchens, toilets.

In addition, Panda bituminous waterproofing sheets are used in water tanks, different types of pools, safety walls, concrete canals, parking areas and at places under heavy tension such as roadways, railroad transportation systems, bridges and viaducts.

FEATURES

- Waterproofing membranes with diverse areas of use due to great performance in different climates. With its impermeability, provides certain waterproofing.
- Provides a strong hold of the surface and great adhesion. Retains this quality after the application too. Especially, in foundation curtain wall insulation this feature is more clearly visible. Can be applied on different surfaces like wood and concrete.
- Demonstrates more than enough Flexibility against structural movements with its longitudinal and transverse tensile strength. Durable against movements and dilatation.
- There is no melting and flowing in hot weather meanwhile there is no breaking or cracking in cold in our membranes which are easily applied using Shalumo Torch. With dedicated cutting equipment, they can be cut as needed.
- Demonstrates perfect compliance to dilatation, concrete gutters, parapet turns and chimney flashing. When used as instructed and under sufficient protection, gives lifelong insulation to the building.

Cold Flexibility : -10 °C
 Heat resistance : 120 °C



FOK SERIES

Fok Series waterproofing membranes are elastomeric bituminous waterproofing sheets that are ideal for especially cold climate zones. This type of bituminous membranes are enriched with ,Styrene – Butadiene – Styrene (SBS) with thermo plastic resin, to enhance the durability of the bitumen. The fiberglass and polyester reinforcements inside the membranes provide a higher resistance against tensions by enhancing the mechanical resistance. Membranes with a 1 meter width are produced at 10 meters length. Only the membranes of 2 mm thickness are produced at 1 meter width and at 15 meters length.



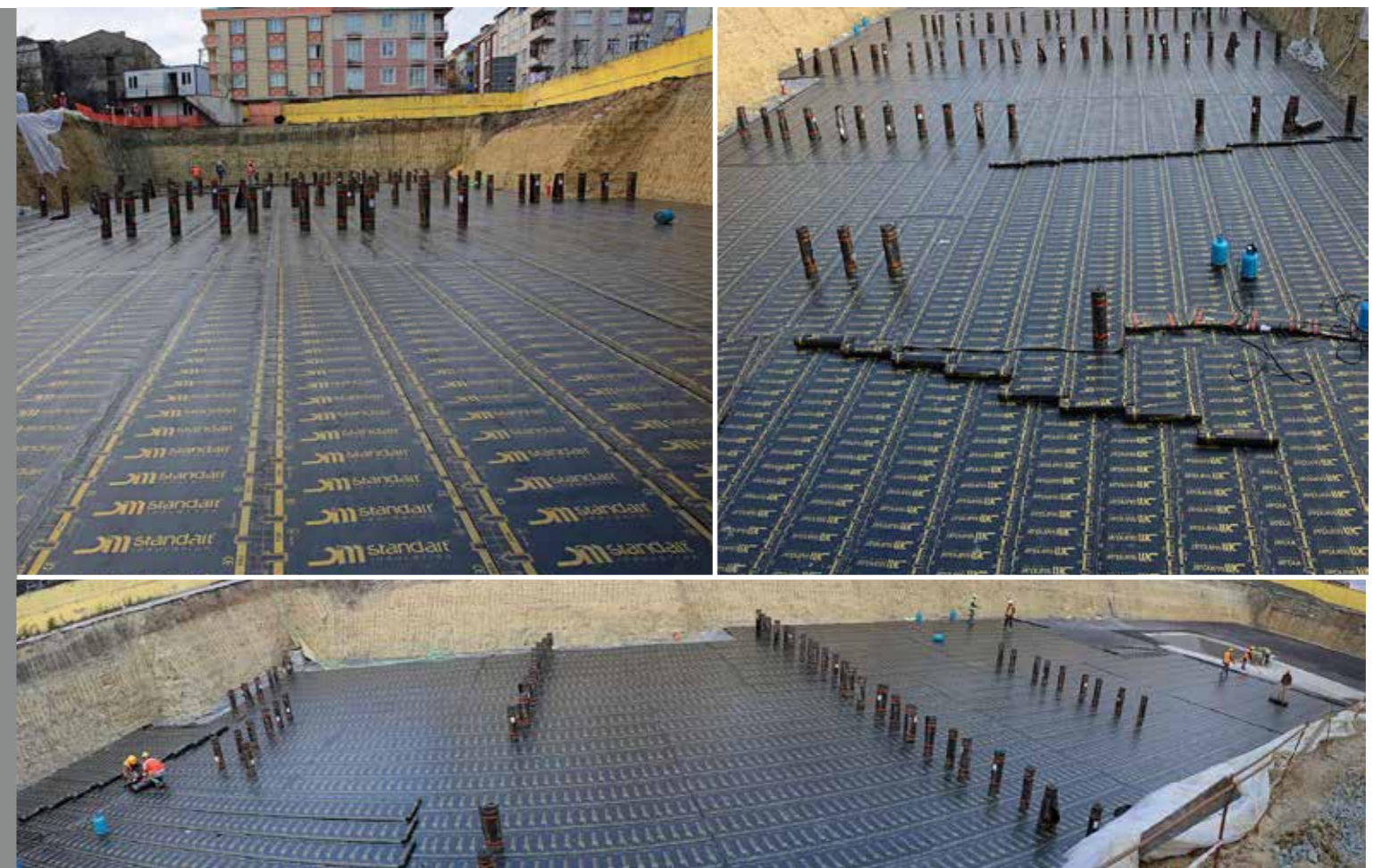
Areas of usage

FOK series bituminous waterproofing sheets are elastomeric (SBS) based. They contain polyester mat or fiberglass reinforcement to enhance tension resistance. Fok Series, the ideal choice in cold climates are used on walls in touch with soil, foundations or floorings that fit on the ground. As well as these, they can be used at places the water can pond or wet areas below water level such as; external walls, balconies, terraces, sloped roofs, bathrooms, kitchens, toilets, water tanks, pools, safety walls and ,depending on the characteristics of the surface, in artificial lakes and concrete canals. Especially, because its flexible structure can endure dilatations or shrinking, in moving structures, deep foundations and metal roofs FOK is frequently preferred.

FEATURES

- Under conditions where the temperature is below freezing point, FOK series products do not lose their performance and retain their Flexibility. They demonstrate more than enough Flexibility against structural movements with its longitudinal and transverse tensile strength.
- FOK series membranes are suitable for hot asphalt application too.
- Provides a strong hold of the surface and great adhesion. Retains this quality after the application too. Especially, in foundation curtain wall insulation this feature is more clearly visible. Can be applied on different surfaces like wood and concrete.
- Resistant against structural movements and dilatation. With its quite flexible structure, it is preferred in metal roofs which always have a tendency to dilate and bend.
- There is no melting and flowing in hot weather meanwhile there is no breaking or cracking in cold in our membranes which are easily applied using Shalumo Torch. With dedicated cutting equipment, they can be cut as needed.
- Demonstrates perfect compliance to dilatation, concrete gutters, parapet turns and chimney flashing. When used as instructed and under sufficient protection, gives lifelong insulation to the building.

Cold Flexibility : -20 °C
Heat resistance : 100 °C



SIM MEMBRANE (Mineral Surface)

Standart reflective mineral coated bituminous sheets are a common solution to many water-proofing problems with their precise impermeability and wide areas of application. This type of bituminous membranes have a reflective mineral coated upper surface while the lower surface is covered with Polyethylene film.

Fiberglass or Polyester mat is used in mineral coated bituminous membranes produced either Plastomeric (A.P.P. Modified) or Elastomeric (S.B.S. Modified). Mineral coated membranes are produced at 1 meter width and 10 meters length.



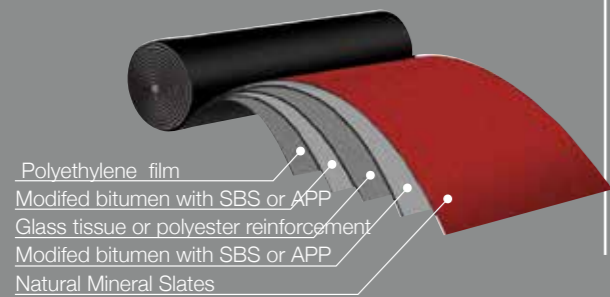
COLORS



Custom colors available on demand.

FEATURES

- Red, Green, Grey and White are color options.
- Used on the last upper layer, the product demonstrates technical and aesthetical insulation solutions.
- UV resistant thanks to the mineral coating.
- Does not require additional protective concrete.
- Demonstrates perpetuity.
- Practical, applied very fast and easily with Shaluma Torch. Long lasting and economic.
- Durable against structural movements and dilatation.
- Complies with every climate thanks to wide range of products.
- Environment friendly, does not harm the nature or living beings.
- Demonstrates perfect watertightness with its impermeability.
- Provides a strong hold of the surface and great adhesion.
- With dedicated cutting equipment, they can be cut as needed.
- Demonstrates perfect compliance to dilatation, concrete gutters, parapet turns and chimney flashing



QUICK SHINGLE

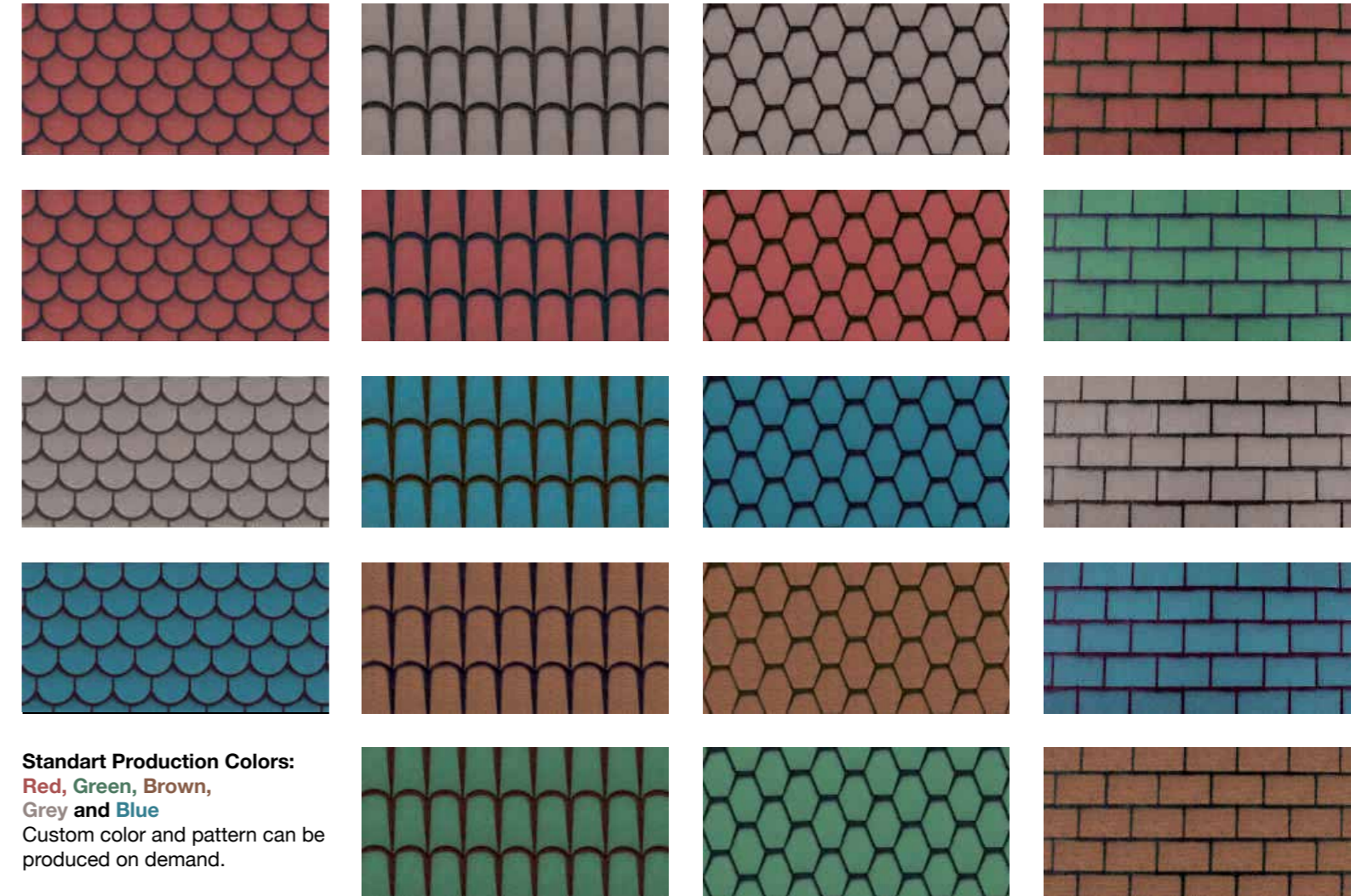
Quick Shingle was created to be used in place of any kind of roofing material. It is a granule stone coated bituminous membrane roofing material with surface of painting or formed theme, pattern (tile image, etc.) figure, image, logo and / or print. Quick shingle has been produced as an alternative roofing material for terrace and sloping roofs.



ADVANTAGES

1. Economic price and low labor cost
2. Easy application, even by end user
3. Monolithic pattern and its self adhesive features prevents tearing caused by wind
4. Strong and reliable
5. Monolithic pattern prevents dust and dirt because of its flat surface in contrast to leaf type shingles.
6. Adds value to buildings with changing the view of the building.





Standart Production Colors:
Red, Green, Brown,
Grey and Blue
 Custom color and pattern can be produced on demand.

