Patio & Extension

Garden shed & green house
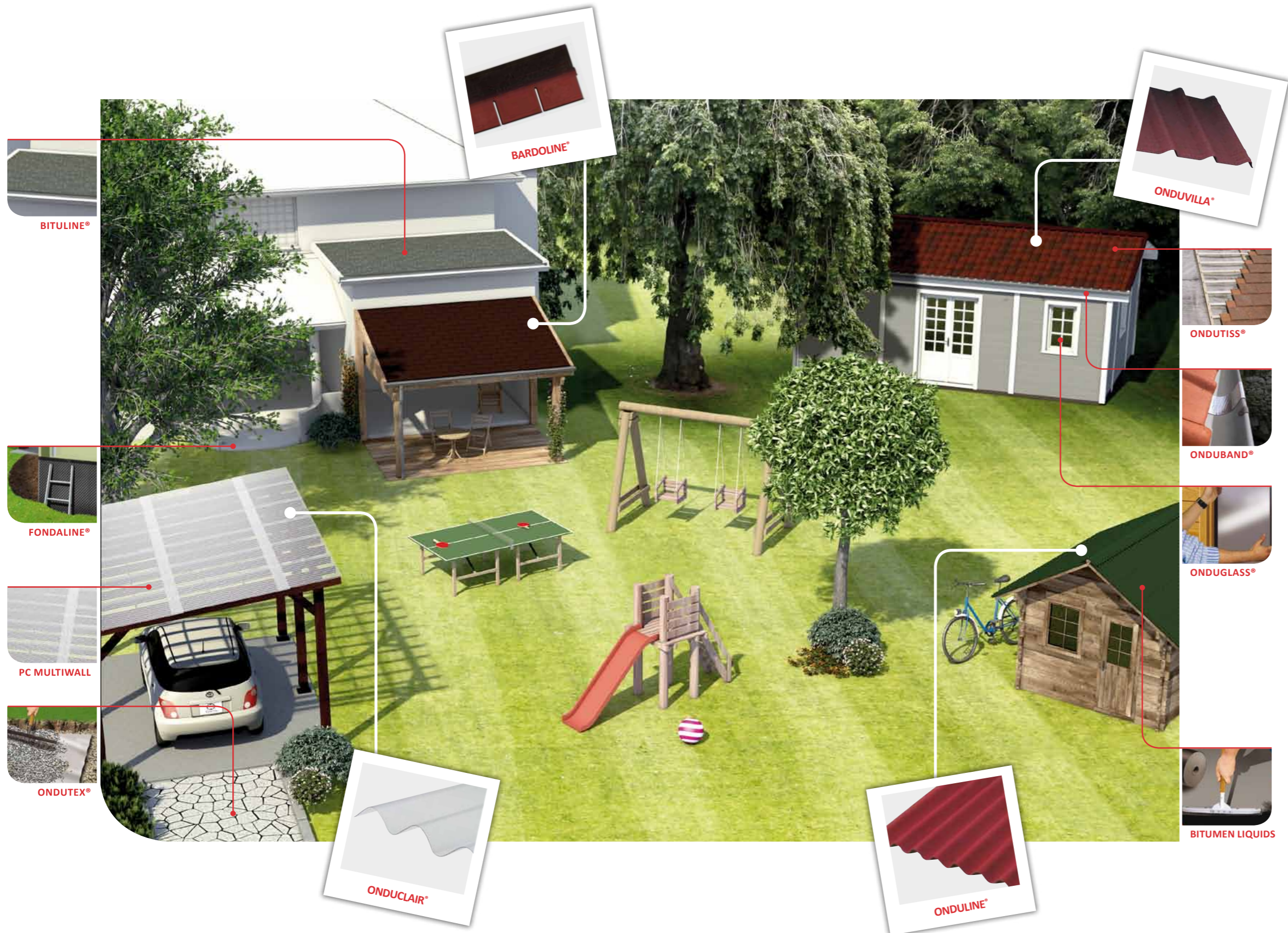
Sealing

DIY SOLUTIONS 2014
for your house and gardening

Onduline®

www.onduline.com

DIY SOLUTIONS 2014
FOR YOUR HOUSE AND GARDENING

BITULINE®

BARDOLINE®

ONDUVILLA®

FONDALINE®

ONDUTISS®

ONDUBAND®

ONDUGLASS®

PC MULTIWALL

ONDUTEX®

ONDUCLAIR®

ONDULINE®

BITUMEN LIQUIDS

Summary

Onduline® DIY solutions
for your house and gardening

LEISURE HOUSING

Made by John with ONDUVILLA®

"ONDUVILLA® offered a complete system including matching accessories and all the tools I needed. I'm thrilled with the result. Now when guests come over, I'm happy to show off my new roof. And I'm happy to say I did it myself!"
John. 39. Builder.

