- Established around **1944**
- **Worldwide leader** in lightweight roofing
- **70 years** of industry experience
- Around **1600 employees** from **43** nations
- **€320 M turnover** in 2013
- **10 plants** in **8** countries, fully certified
- Present in over **120 countries** via **45 subsidiaries**
- Over **150 million m²** of roofing solutions sold every year

The Onduline® brand was launched in France back in the 40s with the introduction of our first bituminous-corrugated roofing solution and under-roofing system.

Over the next 50 years we expanded rapidly cross Europe and, more recently, throughout South America, East Asia and North America. Today, Onduline is present in more than 120 countries worldwide and offers high-performance and award-winning roofing solutions, including roofing and over-roofing systems, roof lights, under-roofing and wall-protection systems.

We do not see ourselves as a mere manufacturer; we see ourselves as a dedicated partner that combines first-rate services with long-term vision. Our core values include simplicity, reliability and a firm commitment to quality and innovation, backed by solid investment. And our first-rate logistics service offers easily accessible stock with quick delivery times.

Whatever your project, whatever your need, you can rely on our 70 years of industrial experience and know-how to deliver the right solution!

www.onduline.com

Onduline - 35 Rue Baudin
92300 Levallois-Perret Cedex, FRANCE

Onduline®

ONDUTISS®

Underroofing protection membranes and foils

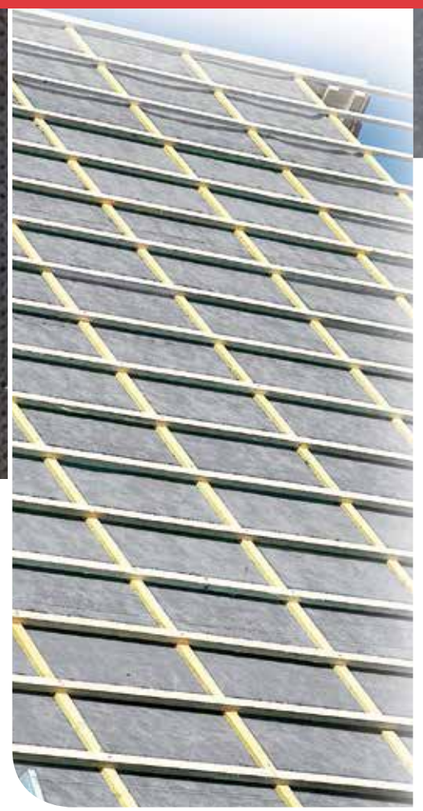
Protection of insulation

Enhanced comfort

www.onduline.com

Onduline®

CONTENT SUMMARY



ONE DEDICATED PARTNER FOR ALL YOUR NEEDS

SAVE TIME AND MONEY

Backed by 70 years of experience and operations in 100 countries, Onduline delivers reliable, high-quality products that are easy to install. Whatever your project, you will benefit from our wide selection of under-roofing membranes and foils, as well as our local logistic centres and sales force to help you find the perfect solution for your needs – on time and on budget.

SIMPLIFY YOUR WORK ON JOBSITES

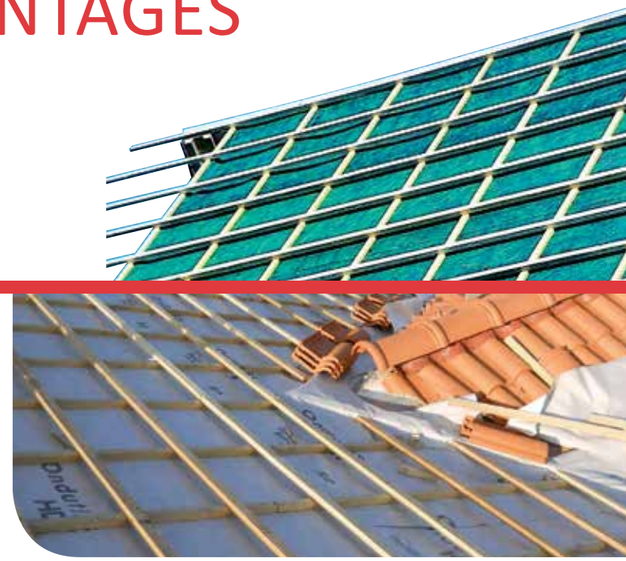
We are fully dedicated to make your installation efficient, safe and simple:

- our lightweight rolls are easy to transport and handle during installation,
- the variable product lenght ensures a seamless fit with any roofing or wall structure,
- high mechanical resistance means no tearing during installation,
- the overlap indicators printed on the underlays help you work quicker and more easily.