TECHNICAL SPECIFICATIONS		
SPECIFICATION	VALUE	UNIT
Length	10	m
Width	1	m
Thickness	3,5	mm
Weight	>40	KG / Roll
Water Tightness	10 kPa	kPa
Flexibility at low temperature	-5	°C
Tensile Strength (Width)	400	N/50mm
Tensile Strength (Length)	600	N/50mm
Elongation at Break (Width)	30	%
Elongation at Break (Length)	30	%
Flow resistance at elevated temperatures	110	°C
Behaviour to Fire	E	-
Hazardous material	N/A	-
External Fire Performance	Broof	

WHY SHOULD I USE QUICKSHINGLE?

Low labor cost.

A workman lays 30-50m2 shingles, 20-30m2 tiles but 80-100m2 quick shingle in one shift. Low wastage and light weight compared to other types. It can be applied by end users because of its easy application.



Weight

3 times lighter than its competitors.

Nonfading

Stays colored for long years thanks to its UV protecting pigments.

Leak proof

Full leak proofing and insulation because of Shalumo Torch application and no nails.

Four season

It can be applied at any sloping roof and in any season.



STANDARD INSULATION

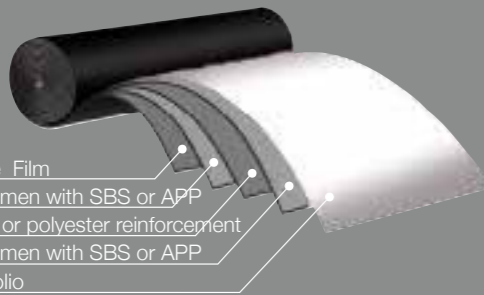
SIM MEMBRANE ALFO

Aluminium coated bituminous sheets used as the uppermost layer are applied practically using Shaluma Torch. Presents aesthetic and economic ways in insulation. Resistant to UV rays and heavy weather conditions.

Areas of usage

Roofs and terraces, parapets, chimneys, sloped gutters and hidden gutters and in many such details.

- Polyethylene Film
- Modified bitumen with SBS or APP
- Glass tissue or polyester reinforcement
- Modified bitumen with SBS or APP
- Aluminium folio



CUSTOM COLORS
SUITABLE FOR
ROOFS

Technical Specifications

FDO (Elastomeric Series) S.B.S Modified

Features	Standard	Unit	Fiberglass		Polyester	
			2	3	3	4
Reinforcement						
Thickness	TS 11758-1	mm	2	3	4	3,2-3,5 4,2-4,5
Width	TS 11758-1	m	1	1	1	1
Length	TS 11758-1	m	15	10	10	10
Heat resistance	TS 11758-1 TS EN 1109	°C	100	100	100	100
Cold flexibility	TS 11758-1 TS EN 1109	°C	-20	-20	-20	-20
Bitumen Breaking Point (Phase)	TS 11758-1	°C	-35	-35	-35	-35
Water impermeability	TS 11758-1	-	✓	✓	✓	✓
Longitudinal Tensile strength (least)	TS 11758-1 TS 1908	N5 cm	400	400	800	400
Transverse Tensile Strength (least)	TS 11758-1 TS 1908	N5 cm	300	300	600	300
Longitudinal Elongation	TS 11758-1 TS 1908	%	2	2	35	2
Transverse Elongation	TS 11758-1 TS 1908	%	2	2	35	2
Covering (front)			PE	PE	PE	MIN
Covering (back)			PE	PE	PE	PE
Item No.						

Technical Specifications

Panda (Plastomeric Series) A.P.P. Modified

Features	Standard	Unit	Fiberglass		Polyester	
			2	3	3	4
Reinforcement						
Thickness	TS 11758-1	mm	2	3	4	3,2-3,5 4,2-4,5
Width	TS 11758-1	m	1	1	1	1
Length	TS 11758-1	m	15	10	10	10
Heat resistance	TS 11758-1 TS EN 1109	°C	120	120	120	120
Cold flexibility	TS 11758-1 TS EN 1109	°C	-10	-10	-10	-10
Bitumen Breaking Point (Phase)	TS 11758-1	°C	-20	-20	-20	-20
Water impermeability	TS 11758-1	-	✓	✓	✓	✓
Longitudinal Tensile strength (least)	TS 11758-1 TS 1908	N5 cm	400	400	800	400
Transverse Tensile Strength (least)	TS 11758-1 TS 1908	N5 cm	300	300	600	300
Longitudinal Elongation	TS 11758-1 TS 1908	%	2	2	35	2
Transverse Elongation	TS 11758-1 TS 1908	%	2	2	35	2
Covering (front)			PE	PE	PE	MIN
Covering (back)			PE	PE	PE	PE
Item No.						

Technical Specifications

Penguen (Plastomeric Series) A.P.P. Modified

Features	Standard	Unit	Fiberglass		Polyester	
			2	3	3	4
Reinforcement						
Thickness	TS 11758-1	mm	2	3	4	3,2-3,5 4,2-4,5
Width	TS 11758-1	m	1	1	1	1
Length	TS 11758-1	m	15	10	10	10
Heat resistance	TS 11758-1 TS EN 1109	°C	110	110	110	110
Cold flexibility	TS 11758-1 TS EN 1109	°C	-5	-5	-5	-5
Bitumen Breaking Point (Phase)	TS 11758-1	°C	-15	-15	-15	-15
Water impermeability	TS 11758-1	-	✓	✓	✓	✓
Longitudinal Tensile strength (least)	TS 11758-1 TS 1908	N5 cm	300	300	600	300
Transverse Tensile Strength (least)	TS 11758-1 TS 1908	N5 cm	200	200	400	200
Longitudinal Elongation	TS 11758-1 TS 1908	%	2	2	30	2
Transverse Elongation	TS 11758-1 TS 1908	%	2	2	30	2
Covering (front)			PE	PE	MIN	AlFoljo AlFoljo AlFoljo
Covering (back)			PE	PE	PE	PE
Item No.						

AF: Membrane with Aluminium Folio MIN: Mineral Coating
AR: Membrane with glass ✓: Waterproof
PE: Polyethylene film



ISO 9001
QUALITY
ASSURANCE

1450
SS-EN 45012



SIM SHINGLE



SIM SHINGLE

UNBREAKABLE SHINGLE

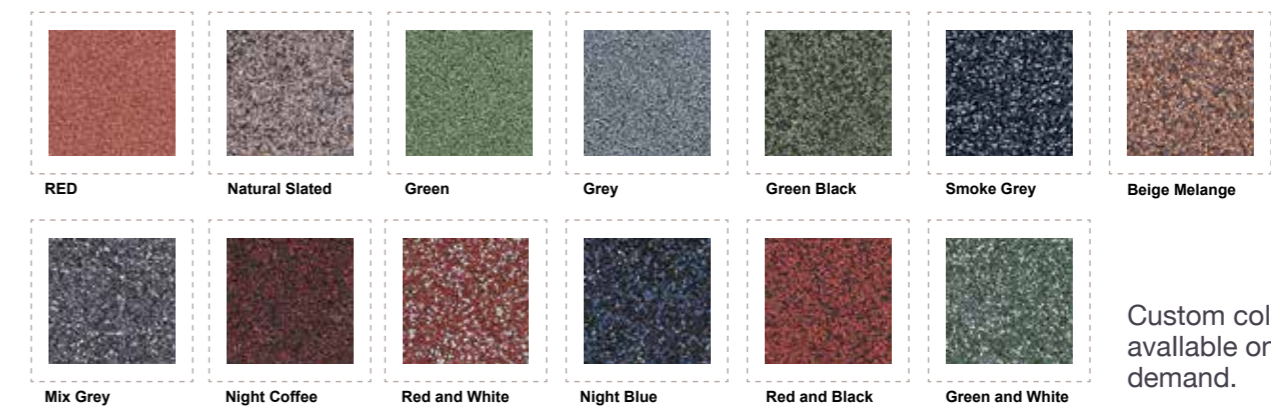
Simshingle is an aesthetic roof sheet with detachable film laminated lower surface, natural colored mineral slated upper surface and is composed of fiberglass reinforcement of 110 g/ m2 density and high quality APP added bitumen.

Thanks to the sticky nature of bitumen, Simshingle demonstrates perfect adhesion with its adhesive characteristic, highly weatherproof, helpful in fine detailing, maintenance-free and quickly applicable.

Easily adaptive to every roof type, Sim Shingle is applied on wooden, metal and/or sloped roofs and on building facades. In addition, it can be applied on curvilinear roofs such as domes and cross vaults. The lightweight roofing material characteristics of Simshingle make it a good alternative to heavier materials.



COLORS



Custom colors available on demand.

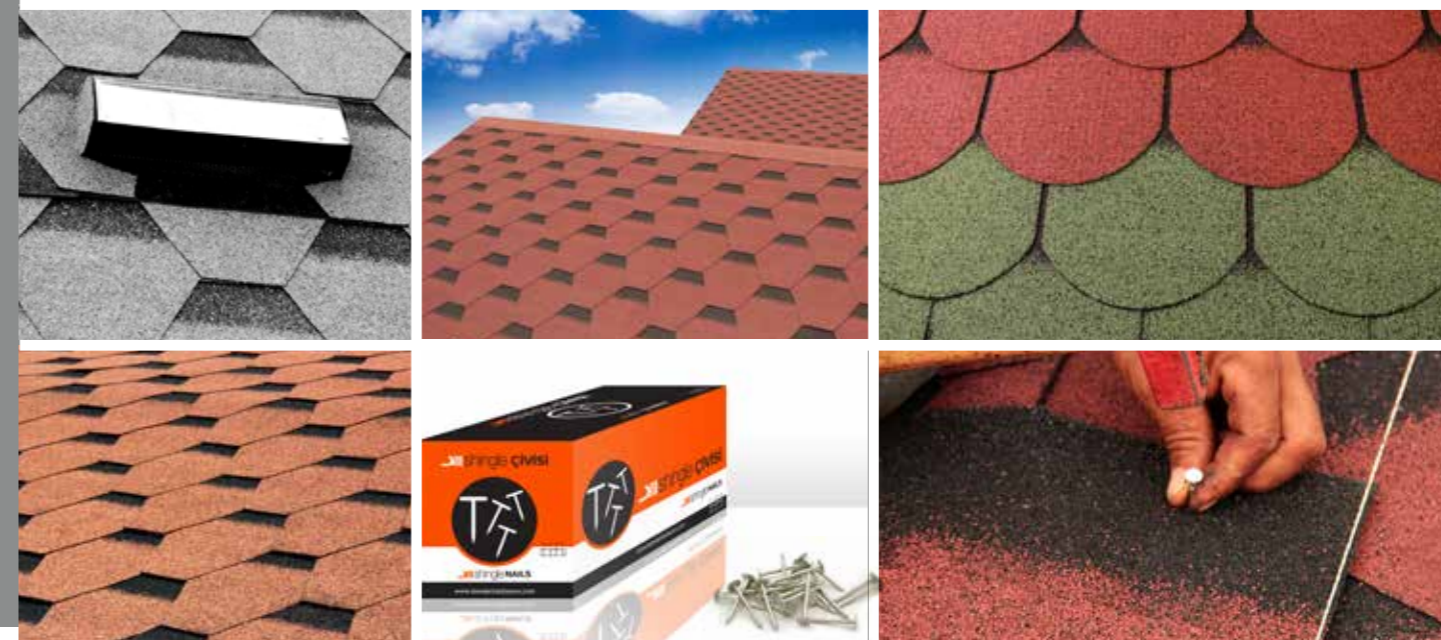


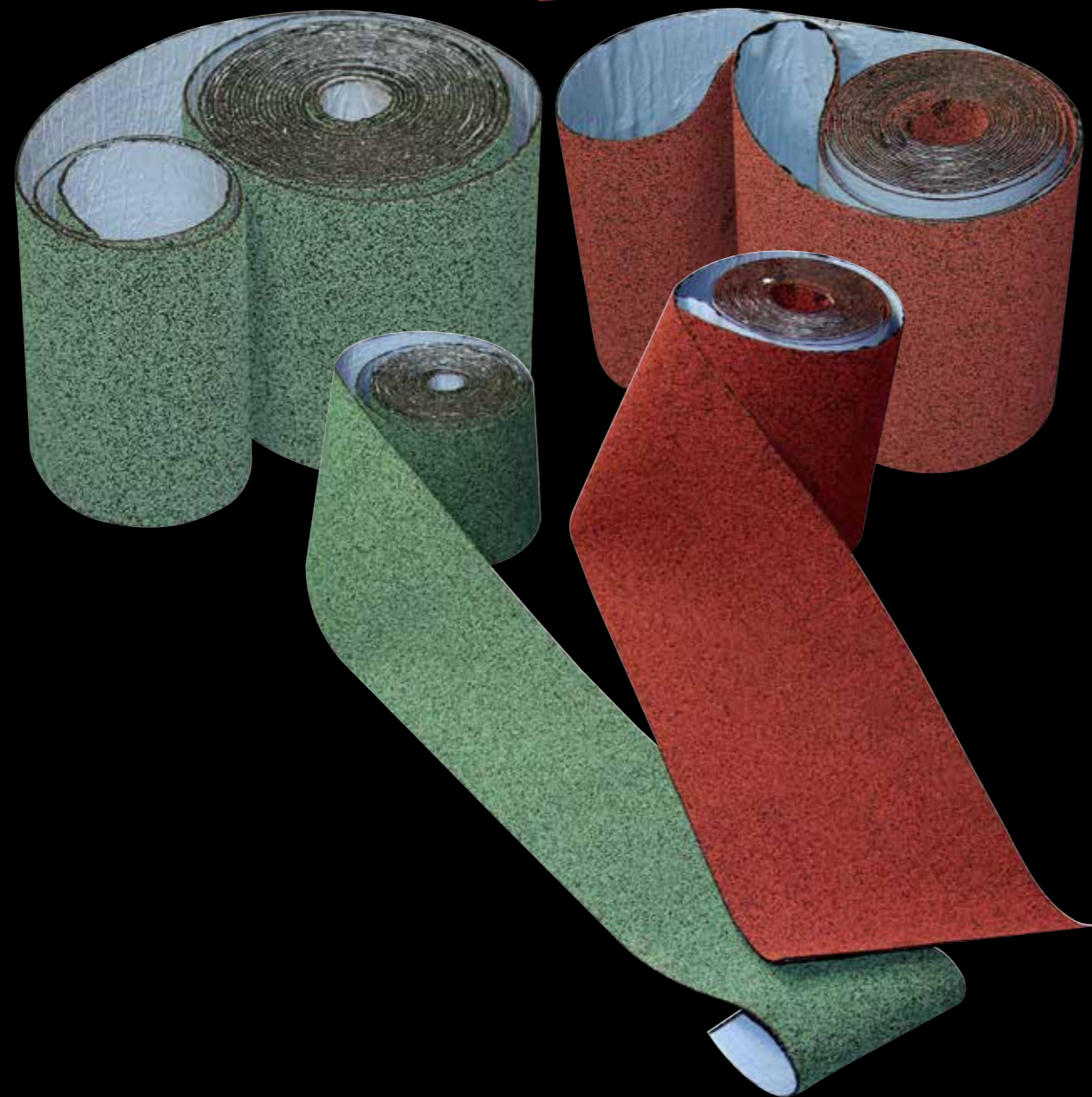
FEATURES

- Resistant to bad weather and winds.
- Does not pop out.
- UV resistant.
- Flexible, does not crack or break.
- Not effected by temperature and weather condition changes.
- No peeling of surface minerals.
- Lightweight, very portable and puts no additional load on structures.
- Easily applicable with Shalumo torch.
- No extra accessories required in fine detail solutions.