PATIO & EXTENSION

"Finally, a practical roofing solution that's reliable and very easy to figure out. BARDOLINE® was a breeze to install. If I can do it, anyone can!"
Julia. 29. Florist.

Made by Julia with BARDOLINE®

CARPORT

Made by Leonard with ONDUCLAIR®

"We wanted to improve the insulation and lighting sections of our carport. A neighbour suggested ONDUCLAIR® sheets. Not only they were a great choice and surprisingly simple to install, but they were available in various materials."
Leonard. 37. Marketing Manager.

The importance of DIY
by Jean-Noel Fourel, CEO

We have many key points in common, most notably a strong desire to ensure end-customer satisfaction and a strategy that places them at the center of our actions, which include offering them high quality solutions and services as well as the most adapted communications and tools.

Do-it-Yourself is a very important market for Onduline. So important, in fact, that we've decided to invest in a completely new marketing and sales approach that leverages retail business environments. We've also implemented **dedicated teams** to deliver the highest level of support to our retail partners, and we're convinced that this collaboration will be our ultimate success story.

Our long-term goal is to establish and foster dynamic, lucrative and, most of all, durable **long-term partnerships** with all of our retailer partners.

When it comes to quality, we look far beyond the products themselves. Our drive for **innovation** brings a positive impact on the most critical levels of service. And that includes a **robust logistics service** to always get the right products to the right place at the right time.

This year, we are embarking on this completely new marketing and sales approach, unique for the Do-it-Yourself market, with the 'Made by Me' slogan, which will allow all of us to **grow our business together.**

We are investing to help you sell more. So let's work together and make the most of this growth opportunity!
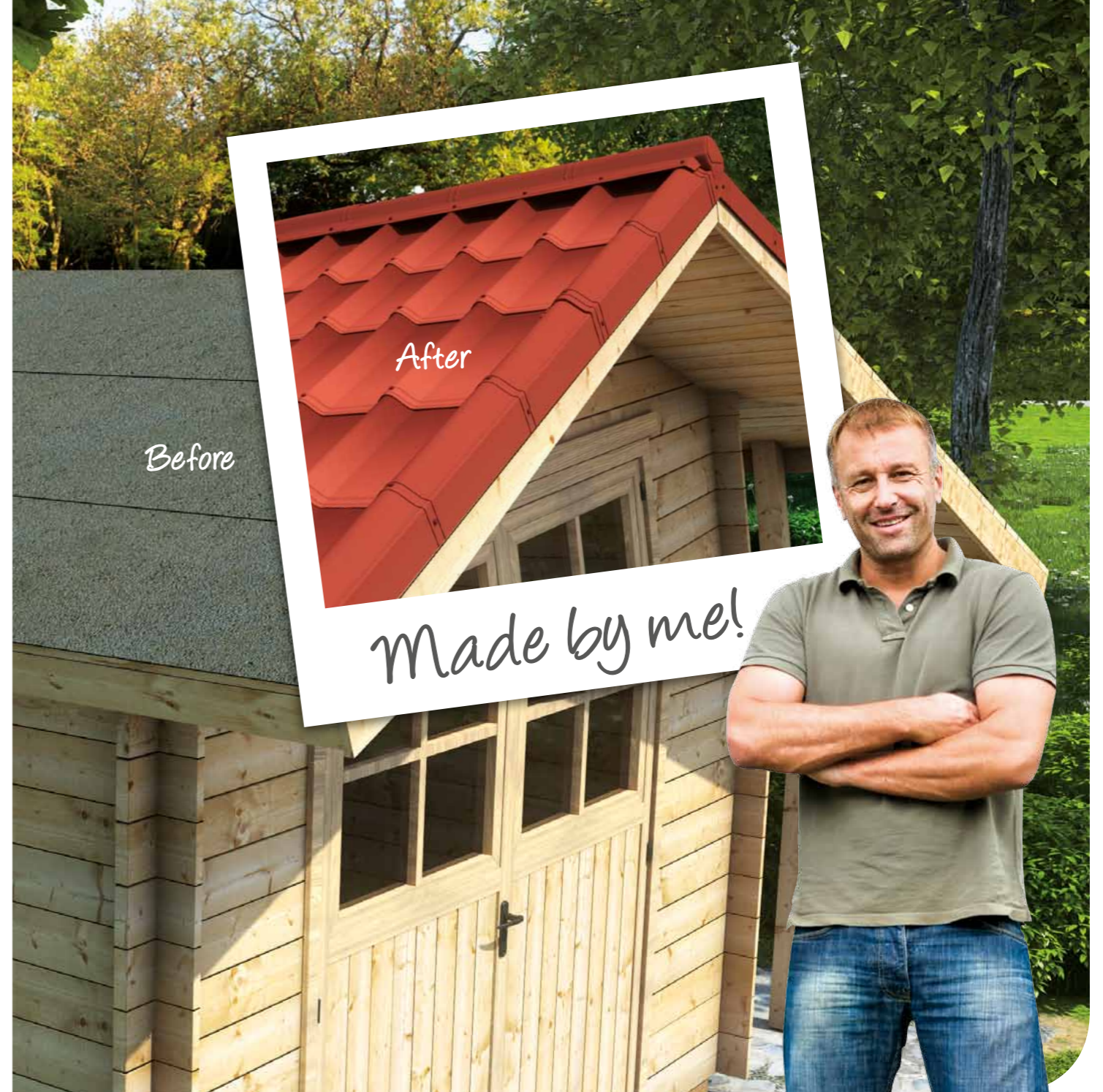
Sincerely,