PLAY A RESPONSIBLE ROLE

In addition to the desire to take positive environmental actions, being able to create sustainable buildings is an increasingly crucial requirement. ONDUTISS® membranes and foils allow you to design energy-efficient buildings that are more comfortable and more durable, with a minimal impact on our planet.

OFFER YOUR CUSTOMERS BIGGER ADVANTAGES



A COSTLY RUN

Imagine a morning jog during winter, wearing a light jacket. Within minutes, you sweat and your clothes become damp. Naturally, your body gets colder. The same happens to a building: when the heat is on, energy escapes and condensation accumulates. The insulation becomes wet and, if not treated properly, the ceiling, painting, wallpaper, parquet and all your structure get damaged.

However, just like a jogger has an opportunity to wear thermal lining that is affordable yet effective, a building too can benefit from relatively inexpensive but valuable vapour barrier foils and vapour permeable membranes, protecting the insulation and extending its lifespan.

WHY IS INSULATION SO IMPORTANT?

Most of the building's heat escapes from the parts exposed to harsh weather conditions, like wind, temperature and rain. About 23% of heat escapes through the roof and external walls. As a result, using thermal-insulating materials is crucial!

DISCOVER THE PERFECT SOLUTION WITH ONDUTISS®

With ONDUTISS® roofing underlays, the advantages are considerable:

- Decrease of heat losses
- Improved energy savings
- Control over condensation
- Protection of insulation layer
- More effective ventilation system
- Enhanced thermal stability
- Improved lifespan of the building

SELECTIONGUIDE

Each new construction or renovation starts with a planning. The choice of high quality materials is essential to realize a long lasting insulated building. Within the ONDUTISS® range, we have the solution adapted to every type of roofing structure.

Which ONDUTISS® solution is the best for your project?

APPLICATION	FOR EXTERNAL INSTALLATION		FOR INTERNAL INSTALLATION	
	Standard	Economic	Standard	Economic
Insulated roof with a ventilation gap	AIR 95 AIR 110	COLD 90 COLD 110 CROSS 80	BARRIER 110 BARRIER REFLEX 130	BARRIER 90 BARRIER REFLEX 90
Insulated roof without ventilation gap	AIR 135 AIR 150	AIR 95 AIR 110		
Full deck roofs with shingles	STRONG	STRONG	BARRIER 110 BARRIER REFLEX 110	BARRIER 90 BARRIER REFLEX 90
Cold roof	COLD 90 COLD 110	CROSS 80	-	-
Framed wall with/without external insulation Ventilated facade	WIND 100 AIR 95		BARRIER 110 BARRIER REFLEX 110	BARRIER 90 BARRIER REFLEX 90
Floor & foundations	-	-	BUILD	-

ONDUTISS® AIR

HIGH VAPOUR-PERMEABLE MEMBRANES

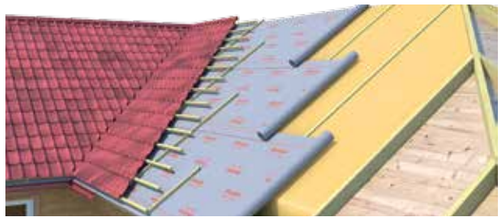
A range of multi-layer vapour permeable and water-proof membranes, ONDUTISS® AIR provides outstanding protection of the insulation layer against moisture, wind and condensation.

THE BENEFITS IT BRINGS...

- **High vapour permeability:** the membrane absorbs the vapour and leads it outside keeping the insulation layer dry.
- **No ventilation gap needed.**
- **Totally waterproof:** protect thermal insulation against rain or snow from outside.
- Overlap indicators printed on the membrane for **fast and easy installation.**

WHAT IT IS IDEAL FOR...

- Designed for warm roofs to protect the insulation layer
- Creates a perfect wind barrier for framed walls
- With the Sd value of 0.02m, **ONDUTISS® AIR** can be applied directly onto the insulation layer without a ventilation gap.