	SHINGLE CLASSIC	SHINGLE HEXAGON
Reinforcement	FIBERGLASS	
Width	320mm	320mm
length	1000mm	1000mm
longitudinal Tensile Strength	600 N/5cm	600 N/5cm
Transverse Tensile Strength	600 N/5cm	600 N/5cm
Net Coverage area (Package)	2.56m ²	2.52m ²
Packaging Style	POLYETHYLENE COVERED PACKAGES	
Number of leaves (Package)	17 Piece	18 Piece
Package Weight	20kg	17kg
Softening Point	125 °C	125 °C





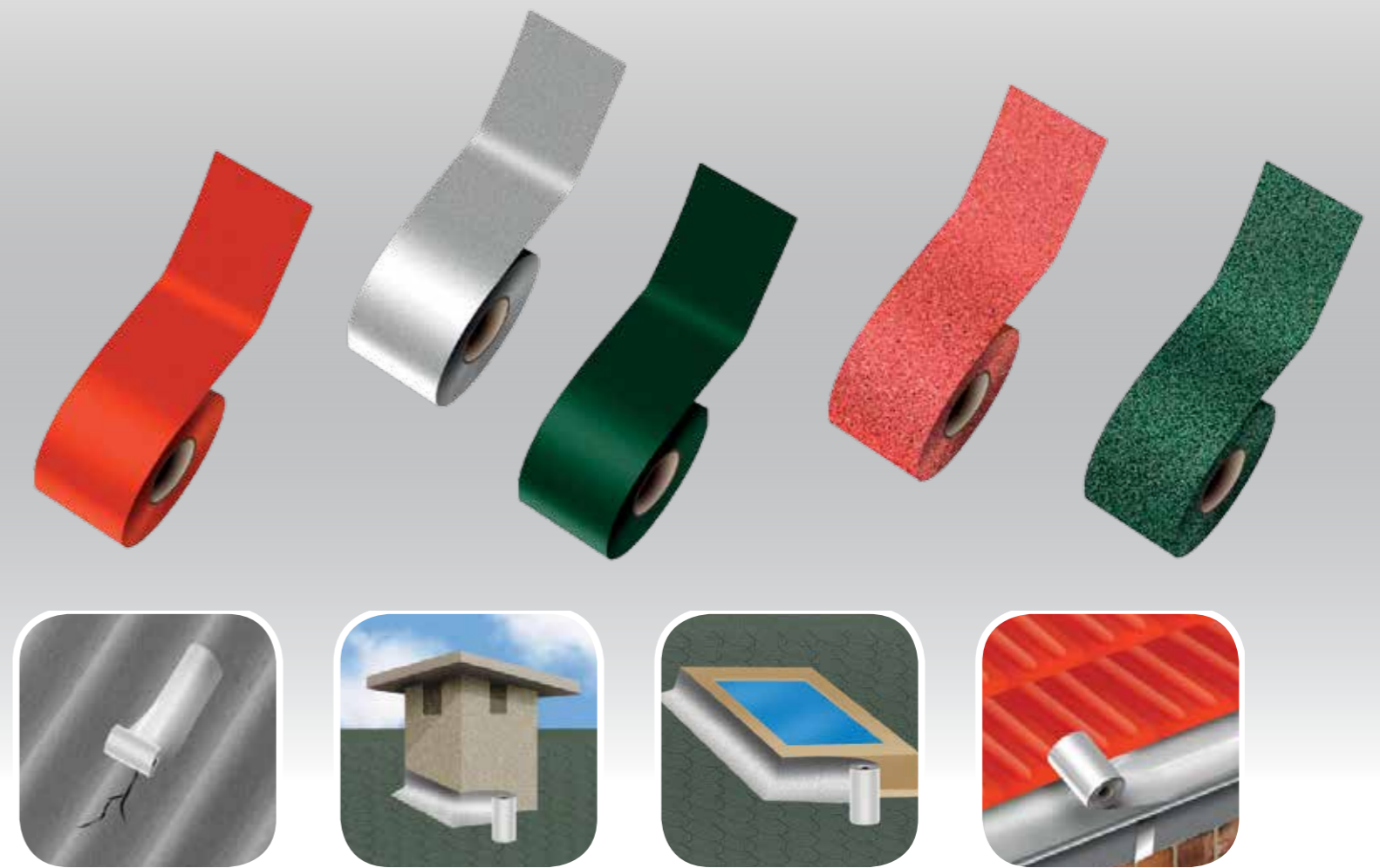
SIM SELF
(TAPES-MEMBRANES)

SIM SELF TAPES (Self-Adhesive)

Areas of usage

Simself tapes are bitumen based waterproofing tapes with one surface covered with aluminium folio or colored minerals and other surface covered with detachable film. Simself tapes are not negatively effected by sunlight due to its natural aluminium folio or natural mineral coating. Thanks to its Flexibility, it can be comfortably applied on curvilinear or skewed surfaces. Simself Tapes, through water tightness and self adhesiveness, present practical solutions in many fine details. It is produced in rolls of 10-15-20-30-60 cm width and 10 meters length.

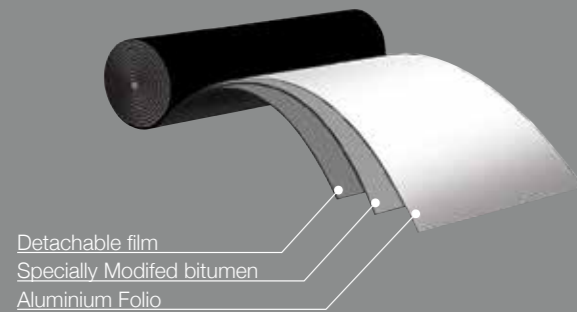
After the detachable film layer on one side of SimSelf Tape is peeled, the tape is ready to stick. However, to provide a good adhesion, the application surface has to be clean and dry. And on concrete surfaces, Standart bituminous primer should be applied prior to application and after the drying of the primer layer, Sim Self Membrane has to be stuck onto the already dry surface.



“SimSelf tape brings many practical solutions with its waterproofing and self adhesive features”



SIMSELF TAPE (ALUMINIUM FOIL COATED)



ALUMINIUM FOIL COATED

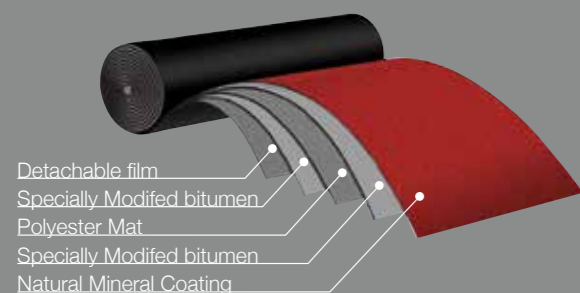
FEATURES	Unit	Sim Self Tape Aluminium Follo
Thickness	mm	1,5
Weight	Kg/m2	1,7
Width	cm	10-15-20-30-60
Length	m	10
Covering (Front)		AlFoil
Covering (back)		Detachable Film

Specially made of SBS Modified and self adhesive bitumen. Has 1,5 mm thickness.

COLORS: Natural Aluminium color, Red and Green.

Each package: 6 m2

SIMSELF TAPE (MINERAL COATED)



MINERAL COATED

FEATURES	Unit	Sim Self Tape with Al.
Thickness	mm	2,5
Weight	Kg/m2	3
Width	cm	10-15-20-30-60
length	m	10
Carrier		polyester
Covering (Front)		Natural Mineral
Covering (back)		Detachable Film

Specially made of APP Modified and self adhesive bitumen. Contains polyester mat

COLORS: Natural Aluminium color, Red and Green.

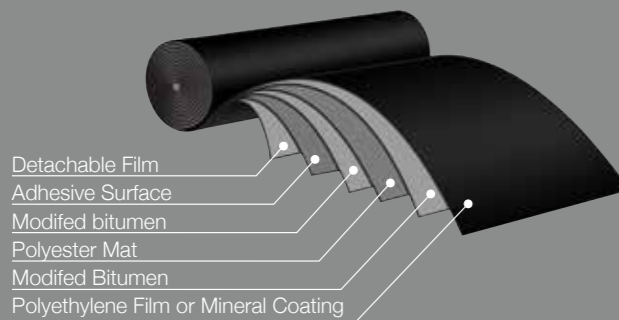
Each package: 6 m2

SIMSELF MEMBRANE (Self-Adhesive)

Simself are bitumen based self adhesive waterproofing membranes with polyethylene or colored natural mineral on one face and detachable folio on the other.

Areas of usage

Since Simself membranes can adhere to various surfaces such as wood, plastic, glass, mortar, concrete and more, they can be used on walls, parapets, chimney flashings, eaves, copings, gable walls, cracks in roof covering tiles, ship deck waterproofing, automotive industry, etc. Especially, where Shaluma Torch is risky or unsuitable to use. Simself can easily be applied on fine details. Its self-adhesive lower surface can easily be applied on heat insulation boards (XPS, EPS, etc.) and materials non resistant to heat such as plastic and wood. In addition, on curvilinear and skewed roofs, its use is very easy and it takes the form of the application surface.



FEATURES

Simself Membrane, which can be produced with mineral coating on one face, can be used as the uppermost layer material on covering. With its self adhesiveness, watertightness and resistance to structural movements, Simself Membranes bring practical solutions to many fine details. Thanks to its flexibility, comfortably applied on curvilinear or skewed surfaces. Produced in rolls of 1 meter width and 10 meters length.

The membrane becomes ready to stick when the film layer is peeled. But to provide a good adhesion, the application surface should be dry and clean. And on concrete surfaces, Standart bituminous primer should be applied prior to application and after the drying of the primer layer, Sim Self Membrane has to be stucked onto the already dry surface.

SimSelf Membrane (Self-Adhesive Bituminous Membrane)

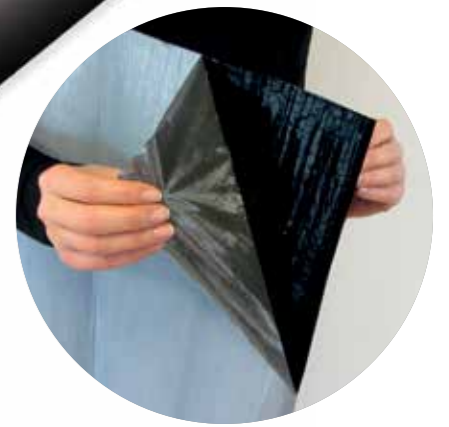
Features	Unit	SP 1500	SP 2000	SP 2500	"SP 35 AR Mineral Coated "	SP 1500" "Double-sided
Thickness (± 0.2)	mm	1,5	2,0	2,5	3,0	1,5
Weight (± 0.2)	Kg/m ²	2,0	2,5	3,0	3,5	2,0
Width	m	1	1	1	1	1
length	m	10	10	10	10	10
Carrier		polyester	polyester	polyester	polyester	polyester
Coating the surface		Polyethylene film	Polyethylene film	Polyethylene film	Color Mineral	Removable film
Coating substrates		Removable film	Removable film	Removable film	Removable film	Removable film

SIM SELF DOUBLE SIDED MEMBRANE (SELF ADHESIVE)

It is a both sided self adhesive polyester reinforced special polymer bituminous waterproofing membrane. It is used as first layer waterproofing at roofs and construction basements. It brings many practical solutions with its water tightness, compatibility to structures and self adhesiveness.

It can be applied to curved surfaces thanks to its flexibility, it is manufactured in 10 m length rolls with

1,5 mm, 2,0 mm and 3 mm thickness. In cases when shaluma torch is not preferred to use it can be cold applied. With this feature, it is especially preferred in the renovation of historical buildings. Thanks to its both sided self adhesive feature it achieves a strong adherence between substrate and the second layer membrane.



FEATURES

Application Areas: Since Simself membranes can adhere to various surfaces such as wood, plastic, glass, mortar, concrete and more, they can be used on walls, parapets, chimney ashings, eaves, copings, gable walls, cracks in roof covering tiles, ship deck waterproofing, automotive industry, etc. especially where Shaluma Torch is risky or unsuitable to use. Simself can easily be applied on fine details. Its self-adhesive lower surface can easily be applied on heat insulation boards (XPS, EPS, etc.) and materials non resistant to heat such as plastic and wood. In addition, on curvilinear and skewed roofs, its use is very easy and it takes the form of the application surface.