Jean-Noël Fourel

1.0 | ROOFING

Whether you use it as guest quarters, a play room or a workshop, you deserve an annex you can be proud of. Liven it up with a truly unique roofing solution that's aesthetic, long-lasting and waterproof guaranteed.

Made by Sarah with BARDOLINE®

Made by Liv and David with ONDULINE®

Before

After

Made by me!

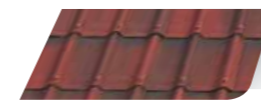**ONDUVILLA® offered a complete system including matching accessories and all the tools I needed. I'm thrilled with the result. Now when guests come over, I'm happy to show off my new roof. And I'm happy to say I did it myself!**
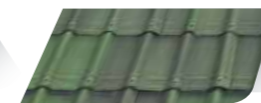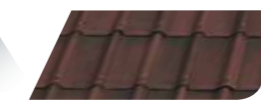
John. 39. Builder. |
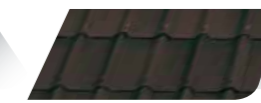
COLOR RANGE

PIGMENTED COLORS

SHADED RED
Gencode: 3467670014411

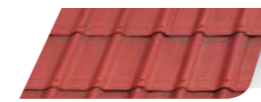**SHADED GREEN**
Gencode: 3467670014442

SHADED BROWN
Gencode: 3467670014428

BLACK
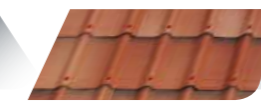Gencode: 3467670014435

PAINTED COLORS

CLASSIC RED 3D
Gencode: 3467670014534

FOREST GREEN 3D
Gencode: 3467670014558

FIORENTINO 3D
Gencode: 3467670016538

TERRACOTTA 3D
Gencode: 3467670014541

ACCESSORIES

| Packaging	Verge piece 90 x 50 cm	Slim cap 106 x 19,4 cm	Closure cap 106 x 19,4 cm	Circular nails 60 mm	Universal screws 60 mm	Foam fillers
	Package of 20 verge pieces	Package of 20 slim caps	Package of 20 closure caps	Blister of 50 nails	Bag of 100 screws	Package of 2 pairs
Black	3467670014855	3467670014640	3467670014718	5412520701919	3467670015715	3467670016798
Shaded Red	3467670014831	3467670014626	3467670014695	5412520701810	3467670015722	
Forest Green 3D	3467670014893	3467670014688	3467670014756	5412520702053	-	
Classic Red 3D	3467670014879	3467670014664	3467670014732	5412520702046	-	
Fiorentino 3D	3467670016590	3467670016569	3467670016576	5412520702015	3467670015753	
Shaded Brown	3467670014848	3467670014633	3467670014701	5412520702039	3467670015739	
Shaded Green	3467670014862	3467670014657	3467670014725	5412520702022	3467670015746	