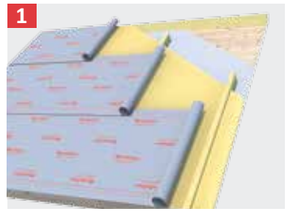


TECHNICAL DATA

PARAMETER	UNIT	AIR 95	AIR 110	AIR 135	AIR 150
Width	m	1.5	1.5	1.5	1.5
Length	m	20 & 50	20 & 50	20 & 50	50
Surface weight	g/m²	95	110	135	150
Longitudinal tearing strength	N/5 cm	170	200	230	260
Transverse tearing strength	N/5 cm	80	100	120	130
Sd value	m	0.02	0.02	0.02	0.02
Fire class	-	E	E	E	E
Range of working temperatures	°C	-25 to 80	-25 to 80	-25 to 80	-25 to 80
UV resistance	month	1	1	1	1

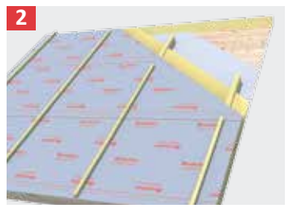
INSTALLATION STEPS

INSTALLATION ON THE ROOF

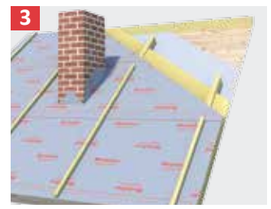


1 Roll out ONDUTISS® AIR in parallel with the gutter, starting from the bottom, always the printed side facing up. The membrane can be laid directly on the thermal insulation with slight tension. The overlap is indicated by lines or logo print. For the highest water tightness seal ONDUTISS® AIR bands with ONDUTISS® sealing tape.

1 Insulation
2 ONDUTISS® AIR
3 Vapour barrier
4 Ventilation gap
5 Roofing
6 Counter batten
7 Rafter



2 Fix the bands directly to the rafters with a stapler. Nail counter batten on top of the membrane through to the rafters to protect the fixing area.



3 In case of any protruding element, cut ONDUTISS® AIR across the width and turn up on the protruding elements (chimneys, ventilations, windows etc.). Fix ONDUTISS® AIR with ONDUTISS® sealing tape.

NB! Please, check the detailed fixing guide.

INSTALLATION ON THE WALLS IN FRAMED STRUCTURES

1 Roll out ONDUTISS® AIR parallel to the floor, starting from the bottom so that natural release of condensation would be possible. The printed side should always be face up. ONDUTISS® AIR can be laid directly on the thermal insulation. The overlap is indicated by lines or logo print. Fix the bands directly to the frame with a stapler. All the joints should be sealed with ONDUTISS® sealing tape.

2 Fix ONDUTISS® AIR bands with battens/ framing structure. Install external cladding elements (siding, facade panels, steel plates etc.). Ventilation gap between ONDUTISS® AIR and the external cladding should be at least 3 cm.

ONDUTISS® STRONG

BITUMEN MEMBRANE

A polymer bitumen membrane designed to protect roofs and attics, ONDUTISS® STRONG combines high-temperature sealing performance with flexibility at low temperatures, offering excellent stress and mechanical resistance.

THE BENEFITS IT BRINGS...

- **Reliable protection** against moisture and wind.
- **Fungi and mould prevention.**
- **High performance** in severe-climate conditions.
- **Significantly extended lifespan** of the roofing system.
- **Mechanical resistance.**
- **User-friendly installation.**

WHAT IT IS **IDEAL FOR...**

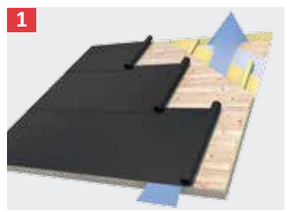
- Particularly suited for full boarding roofs under shingles and heavily insulated roofs
- Can be applied on cold roofs to protect attic space against moisture and wind.