Method of application: After the film removal the membrane becomes available to adhesion to surface. Membrane is laid to surface directly to adhere the surface. After application, all surfaces especially overlays and joint points must be pressed with silicone rolls so that no bubbles are left and full adhesion is ensured. Before the second layer simself membrane is applied, the upper film of the first applied membrane should be removed and then the below film of the second layer membrane is removed and adhered to the first layer membrane.





INNOVATIVE PRODUCTS



SIM MARINE MEMBRANE

Sim marine membranes are SBS based bituminous elastomeric waterproofing membranes resistant to sea water.



Areas of usage

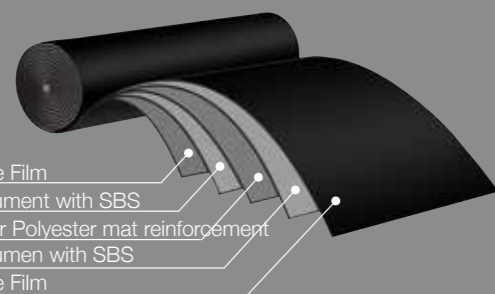
Harbors, port decks, bridge piers, marina construction and similar areas, structures and buildings on shores.

Features	Unit	Marine SP3000	Marine SP4000
Reinforcement		Polyester	Polyester
Thickness	mm	3	4
Weight	Kg/m ²	3,5	4,5
Width	m	1	1
Length	m	10	10
Heat resistance	°C	100	100
Cold Bending °C	°C	-20	-20
Longitudinal Tensile str.	N/5cm	800	800
Transverse Tensile Str.	N/5cm	600	600
Covering (Front)		Polyethylene	Polyethylene
Covering (back)		Polyethylene	Polyethylene

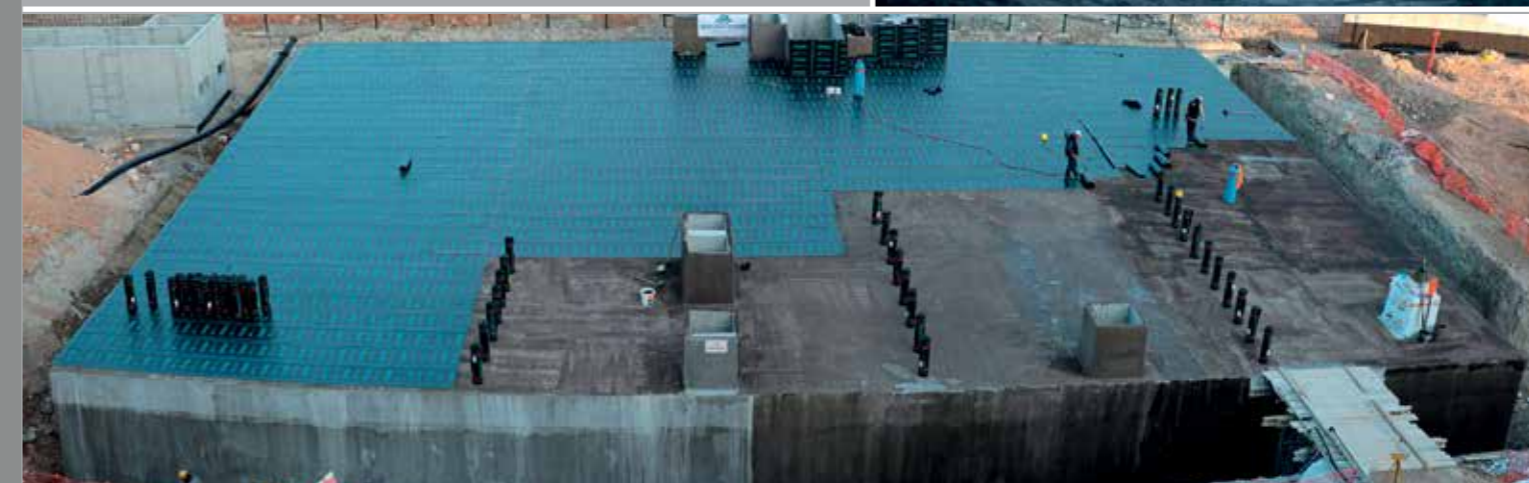
FEATURES

As known, sea water contains alkali metals, sulfate and some acids. It is necessary to prevent these substances from harming the structure and waterproofing layer protecting the structure. With special additives used in the chemical structure of the marine membrane, higher resistance against alkali metals, sulfate and some acids is achieved.

In this type of bituminous membranes, specially formulated elastomeric bitumen is used to enhance resistance to sea water. Polyester mat reinforcement is used to enhance the mechanical resistance to tension. Sim Marine membranes are produced in rolls of 1 meter width and 10 meters length.



Polyethylene Film
Modified bitumen with SBS
Fiberglass or Polyester mat reinforcement
Modified bitumen with SBS
Polyethylene Film





Sim Panda Via

A.P.P Modified bituminous waterproofing membranes to be used in hot, mild and continental (medium cold) climates. Produced at 1 meter width, 10 meters length and at 4 mm thick. Production with both faces polyethylene Im covered or one face polyethylene the other thin sand covered are possible. As reinforcement, polyester mat with high durability is used.

Sim Panda Via - Areas of usage

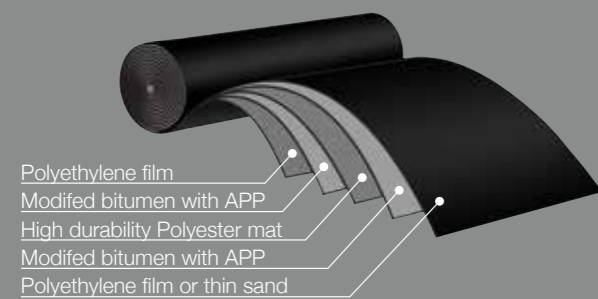
Especially for use in: bridges, viaducts, highways, parking areas, railroads and else areas with similar exposure to very high tension as well as any areas where water leaks into.

Sim Power Via

Sim Power Via membranes are double layer polyester mat reinforced, elastomeric (SBS modified) bituminous waterproofing sheets developed especially for structures exposed to extreme tension. Despite being elastomeric, Sim Power Via achieves resistance to very high temperature and with two separate reinforcements in its structure, exhibits an excellent performance against high tension.

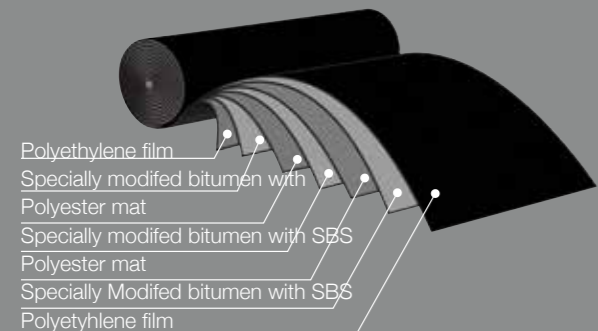
Sim Power Via - Areas of usage

Provides waterproofing solution to areas carrying moving loads such as bridges, viaducts, multi storey parking areas, etc. Since in new road projects, Polymeric bituminous mixtures are used in combination with SBS type of additives, SBS Modified bituminous membranes such as Sim Power Via are perfectly suitable for use in both new and old applications.



Sim Panda Via

Features	Unit	PANDA VIA SP 4000	PANDA VIA SP 4000 thin sand
Reinforcement		Polyester	Polyester
Thickness	mm	4	4
Weight	Kg/ m2	4,8	4,8
Width	m	1	1
Length	m	10	10
Heat resistance	°C	120	140
Cold flexibility	°C	-10	-10
Longitudinal Tensile str.	N/5cm	1000	1000
Transverse Tensile str.	N/5cm	800	800
Covering (Front)		Polyethylene	Thin sand
Covering (Back)		Polyethylene	Polyethylene



Sim Power Via

Features	Unit	POWER VIA SP 4000	POWER VIA SP 4000 thin sand
Reinforcement		Polyester	Polyester
Thickness	mm	4	4
Weight	Kg/ m2	4,8	4,8
Width	m	1	1
Length	m	10	10
Heat resistance	°C	140	140
Cold flexibility	°C	-20	-20
Longitudinal Tensile str.	N/5cm	1500	1500
Transverse Tensile str.	N/5cm	1200	1200
Covering (Front)		Polyethylene	Thin sand
Covering (Back)		Polyethylene	Polyethylene





SIM Garden MEMBRANE

SIM GARDEN ARMORED MEMBRANE

Standart Sim Garden series membranes are designed to suit Sim Garden and terrace roof details. The most critical element in Sim Garden roof and similar applications is the possibility of the plant roots destructing the waterproofing sheet. Sim Garden removes this possibility with its special formula and keeps the plant roots away from the waterproofing layer. Produced at 1 meter width and 10 meters length.

Sim Garden Membrane - Areas of usage

Generally used to achieve watertightness on terrace roofs of structures. In external basement tanking, foundation and curtain wall applications. On all surfaces in somehow contact with soil and on all surfaces, requiring flexibility, in contact with soil and water.

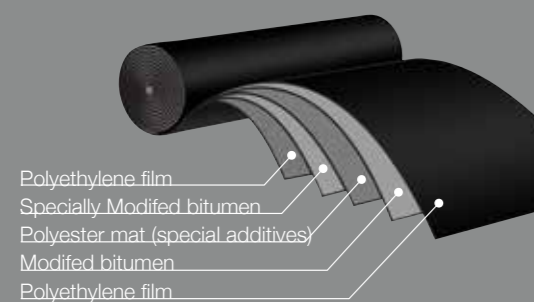
Sim Garden Armored Membrane - Areas of usage

Garden, Garden terrace, Garden balcony, parking area, etc. Also, for waterproofing in external basement tanking, foundation and curtain walls.

FEATURES

Sim Garden Membrane
Produced at 3 mm and 4 mm thicknesses. (SP 3000 and SP 4000). APP Modified bitumen produced as plastomeric sheet. Both surfaces laminated with polyethylene film layer.

Sim Garden Armored Membrane:
Armored Sim Garden Membrane is a waterproofing sheet developed to be used at places such as Sim Gardens and Sim Garden terraces. The basic differences from other bituminous sheets are its special formulation and root resistant film layer (metal-plastic compact carrier) in its structure. Thanks to its specially formulated mixture, Sim Garden does not allow the plant roots to pass through them while the special film layer is a very strong guard against even the strongest roots and keeps them away. Produced in rolls of 1 meter width and 10 meter length at 3 mm or 4 mm thicknesses. Elastomeric Armored Sim Garden is made of Styrene Butadine Styrene (SBS) Modified bitumen and plastomeric Armored Sim Garden is made of Atactic Polypropylene (APP) Modified bitumen.



Features	Unit	PLASTOMERIC		ELASTOMERIC	
		S.Armoured SP 3000	S.Armoured SP 4000	S.Armoured SP 3000	S.Armoured SP 4000
Reinforcement		Polyester + Special Armored Reinforcement			
Thickness	mm	3	4	3	4
Width	m	1	1	1	1
Length	m	10	10	10	10
Heat resistance	°C	120	120	100	100
Cold Bending	°C	-10	-10	-20	-20
Longitudinal Tensile strength	N/5cm	800	800	800	800
Transverse Tensile Strength	N/5cm	600	600	600	600
Covering (Front)		Polyethylene	Polyethylene	Polyethylene	Polyethylene
Covering (back)		Polyethylene	Polyethylene	Polyethylene	Polyethylene



Amastar
Amapolas
Amex 2k



LIQUID PRODUCTS

SIM ASTAR (Primer)

Standart ASTAR; a ready to use waterproofing material obtained by mixing water and bitumen through special methods.

Standart Astar is used before the Standart bituminous membrane application. With advanced adhesion feature gives the Standart bituminous membrane a more durable and spaceless adhesion.



Consumption: 400 g/m2 every use
Bucket: Net 17 kg / Plastic Bucket



Simex 2K

Enhanced bitumen based, double component, water based elastic waterproofing materials.



Areas of usage

- On vertical and horizontal surfaces, foundations and foundation curtain walls.
- Surfaces constantly under soil and in contact with water. external proofing of places such as cellars and basements.
- Wet areas such as bathrooms, kitchens and toilets.
- balconies and terraces (covering up).

Packing Style A+b component in 30 kg Plastic Bucket Liquid : 22 kg - Powder : 8 kg	Storage 5-30 C, vertically, in covered areas.	Consumption Used at 1,1 kg/m2 density The thickness depends on the structure of application surface and water pressure on the surface
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Features

- Easily applied (brush, roll or trowel)
- Adheres perfectly to mineral surfaces such as concrete, stone, brick, briquet.
- Flexible, crack covering capacity is high.
- Must be applied cold. Does not require heating or diluting.
- Water based. Environment friendly.

Application

- Because it does not contain amammable or toxic substances, usage in closed areas is safe.
- Applies seamlessly since there is no overlap or joint. Cures fast.
- Surface preparation must be done prior to installation. For this reason, necessary repairing must be done and the surface should be freed from dust, stain, oil and loose layers that will hamper adhesion.
- Chamfering must be done at corner turns.
- Should not be applied in rainy weather or at temperatures below +5 C.
- Angle the vertical and horizontal corners by chamfering.
- Apply with 70-90 g/m2 density special insulation net to bridge the vertical and horizontal joints and cracks and to solidify wide surfaces.
- To achieve good adhesion, apply standart primer on the surface.
- Dries in 1-2 hours depending on the weather conditions.
- Should be applied in two layers at least. Before one layer dries, the other layer should not be applied.