Terracotta	3467670014886	3467670014671	3467670014749	5412520702015	3467670015753	

INSTALLATION INSTRUCTIONS

Only for 3D colors finished
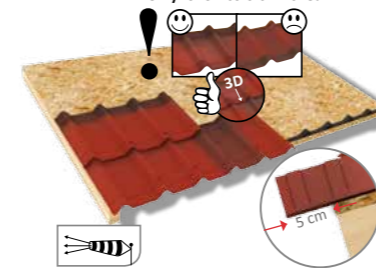
1. Start the installation in a direction opposite to the prevailing winds. Start the fixing from the eave. The overhang has to be max 5 cm. To prevent the penetration of wind driven rain, snow and birds fix ONDUVILLA® foam fillers.
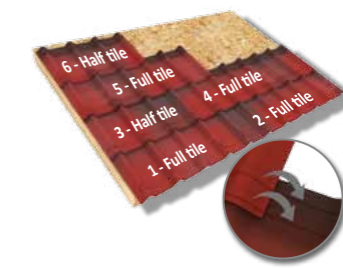
2. Stagger the rows, by starting the second row with a half tile. Ensure proper waterproofing by aligning the overlapping guides.

6 - Half tile
5 - Full tile
4 - Full tile
3 - Half tile
2 - Full tile
1 - Full tile
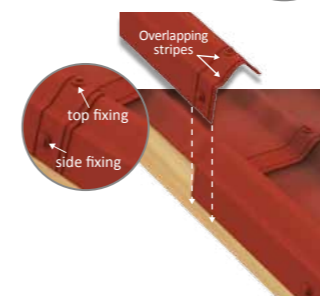
3. The aesthetics and wind uplift protection can be optimized by using the verge element accessory, which is fixed first on the sidewall, then as well on the top of the corrugation.

Overlapping stripes

top fixing

side fixing

4a. Ensure watertightness at ridge by applying the ONDUVILLA® foam fillers, on both sides of the ridge line.
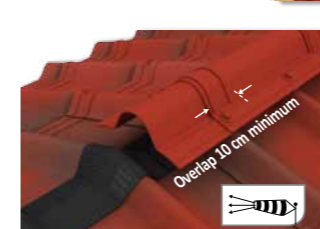
4b. Cover the ridge with the Slim cap and fix it on each side of the roof, through the foam fillers, on top of the corrugations.
The direction of the overlap is opposite to the direction of the prevailing winds.

Overlap 10 cm minimum

5. Finish the ridge with the Closure cap element for better aesthetic and better waterproofing.

1.0 ROOFING

ONDUVILLA®

A complete, aesthetic and unique roofing system, composed of bitumen tiles & accessories.

BENEFITS

- **AESTHETIC**
- **WATERTIGHT**
- **ECO-RESPONSIBLE**
- **EASY TO FIX**
- **LIGHTWEIGHT**
- **ONDULINE® SEALSMART™**

TECHNICAL CHARACTERISTICS

Length	106 cm
Width	40 cm
Thickness	3 mm
Corrugation height	40 mm
Weight per tile	1,27 kg
Weight per m²	4 kg
Coverage per tile	0,31 m²
Coverage per bundle	2,17 m²
Tiles per m²	3,23 pcs
Tiles per bundle	7 pcs
Bundles per pallet	57
Useful surface per pallet	123,69 m²
Carbon footprint	4 kg eq CO$_2$/m²
Norm	Comply with EN 544 CE