TECHNICAL DATA

PARAMETER	UNIT	STRONG
Width	m	1
Length	m	30 & 50
Surface weight	g/m²	450
Longitudinal tearing strength	N/5 cm	400
Transverse tearing strength	N/5 cm	280
Range of working temperatures	°C	-45 to 80
UV resistance	class	W1

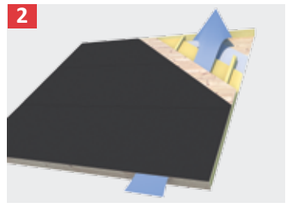
INSTALLATION STEPS

1



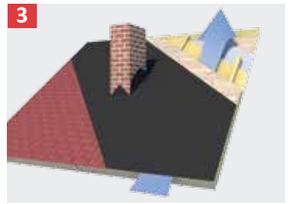
Roll out ONDUTISS® STRONG vapour proof membrane starting from the bottom. The overlap should be at least 10 cm.

2



Fix the bands with a stapler. Avoid any damage of the membrane. Use ONDUTISS® double sided tape to seal hermetically all joints and all connections appropriately.

3



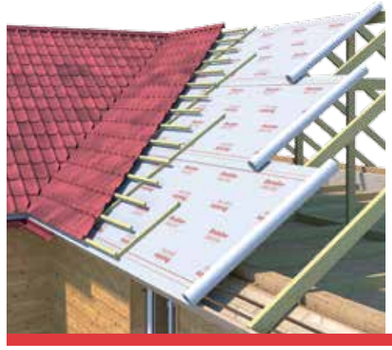
In case of any protruding element, cut ONDUTISS® STRONG across the width and turn up on the protruding elements (chimneys, ventilations, windows etc.). Fix ONDUTISS® STRONG with ONDUTISS® sealing tape.

NB! Please, check the detailed fixing guide.

ONDUTISS® CROSS 80

VAPOUR-PROOF FOIL

A two-layer PP and PE foil, ONDUTISS® CROSS is designed to protect roofing structures against exterior moisture and wind.



THE BENEFITS IT BRINGS...

- **Prevention of fungi** and mould development.
- **Reliable wind** and vapour protection.
- Fast, **user-friendly installation.**
- **Mechanical resistance.**

WHAT IT IS **IDEAL FOR...**

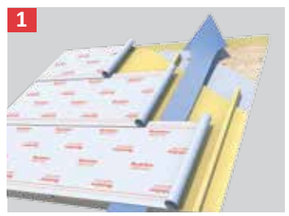
- Excellent protection for non-converted attic space
- Can be applied on insulated roof with at least 2 cm ventilation gap between the foil and the insulation layer.

TECHNICAL DATA

PARAMETER	UNIT	CROSS 80
Width	m	1.5
Length	m	50
Surface weight	g/m²	80
Longitudinal tearing strength	N/5 cm	750
Transverse tearing strength	N/5 cm	750
Fire class	-	E
Range of working temperatures	°C	-25 to 80
UV resistance	month	1

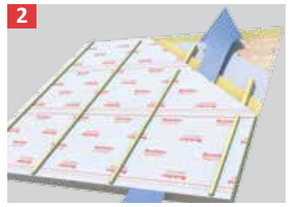
INSTALLATION STEPS

1



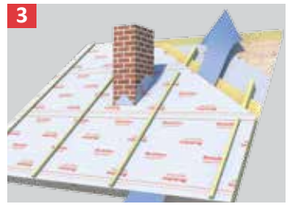
Roll out ONDUTISS® CROSS 80 vapour proof membrane across the rafters starting from the bottom. Ventilation gap between the ONDUTISS® CROSS and insulation should be at least 2 cm. The overlap should be at least 10 cm.

2



Fix the bands directly to the rafters with a stapler. Avoid any damage of the membrane. Use ONDUTISS® double sided tape to seal hermetically all joints and all connections appropriately. Nail battens on top of the membrane through to the rafters to protect the fixing area.

3



In case of any protruding element, cut ONDUTISS® CROSS 80 across the width and turn up on the protruding elements (chimneys, ventilations, windows etc.). Fix ONDUTISS® CROSS 80 with ONDUTISS® sealing tape.

NB! Please, check the detailed fixing guide.

ONDUTISS® COLD

VAPOUR-PERMEABLE MEMBRANE

Range of micro-perforated PE foils is designed to protect roofing structures against exterior moisture and wind.

THE BENEFITS IT BRINGS...

- **Keeping insulation dry,** while leading the vapour outside thanks to micro-perforation.
- **Fungi and mould prevention**.
- **Reliable wind** and vapour protection**.**
- Fast, **user-friendly installation.**
- **Durability.**

WHAT IT IS IDEAL FOR...