Simpolas

Bitumen based, rubber Modified, single component water bas flexible, liquid waterproofing materials. Its color is brown prior application. After drying its color turns blackish.



Areas of usage

- In wet areas such as bathrooms, kitchens and toilets.
- On vertical surfaces such as balconies and small terraces.
- Used as protection against moisture and on vertical surfaces such as curtain walls in foundations
- On multi storey insulations, roofs, balconies and wet areas with armatures like fiberglass, bituminous cardboard, canvas to achieve watertightness.

Packaging Style in 17 kg plastic bucket.	Storage 5-30 C. in vertical position in closed areas.
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Features

- Due to the special additives in its composition, highly durable , blanketing and flexible in comparison to traditional primers.
- Easily applied (Brush or roll)
- Must be applied cold. No heating or diluting required.
- Water based, environment friendly.
- Because it does not contain amammable or toxic substances, usage in closed areas is safe.
- Applies seamlessly since there is no overlap or joint.

Application:

- Because it fully adheres to surfaces, its watertightness is perfect.
- Can be applied on humid surfaces.
- A thicker bitumen layer can be obtained by adding fiberglass between layers.
- Surface preparation must be done prior to installation. For this reason, necessary repairing must be done and the surface should be freed from dust, stain, oil and loose layers that will hamper adhesion.
- Angle the vertical and horizontal corners by chamfering.
- To achieve a good adhesion to the surface, especially on not completely clean surfaces, water based Standart Bitumen Emulsion must be applied as a primer and be waited for to dry away prior to application.
- After opening and mixing thoroughly, apply the product on the surface using a roll or brush.
- Should not be applied in rainy weather or at temperatures below +5 C.
- Should be applied in two layers at least. Before one layer dries, the other layer should not be applied.
- A protective panel should be placed following the application on foundation curtain walls
- No pedestrian traffic or no kind of load should be allowed until drying is complete.
- Should be reinforced with fiberglass depending on the size of the application area.

SimPolax TS 103

Single component, cold applied bitumen solution.



Areas of usage

- When applied on building facades, keeps water and moisture out.
- Prevents moulding, paint deterioration and swelling on interior walls.
- SimPolax can be applied to keep away moisture on walls and floors in foundations and basements.
- Through use as primer in buildings at foundation and roof insulation, gives the bituminous layers a better adhesion to the application surface
- Prevents bitumen from being wasted on concrete surfaces
- On multi storey insulations, roofs, balconies and wet areas with armatures like fiberglass, bituminous cardboard, canvas to achieve watertightness.
- When applied on the metal surfaces of vehicles in contact with water, it prevents decaying.

FEATURES

- Must be applied cold.
- After the dissolution of the solvent a layer that looks like a paste and has strong adhesive characteristics.
- Starts to dry approximately 20 minutes after the application.
- Does not incorporate water.

Application

- Prevents corrosion when applied on metal surfaces that stay under or above soil.
- Application surfaces should be cleaned off dirt, oil and construction waste and be dry. As well as direct application, when needed, can be applied after adding gas and benzene on surfaces with brush
- in case of applications within closed environments, sufficient ventilation must be provided.
- Should not be applied in rainy weather or at temperatures below +5 C.

Packing Style	Storing	Consumption
17 kg (net) / cans	0-30 C. in vertical position and in closed areas.	Depending on the smoothness of the surface, 1,5 kg /m2 horizontal surfaces, 1, kg/m2 on vertical surfaces.

Simelax TS 103

Flexible, single component, synthetic rubber Modified, black colored, protective bituminous solution.



Areas of usage

- Permanent protection of concrete and metal surfaces
- Basement curtain walls, flower beds, etc.
- Wet areas such as bathrooms, kitchens and toilets
- In the protection of casting or metal elements such as tanks, pipes or channels against corrosion
- Domes, Cross Vaults, North facade wall applications.
- On multi storey insulations, roofs, balconies and wet areas with armatures like fiberglass, bituminous cardboard, canvas to achieve watertightness.

FEATURES

- Achieves high adhesion, flexibility, blanketing and watertightness due to the polymers in its chemical structure.
- Dries very fast on surfaces it is applied.
- Resistant to air pollution and atmospheric conditions.
- Black colored.

Application:

- Ready to use right out of the box
- Application surfaces should be cleaned off dirt, oil and construction waste and be dry.
- Must be applied cold.
- Can be applied with brush, roll or pulverizator.
- Depending on the condition of the surface and purpose, the number of layers is determined. Should be applied at least in two layers.
- Solvent based primer can be used to enhance adherence.
- Organic solvents can be used for cleaning.
- Should not be applied under precipitation and at temperatures below +5 C.
- in case of applications within closed environments, sufficient ventilation must be provided.

Packing Style	Storing	Consumption
in 17 kg cans	0-30 C. in vertical position in enclosed areas.	Depending on the absorbancy of the surface, 1,0 kg/ m2 at least for two layers on concrete surfaces. At least 0,7 kg/m2 should be used on metal surfaces.



simplan

SYNTHETIC
WATERPROOFING
SHEETS

PVC

Homogenous, UV resistant,
Reinforced, PVC Waterproofing
Membranes

TPO

UV resistant, Reinforced,
TPO Roofing Membranes with
Geotextile Fleece

simplan

SYNTHETIC
WATERPROOFING
SHEETS

■ PVC ■ TPO

SIMPLAN
SYNTHETIC SHEETS

SIMPLAN BASECAP

Homogenous PVC Waterproofing Membrane UV incompetent, vapor permeable, without reinforcement SOFT PVC waterproofing Membrane. it can be adhered with hot air welder.

APPLICATION AREAS:

- Building foundation and wall waterproofing
- Waterproofing of underground galleries
- Ballasted Roofs
- Wet areas
- Highway, subway tunnels
- Hangar and planking
- Concrete Roofs
- Building Dilatation Systems

APPLICATION ADVANTAGES:

- High Quality meeting EN 13967 Quality Standards
- Vapor Permeable structure
- Plant Root Resistance
- Recyclable environment-friendly material that includes no heavy metal
- Homogenous product against corrosion and dissolution
- Highflexibility value. Material which has dimensional stability
- Ability to maintain its flexibility in -25C degrees temperature
- High tear resistance and impact strength
- Qualified and easy application options with heat air welder.
- Provides waterproofing in temperatures between -35 C and +85 C degrees



Features	Minimum Required Value	Test Result	Unit	Test Method
Determination of watertightness	Impermeable	Impermeable	-	EN 1928 (B)
Determination of watertightness post aging test	Impermeable	Impermeable	-	EN 1296 ve EN 1928 (A)
Determination of visible defects	No defect	No defect	-	EN 1850-2
Tensile strength	> 15	> 18	N/mm2	EN 12311-2
Flexibility/ Elongation at break	> 250	> 300	%	EN 12311-2
Resistance to static loading	> 20	> 22	Kg	EN 12730 (B)
Resistance to impact	> 450	> 800	mm	EN 12691 (A)
Resistance to tearing (nail shank)	> 300	> 330	N	EN 12310-1
Reaction to Fire	E Class	E Class	-	EN 13501-1
Shear resistance of joints	> 600	> 800	N/50mm	EN 12317-2
Water vapour transmission properties	25500±7500	25500±7500	μ	EN 1931
Determination of peel resistance of joints	> 150	> 155	N/50 mm	EN 12316-2
Dimensional Stability	< 2	< 2	%	EN 1107-2
Determination of foldability at low temperature	< - 25	< - 25	°C	EN 495-5

Product Sizes :

Thickness	Width	Length	Colour*	Roll m ²	Roll Weight
1,2 mm	2 mt	25	Black	50 m ²	81 kg
1,5 mm	2 mt	20	Black	40 m ²	81 kg
1,8 mm	2 mt	20	Black	40 m ²	97 kg
2,0 mm	2 mt	15	Black	30 m ²	84 kg

(*) Different colors available on demand



SIMPLAN BASECAP SIGNAL

Homogenous PVC Waterproofing Membrane UV incompetent, vapor permeable, without reinforcement , SOFT PVC waterproofing with signal layer. it can be adhered with hot air welder.

APPLICATION AREAS :

- Building foundation and wall waterproofing
- Ballasted Roofs
- Wet areas
- Waterproofing of underground galleries
- Highway and subway tunnels
- Hangar and planking
- Concrete Roofs
- Dilation of Building Systems

APPLICATION ADVANTAGES :

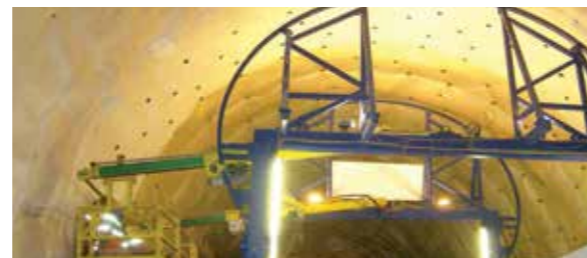
- High Quality meeting EN 13967 Quality Standards
- Vapor Permeable structure
- Plant Root Resistance
- Recyclable environment-friendly material that includes no heavy metal
- Homogenous product against corrosion and dissolution
- High flexibility value. Material which has dimensional stability Ability to maintain its flexibility in -25C degrees temperature
- High tear resistance and impact strength
- Qualified and easy application options with heat air welder.
- Provides waterproofing in temperatures between -35 C and +85 C degrees



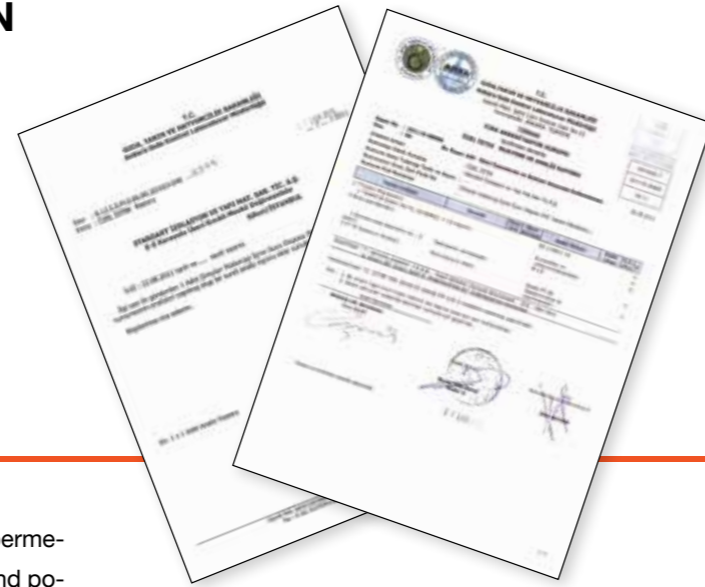
Features	Minimum Required Value (EN)	Test Result	Unit	Test Method
Determination of watertightness	Impermeable	Impermeable	-	EN 1928 (B)
Determination of watertightness post aging test	Impermeable	Impermeable	-	EN 1296 ve EN 1928 (A)
Determination of visible defects	No defect	No defect	-	EN 1850-2
Tensile strength	> 15	> 18	N/mm ²	EN 12311-2
Flexibility/ Elongation at break	> 250	> 300	%	EN 12311-2
Resistance to static loading	> 20	> 22	Kg	EN 12730 (B)
Resistance to impact	> 450	> 800	mm	EN 12691 (A)
Resistance to tearing (nail shank)	> 300	> 330	N	EN 12310-1
Reaction to Fire	E Class	E Class	-	EN 13501-1
Shear resistance of joints	> 600	> 800	N/50mm	EN 12317-2
Water vapour transmission properties	25500±7500	25500±7500	μ	EN 1931
Determination of peel resistance of joints	> 150	> 155	N/50 mm	EN 12316-2
Dimensional Stability	< 2	< 2	%	EN 1107-2
Determination of foldability at low temperature	< - 25	< - 25	°C	EN 495-5

Product Sizes :

Thickness	Width	Length	Colour*	Roll m ²	Roll Weight
1,2 mm	2 mt	25	Yellow-Black	50 m ²	81 kg
1,5 mm	2 mt	20	Yellow-Black	40 m ²	81 kg
1,8 mm	2 mt	20	Yellow-Black	40 m ²	97 kg
2,0 mm	2 mt	15	Yellow-Black	30 m ²	84 kg



(*) Different colors available on demand



SIMPLAN WATERCAP

Homogenous PVC Waterproofing Membrane for Drinking Water Reservoirs

Vapor permeable, without reinforcement, Anti - Bacterial, applied to drinking and potable water tanks SOFT PVC waterproofing membrane. It can be adhered with hot air welder easily.