WATERPROOFING **15 YEARS** WARRANTY

106 cm

40 cm
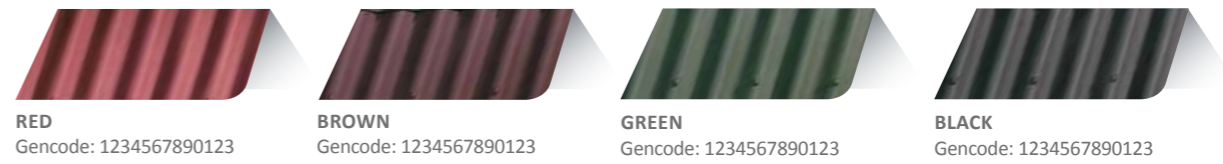
RED
Gencode: 1234567890123

BROWN
Gencode: 1234567890123

GREEN
Gencode: 1234567890123

BLACK
Gencode: 1234567890123

ACCESSORIES

Packaging	Standard ridge 90 x 50 cm	Verge 110 x 33 cm	Circular nails 60 mm	Universal screws 60 mm
	Package of 15 ridges	Package of 20 verges	Blister of 50 nails	Bag of 100 screws
Red	1234567890123	1234567890123	5412520701810	3467670015722
Brown	1234567890123	1234567890123	5412520702039	3467670015739
Green	1234567890123	1234567890123	5412520702022	3467670015746
Black	1234567890123	1234567890123	5412520701919	3467670015715

1.0 | ROOFING

ONDULINE® CLASSIC

Lightweight corrugated sheet. Reliable and well-known solution, suitable for a wide range of applications.

## BENEFITS

EASY TO FIX

LIGHTWEIGHT

ONDULINE® SEALSMART™

WATERTIGHT

ECO-RESPONSIBLE

TECHNICAL CHARACTERISTICS

Length	200 cm
Width	95 cm
Thickness	3 mm
Corrugation height	38 mm
Weight per sheet	6,8 kg
Weight per m²	3,6 kg/m²
N° sheet per pallet	100 pcs
Carbon footprint	4 kg eq CO_2/m²
Norm	Comply with EN 544 CE

95 cm

200 cm

WATERPROOFING
10 YEARS
WARRANTY

INSTALLATION INSTRUCTIONS

1. Start laying sheets over the gutter line with max 7 cm overhang, lay sheets in the opposite direction to the prevailing winds.

The second row has to be started with half a sheet cut parallel to the corrugations, to misalign side overlaps.
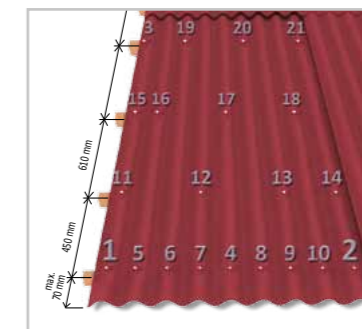
2. Approximately 20 fixings should be used per sheet.
Every corrugation should be fixed at eaves, overlaps and ridges.
Every second corrugation has to be fixed at the intermediate purlins. The fixing at the intermediate purlins has to be staggered.
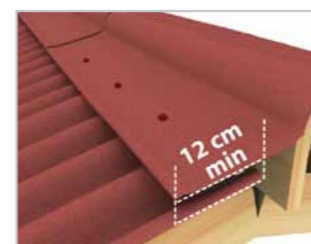
3a. The ridge element has to overlap the ONDULINE® sheet min 12 cm.

12 cm min

3b. The ridge elements are fixed in opposite direction to the prevailing winds.

12.5 cm min

COLOR RANGE

RED
Gencode: 3467670017108

BROWN
Gencode: 3467670017153

GREEN
Gencode: 3467670017115

VARNISH BLACK
Gencode: 3467670018945

ACCESSORIES

Packaging	Universal ridge / verge 110 x 33 cm	Circular nails 60 mm	Universal screws 60 mm
	Package of 20 verges	Blister of 50 nails	Bag of 100 screws
Red	3467670011939	5412520701810	3467670015722
Brown	3467670011946	5412520702039	3467670015739
Green	3467670011953	5412520702022	3467670015746
Black	3467670018938	5412520701919	3467670015715

1.0 | ROOFING

ONDULINE® EASYLINE

Easy to install, ONDULINE® EASYLINE sheets are light and, due to their dimensions, they are perfectly suitable to be used on small canopy roofs.