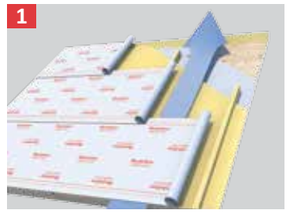
- Designed for protecting cold roofs
- Can also be applied on insulated roof with min 2 cm ventilation gap between the foil and the insulation layer.

TECHNICAL DATA

PARAMETER	UNIT	COLD 90	COLD 110
Width	m	1.5	1.5
Length	m	20 & 50	20 & 50
Surface weight	g/m²	90	110
Longitudinal tearing strength	N/5 cm	250	250
Transverse tearing strength	N/5 cm	150	250
Sd value	m	>1	>1
Fire class	-	E	E
Range of working temperatures	°C	-35 to 80	-35 to 80
UV resistance	month	1	1

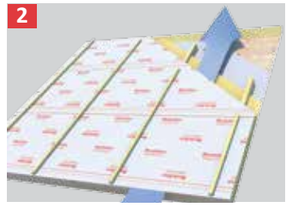
INSTALLATION STEPS

1



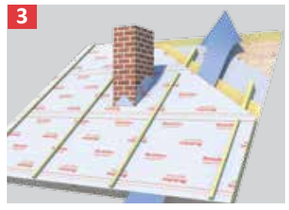
Roll out ONDUTISS® COLD across the rafters starting from the bottom. Ventilation gap between the ONDUTISS® COLD and insulation should be at least 2 cm. The overlap should be at least 10 cm.

2



Fix the bands directly to the rafters with a stapler. Avoid any damage of the membrane. Use ONDUTISS® double sided tape to seal hermetically all joints and all connections appropriately. Nail battens on top of the membrane through to the rafters to protect the fixing area.

3



In case of any protruding element, cut ONDUTISS® COLD across the width and turn up on the protruding elements (chimneys, ventilations, windows etc.). Fix ONDUTISS® COLD with ONDUTISS® sealing tape.

NB! Please, check the detailed fixing guide.

ONDUTISS® WIND 100

WALL PROTECTION

Made of a double layer of PP, ONDUTISS® WIND 100 is wind-barrier vapour-permeable membrane that offers ideal protection against precipitation and uncontrolled air flows.

THE BENEFITS IT BRINGS...

- **Long-lasting protection** of the thermal insulation.
- **Significantly decreased heat loss.**
- **Perfect ventilation** and protection against dampening.
- **Fungi and mould prevention.**
- **UV stabilisation,** making it well suited for direct exposure to sun rays.
- **User-friendly installation.**

WHAT IT IS IDEAL FOR...

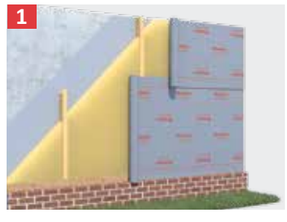
- External framed walls or steel structure buildings
- Can also be applied under siding in ventilated facade systems.

TECHNICAL DATA

PARAMETER	UNIT	WIND 100
Width	m	1.5
Length	m	20 & 50
Surface weight	g/m²	100
Longitudinal tearing strength	N/5 cm	180
Transverse tearing strength	N/5 cm	90
Fire class	-	F
Range of working temperatures	°C	-25 to 80
UV resistance	month	1

INSTALLATION STEPS

1



Roll out ONDUTISS® Wind 100 parallel to the floor, starting from the bottom so that natural release of condensation would be possible. The printed side should always be face up. ONDUTISS® Wind 100 can be laid directly on the thermal insulation. The overlap is indicated by lines or logo print. Fix the bands directly to the frame with a stapler. All the joints should be sealed with ONDUTISS® sealing tape.

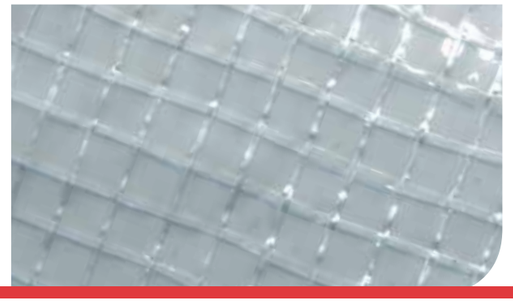
2

Fix ONDUTISS® Wind 100 bands with counter battens/ framing structure. Install external cladding elements (siding, facade panels, steel plates etc.). Ventilation gap between ONDUTISS® Wind 100 and the external cladding should be at least 3 cm.