APPLICATION AREAS :

- Drinking Water Reservoirs and Tanks as Top Layer ■ Water Channels and Water Tanks as Top Layer
- Drinking and Potable water transmission systems

APPLICATION ADVANTAGES :

- High Quality meeting EN 13967 Quality Standards ■ Vapor Permeable structure ■ Antimicrobial Features ■ Does not change of water physical and chemical properties ■ Does not permit generation of bacteria and mosses on the surface.
- Recyclable environment-friendly material that includes no heavy metal ■ High flexibility value. Dimensionally stable material
- Ability to maintain its flexibility in -25C degrees temperature ■ High tear resistance and impact strength ■ Qualified and easy application options with heat air welder ■ Provides waterproofing in temperatures between -35 C and +85 C degrees
- Homogeneous product that has dissolution and decomposition resistances



Features	Minimum Required Value (EN)	Test Result	Unit	Test Method
Determination of watertightness	Impermeable	Impermeable	-	EN 1928 (B)
Determination of watertightness post aging test	Impermeable	Impermeable	-	EN 1296 ve EN 1928 (A)
Determination of visible defects	No defect	No defect	-	EN 1850-2
Tensile strength	> 15	> 18	N/mm ²	EN 12311-2
Flexibility/ Elongation at break	> 250	> 320	%	EN 12311-2
Resistance to static loading	> 20	> 20	Kg	EN 12730 (B)
Resistance to impact	> 450	> 900	mm	EN 12691 (A)
Resistance to tearing (nail shank)	> 300	> 330	N	EN 12310-1
Reaction to Fire	E Class	E Class	-	EN 13501-1
Shear resistance of joints	> 600	> 750	N/50mm	EN 12317-2
Water vapour transmission properties	25500±7500	25500±7500	μ	EN 1931
Determination of peel resistance of joints	> 150	> 155	N/50 mm	EN 12316-2
Dimensional Stability	< 2	< 2	%	EN 1107-2
Determination of foldability at low temperature	< - 25	< - 25	°C	EN 495-5

Product Sizes :

Thickness	Width	Length	Colour*	Roll m ²	Roll Weight
1,2 mm	2 mt	25	Blue	50 m ²	81 kg
1,5 mm	2 mt	20	Blue	40 m ²	81 kg
1,8 mm	2 mt	20	Blue	40 m ²	97 kg
2 mm	2 mt	15	Blue	30 m ²	84 kg

(*) Different colors available on demand



SIMPLAN LAKECAP - UV

Homogenous PVC Lake Membrane UV resistant, vapor permeable, without reinforcement PVC Waterproofing Membranes have plant root resistance, they can be used for artificial lakes and dam applications and can be adhered with hot air welder.

APPLICATION AREAS :

■ Construction of artificial lakes as Top layer. ■ Construction Garden pools and fish lakes. ■ Construction Decorative pools and lakes.

APPLICATION ADVANTAGES :

■ High Quality meeting EN 13967 Quality Standards ■ Vapor Permeable structure ■ Plant Root Resistance ■ UV Resistant / ■ Durable against atmosphere conditions ■ Recyclable environment-friendly material that includes no heavy metals ■ Homogenous product that has dissolution and decomposition resistances ■ High flexibility value. Material which has dimensional stability ■ Ability to maintain its flexibility in -25C degrees temperature ■ High tear resistance and impact strength ■ Qualified and easy application options with heat air compressor ■ Provides waterproofing in temperatures between -35 C and +85 C degrees



Features	Minimum Required Value (EN)	Test Result	Unit	Test Method
Determination of watertightness	Impermeable	Impermeable	-	EN 1928 (B)
Determination of watertightness post aging test	Impermeable	Impermeable	-	EN 1296 ve EN 1928 (A)
Determination of visible defects	No defect	No defect	-	EN 1850-2
Tensile strength	> 15	> 18	N/mm2	EN 12311-2
Flexibility/ Elongation at break	> 250	> 320	%	EN 12311-2
Resistance to static loading	> 20	> 20	Kg	EN 12730 (B)
Resistance to impact	> 450	> 900	mm	EN 12691 (A)
Resistance to tearing (nail shank)	> 300	> 330	N	EN 12310-1
Reaction to Fire	E Class	E Class	-	EN 13501-1
Shear resistance of joints	> 600	> 750	N/50mm	EN 12317-2
Water vapour transmission properties	25500±7500	25500±7500	μ	EN 1931
Determination of peel resistance of joints	> 150	> 155	N/50 mm	EN 12316-2
Dimensional Stability	< 2	< 2	%	EN 1107-2
Determination of foldability at low temperature	< - 25	< - 25	°C	EN 495-5

Product Sizes :

Thickness	Width	Length	Colour*	Roll m ²	Roll Weight
1,5 mm	2 mt	20	Yellow	40 m ²	81 kg
1,8 mm	2 mt	20	Yellow	40 m ²	97 kg
2,0 mm	2 mt	15	Yellow	30 m ²	84 kg

(*) Different colors available on demand

SIMPLAN LAKECAP - UV PLUS

UV Resistant, Polyester Reinforced PVC Lake Membrane UV resistant, polyester reinforced and vapor permeable REINFORCED PVC Waterproofing Membranes have plant root resistance, they can be used for artificial lakes and dam applications and can be adhered with hot air welder.

APPLICATION AREAS :

■ Used in dam applications ■ Used in irrigation channels in agricultural lands ■ Used as final layer while constituting artificial lakes ■ Used for constituting Garden and fish artificial lakes. ■ Used for constituting ornamental pools and decorative lakes.

APPLICATION ADVANTAGES :

■ High Quality meeting EN 13956 Quality Standards ■ Vapor Permeable structure ■ Plant Root Resistance ■ UV Resistant / Durable against atmosphere conditions ■ Recyclable environment-friendly material that includes no heavy metal ■ Polyester reinforced product that has dissolution and decomposition resistances. ■ High flexibility value. Material which has dimensional stability ■ Free layout usage feature by means of mechanically xing method ■ Ability to maintain its flexibility in -25C degrees temperature ■ High tear resistance and impact strength ■ Qualified and easy application options with heat air welder ■ Provides waterproofing in temperatures between -35 C and +85 C degrees



Product Sizes :

Thick-ness	Width	Length	Colour*	Roll m ²	Roll Weight
1,5 mm	2.10 mt	20	Yellow	42 m ²	87 kg
1,8 mm	2.10 mt	20	Yellow	42 m ²	104.5 kg
2,0 mm	2.10 mt	15	Yellow	31.5 m ²	89 kg

(*) Different colors available on demand



Features	Test Result	Unit
Determination of visible defects	No defect	-
Determination of watertightness	> 420	KPa
Resistance to root penetration	Feasible	-
UV resistance (1000 h)	Resistant	-
Shear resistance of joints	> 850	N/50 mm
Resistance to static loading	> 25	Kg
Flexibility/ Elongation at break	> 35	%
Resistance to impact	850	mm
Water vapour transmission properties	25000±7500	μ
Resistance to tearing (nail shank)	> 220	N
Tensile strength	>1100	N/50 mm
Determination of peel resistance of joints	> 300	N/50 mm
Determination of foldability at low temperature	<- 25	°C
Dimensional Stability	< 1	%
Hail resistance	> 19	m/s



SIMPLAN ROOFCAP - UV

UV Resistant, Polyester Reinforced PVC Roof Membrane UV resistant, polyester reinforced and vapor permeable REINFORCED PVC Waterproofing Membranes have plant root resistance, they can be used for roof waterproofing applications and can be adhered with heat air welder.

APPLICATION AREAS :

■ Steel roofs and ligh metal roofs ■ Garden terrace roofs ■ Parking lot terrace roofs ■ Concrete roofs and parapets

APPLICATION ADVANTAGES :

■ High Quality meeting EN 13956 Quality Standards ■ Vapor Permeable structure ■ Plant Root Resistance ■ UV Resistant / Durable against atmosphere conditions ■ Recyclable environment-friendly material that includes no heavy metal
 ■ Polyester reinforced product that has dissolution and decomposition resistances. ■ High flexibility value. Material which has dimensional stability ■ Free layout usage feature by means of mechanically xing method ■ Ability to maintain its flexibility in -25C degrees temperature ■ High tear resistance and impact strength ■ Qualified and easy application options with heat air welder ■ Provides waterproofing in temperatures between -35 C and +85 C degrees



Features	Minimum Required Value (EN)	Test Result	Unit	Test Method
Determination of visible defects	No defect	No defect	-	EN 1850-2
External fire exposure	B Roof (t1)	Feasible	-	EN 13501-5
Reaction to Fire	E Class	E Class	-	EN 13501-1
Determination of watertightness	> 400	> 420	KPa	EN 1928 (B)
Resistance to root penetration	Feasible	Feasible	-	EN 13948
UV resistance (1000 h)	Resistant	Resistant	-	EN 1297
Shear resistance of joints	> 800	> 800	N/50 mm	EN 12317-2
Resistance to static loading	> 20	> 25	Kg	EN 12730 (B)
Flexibility/ Elongation at break	> 15	> 35	%	EN 12311-2
Resistance to impact	> 400	900	mm	EN 12691 (A)
Water vapour transmission properties	25000±7500	25000±7500	μ	EN 1931
Resistance to tearing (nail shank)	> 180	> 220	N	EN 12310-2
Tensile strength	> 800	>1000	N/50 mm	EN 12311-2
Determination of peel resistance of joints	> 200	> 300	N/50 mm	EN 12316-2
Determination of foldability at low temperature	< - 25	<- 25	°C	EN 495-5
Dimensional Stability	< 1	< 1	%	EN 1107-2
Hail resistance	> 17	> 19	m/s	EN13583

Product Sizes :

Thickness	Width	Length	Colour*	Roll m ²	Roll Weight
1,2 mm	2,10 mt	25	Gray / Black	52,5 m ²	87 kg
1,5 mm	2,10 mt	20	Gray / Black	42 m ²	87 kg
1,8 mm	2,10 mt	20	Gray / Black	42 m ²	104,5 kg
2,0 mm	2,10 mt	15	Gray / Black	31,5 m ²	89 kg



(*) Different colors available on demand



SIMPLAN TPO ROOF COVER

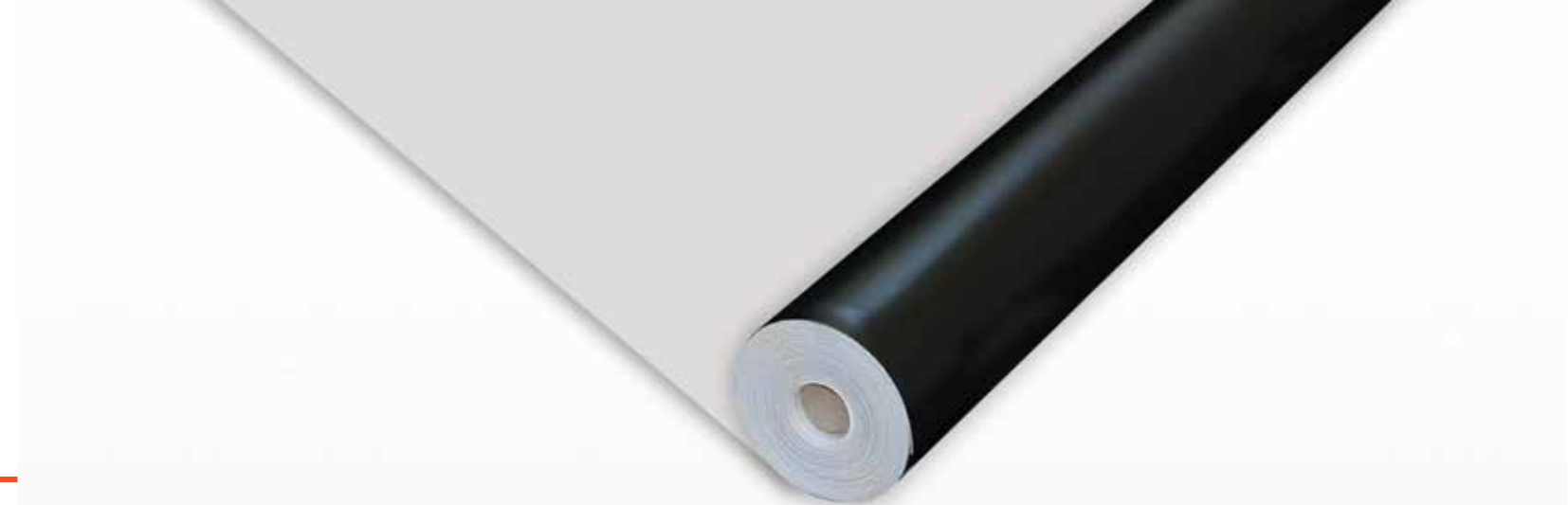
UV Resistant, Polyester Reinforced TPO Roof Membrane UV resistant, polyester reinforced and vapor permeable REINFORCED TPO Waterproofing Membranes have plant root resistance, they can be used for roof waterproofing applications and can be adhered with heat air welder.

APPLICATION AREAS: :

- Steel roofs and ligh metal roofs ■ Garden terrace roofs ■ Parking lot terrace roofs ■ Concrete roofs and parapets

APPLICATION ADVANTAGES

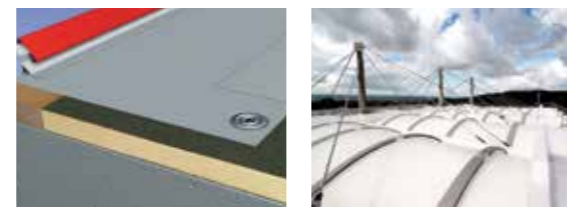
- High Quality meeting EN 13956 Quality Standards ■ Vapor Permeable structure ■ Plant Root Resistance ■ UV Resistant / Durable against atmosphere conditions ■ Recyclable environment-friendly material that includes no heavy metal
- Polyester reinforced product that has dissolution and decomposition resistances. ■ High flexibility value. Material which has dimensional stability ■ Free layout usage feature by means of mechanically fixing method ■ Ability to maintain its flexibility in -25C degrees temperature ■ High tear resistance and impact strength ■ Qualified and easy application options with heat air welder ■ Provides waterproofing in temperatures between -35 C and +85 C degrees



Features	Minimum required value (En)	Test Result	Unit	Test Method
Determination of visible defects	No defect	No defect	-	EN 1850-2
External fire exposure	B _{Roof(t)}	Feasible	-	EN 13501-5
Reaction to Fire	E Class	E Class	-	EN 13501-1
Determination of watertightness	Impermeable	Impermeable	-	EN 1928 (B)
Resistance to root penetration	Feasible	Feasible	-	EN 13948
UV resistance (1000 h)	Resistant	Resistant	-	EN 1297
Shear resistance of joints	>600	>800	N/50 mm	EN 12317-2
Resistance to static loading	>20	>25	Kg	EN 12730 (B)
Flexibility/ Elongation at break	>15	>21	%	EN 12311-2
Resistance to impact	>400	600	mm	EN 12691 (A)
Resistance to tearing (nail shank)	>180	>320	N	EN 12310-2
Tensile strength	>800	>1000	N/50 mm	EN 12311-2
Determination of peel resistance of joints	>200	>280	N/50 mm	EN 12316-2
Determination of foldability at low temperature	<-25	<-25	°C	EN 495-5
Dimensional Stability	< 1	< 1	%	EN 1107-2
Hail resistance	>17	>22	m/s	EN13583