ONDUTISS® BARRIER

VAPOUR-PROOF FOILS

This range of vapour-proof foils, made of reinforced PE, provides reliable, long-lasting protection against vapour coming from inside the building in frame structures of roofs, ceilings and walls.

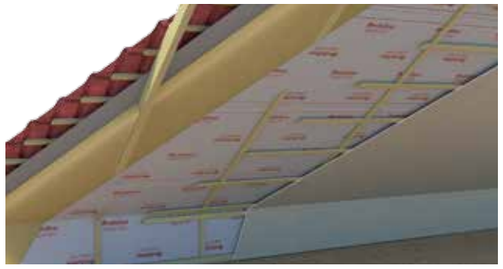


THE BENEFITS IT BRINGS...

- **Fungi and mould prevention.**
- **Mechanical resistance** and light weight thanks to multilayer design.
- **Fast and easy installation.**
- **More thermal comfort** and energy savings.

WHAT IT IS IDEAL FOR...

- Insulated attics and ceilings
- Excellent vapour-proof protection for insulation layer in 'warm' roofs
- Can be used for all types of framed walls.

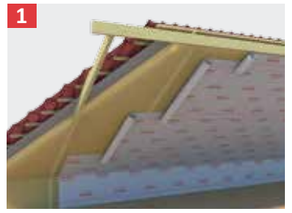


TECHNICAL DATA

PARAMETER	UNIT	BARRIER 90	BARRIER 110
Width	m	1.5	1.5
Length	m	20 & 50	20 & 50
Surface weight	g/m²	90	110
Longitudinal tearing strength	N/5 cm	250	250
Transverse tearing strength	N/5 cm	150	250
Sd value	m	>18	>18
Fire class	-	E	E
Range of working temperatures	°C	-25 to 80	-25 to 80
UV resistance	month	1	1

INSTALLATION STEPS

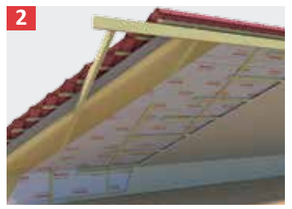
INSTALLATION ON THE ROOF



1

Roll out ONDUTISS® BARRIER vapour proof membrane across the rafters, at the warm side of construction. Start from the bottom, always the printed side facing you. The overlap is indicated by lines or logo print.

1 Insulation
2 Vapour permeable membrane
3 ONDUTISS® BARRIER
4 Ventilation gap
5 Roofing
6 Counter batten
7 Rafter



2

Fix ONDUTISS® BARRIER vapour proof membrane to the roof with staples. Avoid any damage of the foil. Use ONDUTISS® both double sided tape to seal hermetically all joints and all connections. According to your roofing system, fix ONDUTISS® BARRIER bands in place by applying the supporting structure of the interior paneling, or by nailing counter battens from above to the rafters to protect the fixing area.

NB! The number of penetration through ONDUTISS® BARRIER vapour proof membrane should be as low as possible. It may make sense to leave a space between vapour BARRIER and interior paneling for cables, pipes, lights switches.

INSTALLATION ON THE WALLS IN FRAMED STRUCTURES

1

Roll out ONDUTISS® BARRIER vapour proof membrane in parallel to the floor always the printed side facing you. The overlap is indicated by lines or logo print. Fix ONDUTISS® BARRIER bands directly to the frame with a stapler. Use ONDUTISS® sealing tape to seal all joints and connections.

2

Fix ONDUTISS® BARRIER bands in place by applying the supporting structure of the interior paneling. Ventilation gap between the membrane and the interior paneling should be at least 3 cm.

ONDUTISS® BARRIER REFLEX

VAPOUR-PROOF FOILS

A range of reflective vapour-proof foils made of reinforced PE with aluminium coating, ONDUTISS® BARRIER REFLEX is designed to protect the insulation layer from interior vapour while preventing heat loss.

THE BENEFITS IT BRINGS...