Product Sizes :

Thickness	Width	Length	Colour*	Roll m ²	Roll Weight
1,1 mm	2,10 mt	30	Gray / Black	63 m ²	90 kg
1,2 mm	2,10 mt	30	Gray / Black	63 m ²	98 kg
1,5 mm	2,10 mt	20	Gray / Black	42 m ²	82 kg
1,8 mm	2,10 mt	15	Gray / Black	31,5 m ²	74 kg



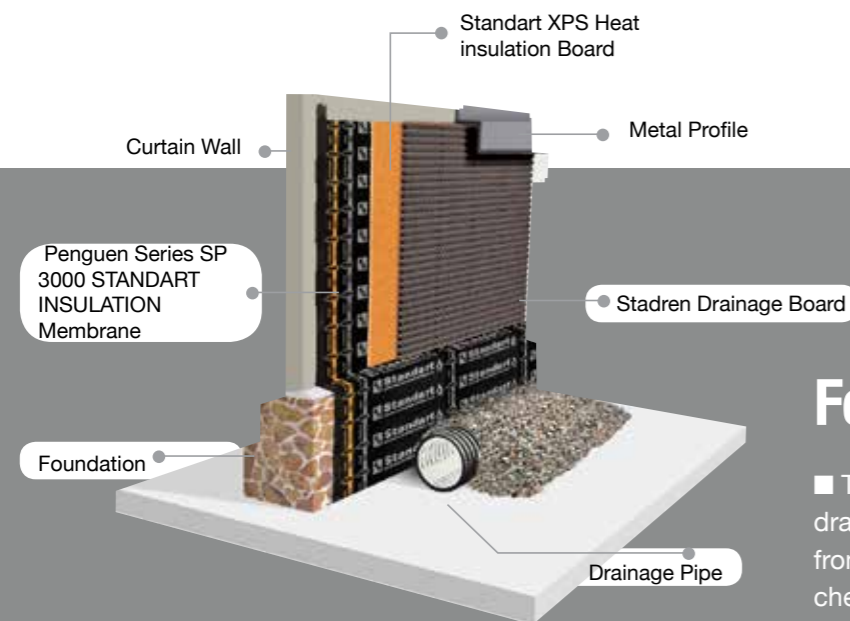
(*) Different Colors Are Possible According To Demand



COMPLEMENTARY PRODUCTS

SIM DRAINAGE BOARD UNO DRAINAGE BOARD

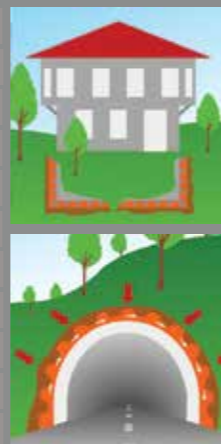
Made of high density polyethylene Stadren Drainage boards ,with their dimpled structure, separates the building from soil thereby providing water drainage. Protects the heat and water proofing materials on curtain walls from plant roots, various chemicals and the mechanical effects of earth fill. In terrace Garden applications and on surfaces with no static load, the drainage boards are used as a substitute for lean concrete as they are very useful, functional, cost saving as well as being environment friendly.



Features

■ Through convenient application, Stadren drainage boards help keep your building safe from water, soil and the harmful effects of various chemicals.

FEATURES	STADREN 400	STADREN 500	STADREN 600
RAW MATERIAL	HDPE		
THICKNESS	0.4 mm	0.5 mm	0.6 mm
DIMPLE HEIGHT	8.0 mm	8.0 mm	8.0 mm
WEIGHT	450-500 g/m ²	550-600 g/m ²	650-700 g/m ²
PRESSURE RESISTANCE	170 kN/m ²	230 kN/m ²	320 kN/m ²
UNDER SOIL RESISTANCE	Against plant roots, impacts and all chemicals.		
HEAT RESISTANCE	BETWEEN 30 C AND 80 C		
COLOR	Black		
ROLL LENGTH	20 mt		
ROLL WIDTH	2 mt		



Areas of Usage

- Floors, basements and curtain walls
- Terrace Roof applications
- Parking Areas
- Tunnels
- Generally in all structures that must be protected from water and its consequential pressure



SIM FIX

Polyurethane Sealant

Sim Fix is a single-component, moisture curing, polyurethane-based sealant material.

Usage and application area

Is capable of adhesion to cement-based building materials, brick, ceramic, marble, glass, wood, galvanize steel, aluminum and most plastic surfaces. Used in construction industry, in the cavities of the joints between building elements. Used for joints and assembly of aluminum, PVC, wooden framing. Used for laying of roof tiles.



600ml



300ml

Features

- One-component.
- Easy application with gun.
- Thixotropic.
- Cures with the humidity in the air.
- Paintable
- No volume change.
- Resistant to weather conditions and water.
- Permanent elasticity.



Simplan PVC

Complementary Products



Parapet Strainer Outlets
1- Round outlet parapets (Ø50 – Ø70 -Ø100)

As with all of our other products, parapet finished outlets show a precise and perfect combination with our insulation solutions and materials resulting in perfect waterproofing.



Strainers with vertical outlets
Product Description (Ø50 – Ø70 -Ø100 -Ø125 -Ø150)

Balcony and terrace outlets with vertical downslopes are manufactured specially from single piece PVC. This piece, removes the possibility of water leaks at risky points. Its lower surface is flexible and resistant to heat and gives a perfect weatherproof and leak free welding.

Ventilation Shafts

Ventilation Shafts help keeping the insulation layer dry by transferring out the moisture and vapor inside the structure and should be used at every 25-50 meters.



Leaf holders

On sloped roofs into the PVC drain holes and on terrace roofs without ceramic or tiles or ventilation shafts, leaf holders are used to prevent large objects from blocking the pipes. Resistant to UV rays, climate conditions and chemical substances.

Application:The lower part of the leaf holder is pressed into the mouth of the drainage pipe to achieve a tight positioning.

Sizes: is available for use at all diameters between 50 and 160 mm.



Inner and Outer Corner Apparatus

in terms of waterproofing water tanks, terrace roofs are risky places when it comes to covering corners. These materials can be used at such places.



TWIN DRAINAGE SYSTEMS and ACCESSORIES

Usage:

On terraces, roofs and balconies, water, once inside, travels along the insulation layer down to the drainage pipe. The pooling water can not evaporate and continues its journey into deeper layers, consequently leading to dark spots due to moisture. The twin drainage system is used to prevent these dark spots. The medium piece that connects to the lower drainage piece is made of polypropylene, seats perfectly into lower drainage piece and, thanks to the 0,6 mm gaps, makes up another drainage helping the leaking water flow into the drainage pipes.



Flanged Strainer Waterproofing Systems

System Parts

- a) Body – Lower outlet – Side Outlet
- b) Flange ring
- c) Upper strainer body
- d) Upper strainer grid
- e) Odor Filter Piece

Usage:

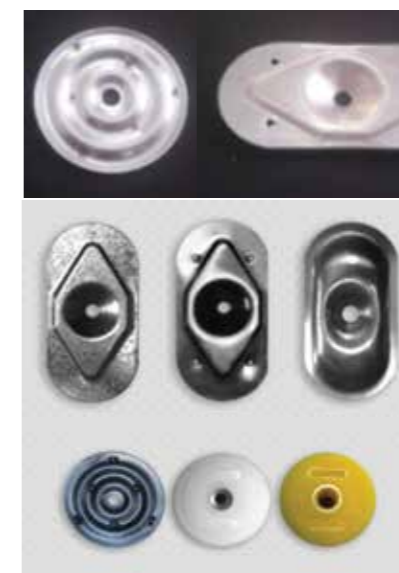
The chosen strainer body is seat-

ed into the laying and mounted on the pipe. The flange ring is placed, the height of the strainer filter is adjusted and then the flange ring is fastened. The holes aside the upper strainer body are to drain the remaining water directly into the drainage pipe. The channels on the outer surface of the body can be cut during height adjustment and when needed they can be slot into each other. The grids we produce at 10*10 cm and 15*15 cm give you more choices.

Roof Connection Elements. Fixings

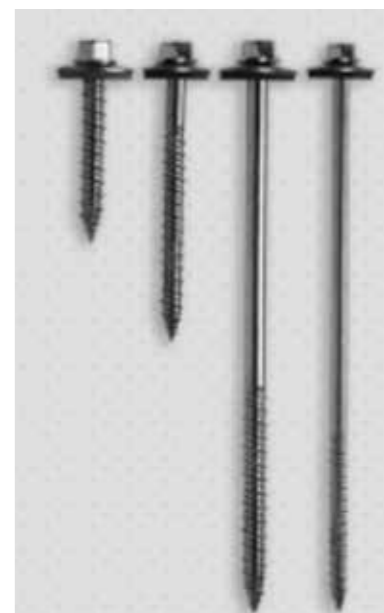
We have two types of fixings.

- 1- Clawed Concave Fixings
- 2- Round Fixings



Screws

We have 5 different screws:
1-Concrete screws 2-Trapezoidal screws
3-Panel screws 4-insulation screws 5-Wood Screws



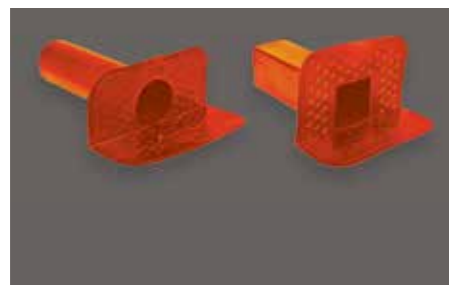
Sim Bituminous Membranes Complementary Products



Twin Loss System and Accessories

It proceeds on the insulation layer until the points where discharge pipes are located after reaching the water insulation layer on terrace roofs and balconies. The water accumulating on this point proceeds towards lower layers as it does not evaporate and it causes the formation of damp-related black stains.

Twin loss system is used to prevent such stains. The connecting piece enabling connection to the lower loss part is made up of propylene. It fits to the lower loss part perfectly and makes the leaking water flow into discharge pipes by constituting a second loss line thanks to the 0.6mm gaps.



Parapet Filters

We have two parapet output filter models.

1- Vertical Outlet Parapet (10 X 10cm square)

2- Round Outlet Parapet (Ø50 - Ø70 -Ø100) Trouble-free impermeability can be achieved by maintaining a perfect harmony through the insulation materials and methods used as in our other products.



Filters Vertical Outlets

Product Introduction :

(Ø50 - Ø70 -Ø100 -Ø125 -Ø150) Vertical outlet and terrace outlet materials are produced as single parts from a special material called dutrel. This part removes the water leakage risk on potential points. They get into other water insulation materials especially bitumen water insulation covers.

Their lower surfaces are elastic and heat resistant. Thus, it enables a wonderful connection which you can combine with bitumen water insulation covers as well as other insulation covers in a perfect way. This connection has no leakage risks and it is never affected by thermal changes.



Sliding Insulation Systems Compatible Expense

System Parts

a) Loss Body

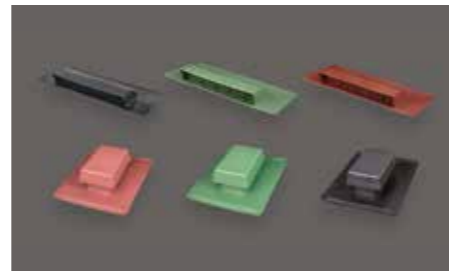
With Bottom Output (2001, 2002, 2048)

With Side Output (2000, 2004, 2005)

b) Upper filter grid (1010, 1011, 2010)

c) Anti-odor connection part (1015)

Anti-odor connection part can be used only for side outputs.



Shingle Ventilation Shaft

Membrane Ventilation Shaft h=32cm Inclined Roof (Shingle) Ventilation Shaft: Shingle ventilation shafts are used if the roof insulation covers located on inclined roofs are shingle or slated. Usage number varies according to the roof bent.

Straight Model (Black - Red - Green) Capped Model (Black - Red - Green)

Model	Straight	Capped
Width	300	340
Length	505	440
Height	60	115



Modular Water Channels

They were produced in such a way that they can be connected to each other without any joints. They can be connected to discharge pipes easily on their bottom or either side based on the need.

Side doors are produced to enable being used on both ends of the channel. 200*125*500mm channel gutters have Ø 70 - Ø 100 outputs.

Points to be taken into consideration: Our channel patterns have a load bearing capacity of 1.5 tons.



Leaf Holders

It is used on inclined roofs for preventing leaves and similar objects from falling into PVC roof valleys. It is also used on terrace roofs and ventilation shafts on which ceramics or tiles have been paved for preventing leaves and similar objects (objects big enough to block the pipes) from falling into pipes. It is not affected by ultraviolet rays, climate conditions and chemical substances.

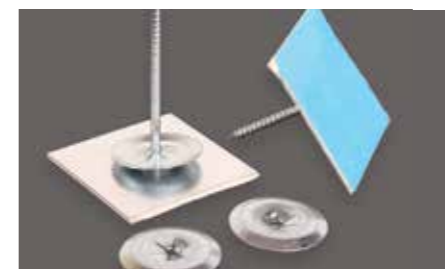
Application: Leaf holder is made to stay inside the discharge pipe by compressing and inserting it into the discharge pipe.

Measure: It is appropriate to be used for all diameters from 50 to 160 mm.



Apparatus Inner and Outer Corner

These are the auxiliary materials facilitating the application on corner turns which constitute the risky areas in terrace water insulation application.