- **Prevention of heat loss thanks** to thermal-radiation reflection.
- **Improved energy savings.**
- **Ambient conditions** in attic living spaces.
- **Additional wind** and vapour protection.
- Fast, **user-friendly installation.**
- **Mechanical resistance.**

WHAT IT IS IDEAL FOR...

- Insulated attics converted into leaving space

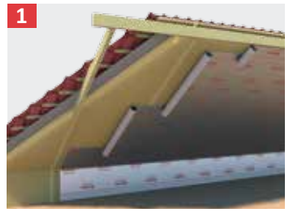
TECHNICAL DATA

PARAMETER	UNIT	BARRIER REFLEX 90	BARRIER REFLEX 130
Width	m	1.5	1.5
Length	m	20 & 50	50
Surface weight	g/m²	90	130
Longitudinal tearing strength	N/5 cm	260	320
Transverse tearing strength	N/5 cm	200	250
Sd value	m	>304	>304
Fire class	-	E	E
Range of working temperatures	°C	-25 to 80	-25 to 80
UV resistance	month	1	1

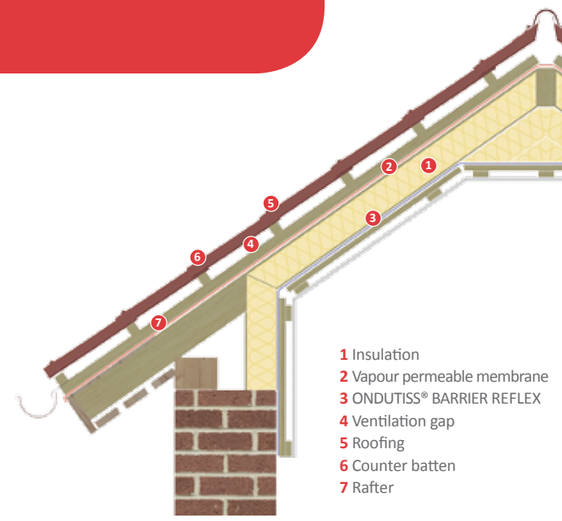
INSTALLATION STEPS

INSTALLATION ON THE ROOF

1

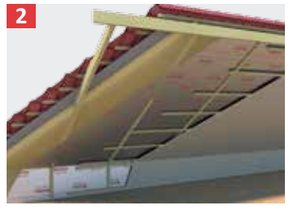


Roll out ONDUTISS® BARRIER REFLEX vapour proof membrane across the rafters, at the warm side of construction. Start from the bottom, always the printed side facing you. The overlap is indicated by lines or logo print.



1 Insulation
2 Vapour permeable membrane
3 ONDUTISS® BARRIER REFLEX
4 Ventilation gap
5 Roofing
6 Counter batten
7 Rafter

2



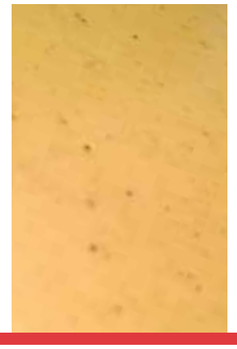
Fix ONDUTISS® BARRIER REFLEX vapour proof membrane to the roof with staples. Avoid any damage of the foil. Use ONDUTISS® double sided tape to seal hermetically all joints and all connections appropriately. According to your roofing system, fix ONDUTISS® BARRIER REFLEX bands in place by applying the supporting structure of the interior paneling, or by nailing counter battens above the membrane through to the rafters to protect the fixing area.

NB! The number of penetrations through ONDUTISS® BARRIER REFLEX membrane should be as minimal as possible. It may make sense to leave a space between vapour proof membrane and interior paneling for cables, pipes, lights switches.

ONDUTISS® BUILD

VAPOUR-PROOF FOIL

A single-layer PE vapour-barrier foil for construction, ONDUTISS® BUILD is designed for various types of applications.



THE BENEFITS IT BRINGS...

- **Reliable vapour proofing.**
- **Dampening prevention** of the foundation.
- Flexible, **user-friendly installation.**
- **Protection** against weather conditions and contamination.

WHAT IT IS IDEAL FOR...

- Moisture-proof layer for foundations
- Vapour barrier in flat and pitched roofs
- Temporary portable cover, securing work places, construction materials and more.