Standart insulation Pins

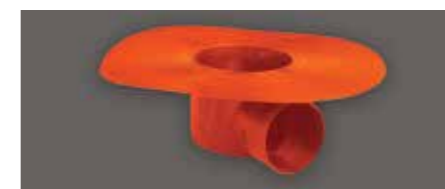
Used to fasten insulation materials on vertically sloped surfaces. Self adhesive Standart pins can only be used on smooth, plain, clean and dry surfaces. The sticky surface should not be touched. Metal surface or ambient temperature should be no more than 5 C. The expected adhesion comes 12 hours later. The amount to be used depends on density or weight of the material, temperature and the surface conditions. In many applications, depending on the surface and construction site conditions, 5 -9 pieces/ m2 are generally sufficient.

A-METAL POLYETHYLENE INSULATION PIN

STANDARD PIN	Package Quantity
40 MM (4 CM)	500 Pcs
60 MM (6 CM)	500 Pcs

B-PLASTIC BITUMEN INSULATION PIN

STANDARD PIN	Package Quantity
40 MM (4 CM)	500 Pcs
60 MM (6 CM)	500 Pcs



Horizontal Outlet Strainers

Designed to complete the drainage pipes used in all horizontal outlet terrace and roof strainers and shares all the features with the vertical outlet version. It comes in 50 70 and 100 mm diameters.



Flanged Waterproofing Systems Expense

System Parts

a) Loss Body-Bottom Output-Side Output

b) Flange Ring

c) Upper filter body

d) Upper filter grid

e) Anti-odor connection part

Use : Chosen loss body is placed on the flooring and adapted into the PVC pipe. If sliding materials are to be used as insulation materials, the loss line will be integrated into concrete flooring thanks to the file you put under the body. Flange ring is fixed after it is located in its place and the height of the upper filter body to be placed on top is adjusted.

The gaps near upper filter body enable leaking water to go directly in to the discharge pipe. The channels on the outer surface of body have been designed in such a way that they can be cut off while adjusting the height and when necessary their height can be increased by inserting them into each other. Plastic and stainless grids we produce in 10*10cm and 15*15cm sizes give you a chance to make your choice.



Ventilation Shafts

Ventilation Shafts help keeping the insulation layer dry by transferring out the moisture and vapor inside the structure and should be used at every 25-50 meters in bituminous membrane applications.



Sim Shingle nails

It is sold in 2.5kg boxes (sizes 1,5cm-2cm-2,50cm-3,00cm)

Geotextile Fleece

Due to its high puncture resistance fleece protects materials from impacts, enables various working

styles and prevents cement grout from leaking down.

- Because it helps spread the pressure, it is used for waterproofing in building foundations.
- Protects the geomembranes applied on exposed surfaces against tearing and overfriction.

Especially:

in building foundations, foundation walls, curtains, terraces, roofs, metro tunnels and roadway tunnels.

Flashing:

These aluminium materials are used in watertanks, parapets, curtain insulation, at the beginning and nishing of drainage boards and geomembranes; helping downwards like a curtain; and as well, help keeping water away from seeping between the membrane and the Wall.



HEAT INSULATION

SIMBOARD XPS (Extrude Polystyrene Sheets)

Used in exterior and interior insulation, roof thermal insulation, XPS is made from polystyrene which is obtained through the polymerization of petroleum byproduct styren monomer.

Some instances of installation are:

- Plain terraces and sloped roofs
- Under the balconies
- Unwarmed areas like garages and warehouses
- Plumbing pipes
- Ventilation channels

Considering the need for the energy in the cooling of the buildings is around 4 times as much as the energy needed for heating, the total energy consumption of Turkey can be reduced by 15-20%.



Panel Dimensions

Dimension:Width60 X Length
125-300 mm

Thickness: 2-3-4-5-6-7-8cm

Length/width tolerance (per meter)

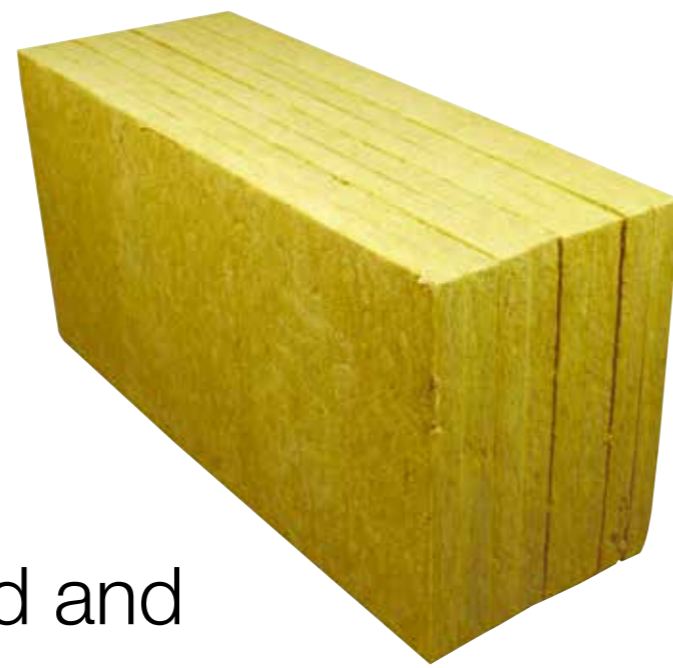
Squareness tolerance

(diagonal per meter)

Features

- Thermal insulation coefficient is compliant with the offered values.
- Mechanical durability is ideal. (22-32 kg/m³)
- With its high vapor di usion resistance it does not require extra vapor barrier. MÜ= M
- E-B1 fire classs
- Produced to fit the density requirements of where it will be used (roof, Wall, flooring).
- Edges are tongued and grooved.
- Compliance with the building physics is stable.
- The insulating abilities of 3 cm WALLBOARD equal to: 5 cm glass wool, 31 cm autoclaved concrete block, 63 cm aerated brick and 264 cm concrete.





ROCK WOOL

Thermal, Sound and Fire Insulation

It is used for the purpose of heat, sound and water insulation in the roof terrace. It is an uncoated mineral plate. It is produced by melting and fibering of basalt –totally native raw material under high temperatures. It can also be manufactured in the form of mattresses, bulk, sheet and pipe by using a coating material. Insulawool is the insulation material within the mineral wools and has high sound insulation properties besides its thermal insulation. Insulawool products can be used between -50 / +750C range. It is an A class inflammable material pursuant to TS EN 13501. It has dimensional stability and it does not change its measures under the effect of temperature and humidity. Mattress and sheet type products are produced in compatibility with TS 901-1 EN 13162 standard.

Density (kg/m3)	150
Thickness (cm)	3 - 4 - 5
Dimension (cm) - (uncovered)	60x120
Dimension (cm) - (bituminous)	120x60
Compressive strength* (kg/m2)	3000

Water Repellent Feature:

During production water repellency has been brought with silicone addition to terrace plates.

APPLICATION AREAS:

- Concrete or trapezoidal metal, flat or any kind of sloping roofs.
- Walking or not walking flat roofs

Usage Areas:

- Thermal insulation
- Sound insulation
- Fire protection

Features

- Surface Coatings: It can be also produced with the following surfaces.
 - Aluminum folio
 - Fiberglass
- One side aluminum folio, other side with fiberglass or both side fiberglass
- Fire resistance: It is an A class inflammable material pursuant to TS EN 13501 because Insulawool's raw material is inorganic basalt rock. Melting point is 1000 C.
- Thermal conductivity: Thermal conductivity value of the products used in buildings should be according to TS 825 h=0,040 W/mK.
- It is produced in 2 different kinds; plain and one side fiberglass reinforced bituminous covered.

PI PLAK

PI PLAK (PVC PANELS)

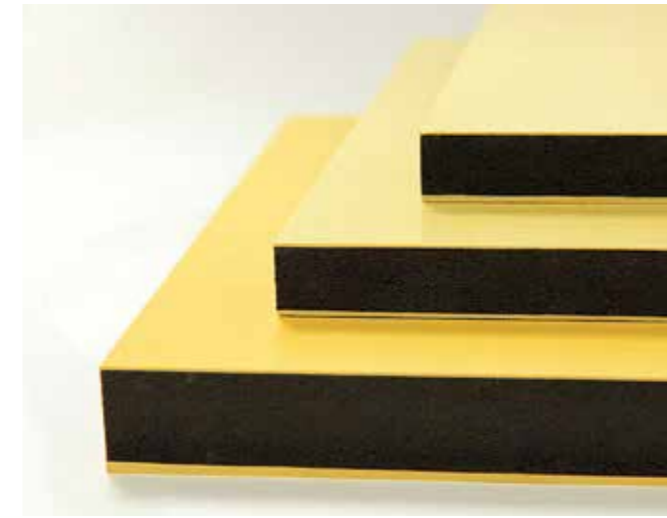
■ CONCRETE FORM USAGE

PI PLAK is an ideal product especially in concrete forms to get exposed concrete where more times of usage is demanded.

Environment friendliness and high resistance to corrosion due to its durability against chemical reactions make it a suitable and profitable choice in formwork. In comparison to plywood, it has lower durability but using shorter purlin spacing, PI PLAK gives smoother concrete in the end with no need for mortaring.

■ PANEL SIZES

- Standard dimensions 2500x1250 mm
- Width
4mm >
4mm < <10mm 10mm < <24mm
200cm 140cm 125cm
- Length upon demand
- Thickness 3 mm- 24 mm + / - %2
- Length/width tolerance is + / - 1 mm per meter
- Diagonal Rectangular Tolerance
+ / - 1 mm per meter



■ ADVANTAGES OF USE

- Gives exposed concrete. No need for mortaring. Helps applications of direct plastering or painting.
- Custom length available on demand.
- Resistant to drilling and cutting.
- Saves you the cost of epoxy coating needed to make plywood watertight.
- Long lasting unlike plywood.
- UV resistant.





BEST CHOICE IN MEGA CONSTRUCTION SITES

TECHNICAL VALUE TABLE

- Standard dimensions 2500x1250 mm
- Width
 - 4mm > 200cm
 - 4mm < <10mm 140cm
 - 10mm < <24mm 125cm
- Length upon demand
- Thickness 3 mm- 24 mm +/- %2
- Length/width tolerance is +/- 1 mm per meter
- Diagonal Rectangular Tolerance +/- 1 mm per meter



TECHNICAL VALUES

DENSITY:	550 KG/M3 ± %10
BENDING STRENGTH :	2800 N/mm2
ELASTICITY:	7000 N/mm2
TENSILE STRENGTH	1200 N/mm2
SOFTENING POINT	≥73 ° C

COMPARISON WITH PLYWOOD

Load Bearing Capacity /m2	PI PLAK (550 kg/m3)	Plywood
Thick-ness mm	Load KN/m2	Load KN/m2
21 mm	11.34	15.6
18mm	9.72	13.39



SMOOTH CONCRETE LOOK WITH PI PLAK

SMOOTH SURFACE PREPARED WITH PI PLAK

ADVANTAGES OF USE

- Gives exposed concrete. No need for mortaring. Helps applications of direct plastering or painting.
- Custom length available on demand.
- Resistant to drilling and cutting.
- Saves you the cost of epoxy coating needed to make plywood watertight.
- Long lasting unlike plywood.
- UV resistant.

LOAD BEARING CAPACITY TABLE

Purlin spacing mm	200		250		300		350	
Thickness mm	Load KN/m2	Deflec-tion mm	Load KN/m2	Deflec-tion mm	Load KN/m2	Deflec-tion mm	Load KN/m2	Deflec-tion mm
12	24	0.5	20	0.8	13	1.0	9	1.20
15	30	0.4	24	0.7	20	1.0	15	1.20
18	35	0.4	28	0.6	24	0.8	20	1.10
21	40	0.4	32	0.5	26	0.7	23	1.0

Dekota Foreks

These are panels made by homogenously milling PVC powder in a chemical called agent. The purpose is decreasing the density of the product thereby decreasing the amount of PVC in one reference unit to decrease the costs to utilize resources in a healthier method.

DEKOTA PVC Foam Boards

PVC foam boards are known in the market as Dekota or foreks. It is a light weight material so gives you ease in machining, transportation and storage. Much more economic than rigid PVC with the decreased density. At the same time, ahead of the Similar materials such as foam polystyrene and photoblock, etc. with its much smoother surface ,higher rigidity, higher durability and easier machining.

Dimension:

Width: Maks 140cm - Length: Custom size on demand



AREAS OF USE:

- Digital Serigraph printing
- Sales Booth
- Labeling
- Table Top
- Display and Exhibition Systems
- Partitions
- In store architecture
- Roof covering
- Interior cladding
- Health Industry
- Furniture Industry
- Doors and Other Construction Equipment

FEATURES

- Smooth surfaced
- Easily holds print
- Weather resistant
- Easy to transport
- Impact resistant
- Easy machining
- Resistance to chemicals
- Cheaper than majority of its substitutes
- Durable



10mm Sim Dekota Sim Foreks

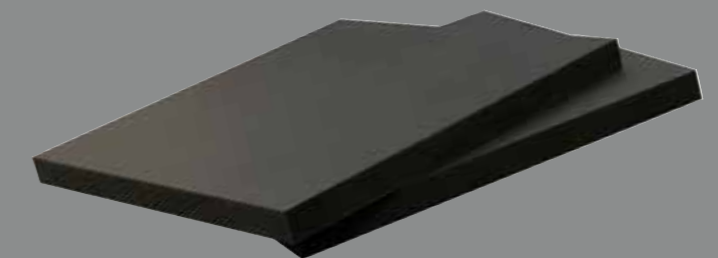
8mm Sim Dekota Sim Foreks

5mm Sim Dekota Sim Foreks

Special Foreks

SPECIAL FOREKS IS SUITABLE FOR STEEL FORMWORKS.

Forex can be used in steel formworks thanks to its flexibility, strength and 1000 kg/m3 density.



CERTIFICATES