TECHNICAL DATA

PARAMETER	UNIT	BUILD
Width	m	1.5
Length	m	20 & 50
Surface weight	g/m²	185
Longitudinal tearing strength	N/5 cm	70
Transverse tearing strength	N/5 cm	60
Fire class	-	E
Range of working temperatures	°C	-25 to 80
UV resistance	month	1

INSTALLATION STEPS

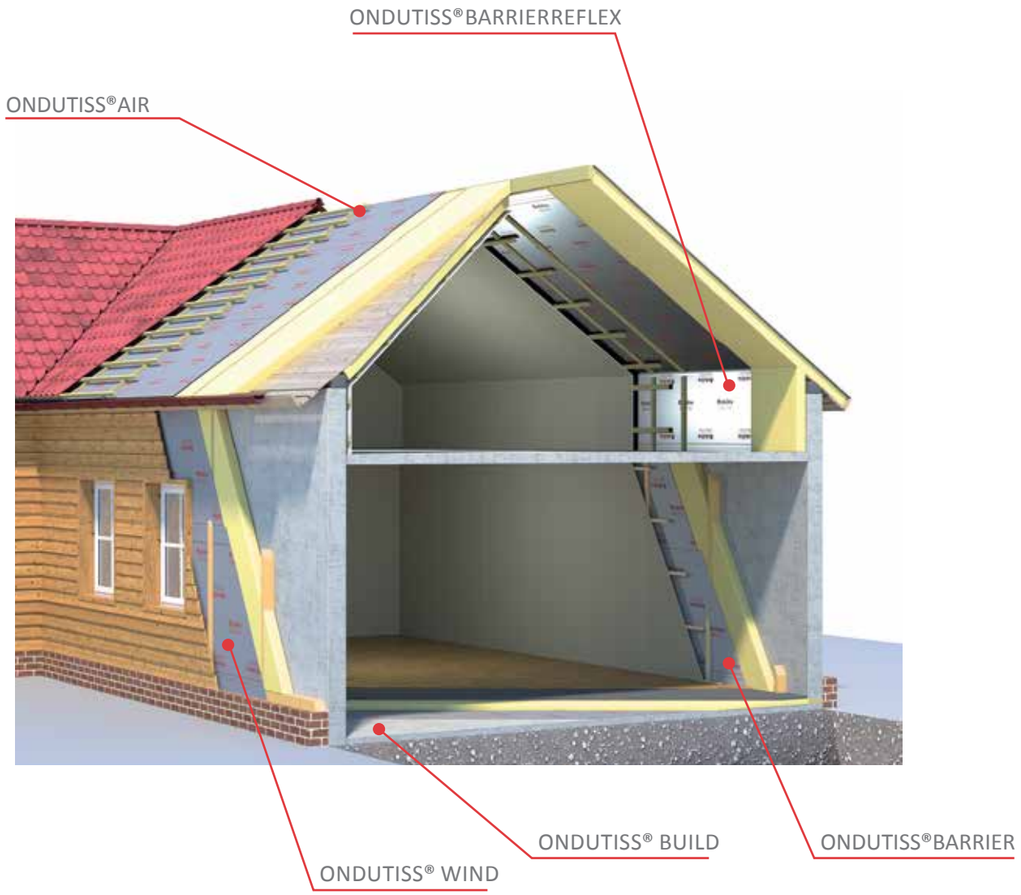
INSTALLATION ON THE FLAT ROOF

1. Roll out ONDUTISS® BUILD on the construction (concrete foundation or metal composite of the flat roof). Fixing of the foil is not required as the weight of top layers ensures it remains securely in place. We recommend the membrane to have an overlap of 10 cm. This should be taped using with butyl tape ensuring this area is well supported.

2. Make sure all the details and intersections (sanitary ventilations) are well taped, ensuring there is always support underneath the taped area. Failing to complete this means the construction may suffer from escaping vapour that affects the function, quality and durability of the construction.

ONDUTISS® SYSTEM

THE BEST WE RECOMMEND YOU!



ACCESSORIES

ONDUTISS® UNO

1 side adhesive tape with PP coating.
25 m x 50 mm

ONDUTISS® DUO

2 sides adhesive tape made of butyl.
30 m x 9 mm, thickness 1.5 mm