BENEFITS

EASY TO FIX

LIGHTWEIGHT

ONDULINE® SEALSMART™

**WATERTIGHT**

ECO-RESPONSIBLE

TECHNICAL CHARACTERISTICS

Length	100 cm
Width	76 cm
Thickness	2,6 mm
Corrugation height	38 mm
Weight per sheet	2,5 kg
Weight per m²	3,28 kg
Sheets per pallet	200 pcs
Carbon footprint	4 kg eq CO_2/m²
Norm	Comply with EN 544 CE

100 cm
76 cm

WATERPROOFING
5 YEARS
WARRANTY

INSTALLATION INSTRUCTIONS

Prevailing wind

4 - 5
1 2 3

1. Laying in staggered rows avoids the superposition of 4 sheet thicknesses at overlap points. Always start your first row below the gutter, leaving maximum 7 cm overhang. Begin the second row with half an ONDULINE® EASYLINE sheet (cut lengthwise) and carry on with complete sheets.

Wind / rain

8 100
5 6 7 100
1 2 3 4 100
min 20
min 20
76 76 76 76
1 2 3 4
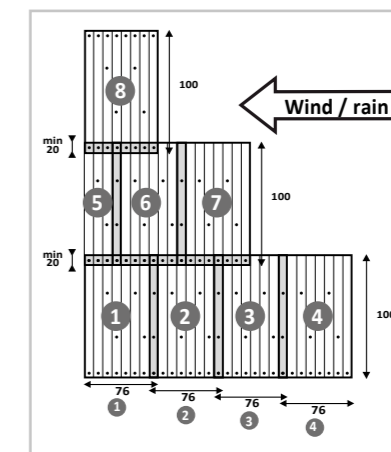
2. Sheets must be fixed onto each of their supporting battens.
Every corrugation should be nailed at eaves, overlaps and ridges.
Every second corrugation has to be fixed at the intermediate purlins.
The fixing at the intermediate purlins has to be staggered.

12 cm min

12.5 cm min
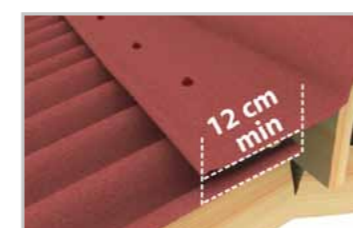
3a. The ridge element has to overlap the ONDULINE® EASYLINE sheet min 12 cm.

3b. The ridge elements are fixed in opposite direction to the prevailing winds.

SHAPE AND COLOR RANGE

RECTANGULAR

RED
Gencode:
3467670012189

GREEN
Gencode:
3467670012219

BROWN
Gencode:
3467670012196

SLATE GREY
Gencode:
3467670012202

BEAVER

RED
Gencode:
3467670012226

GREEN
Gencode:
3467670012257

BROWN
Gencode:
3467670012233
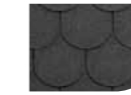
SLATE GREY
Gencode:
3467670012240

TRIANGULAR

RED
Gencode:
3467670017931

SLATE GREY
Gencode:
3467670017948

ACCESSORIES
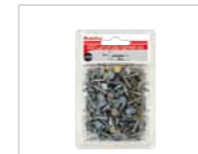
BARDOLINE® nails 20 mm	ONDUMASTIC® 310 ml
Blister of 250 nails	Cartridge
8033576820408	8033576820392

1.0 | ROOFING

BARDOLINE® CLASSIC

Quality shingle for all kind of roof applications. Large choice of color and shapes. Well-known reliability.

BENEFITS

- AESTHETIC
- WATERTIGHT
- EASY TO FIX
- IMPACT RESISTANT

TECHNICAL CHARACTERISTICS

Length	100 cm
Width	34 cm
Thickness	3 mm
Weight per m²	9,4 kg
Useful surface per bundle	2,32 m²
N° tiles per bundles	16 pcs
N° of bundles per pallet	38
Useful surface per pallet	88,16 m²
Norm	Comply with EN 544 CE

WATERPROOFING **5 YEARS** WARRANTY

INSTALLATION INSTRUCTIONS

1. Installation is done on full wooden decking only (thickness >24 mm). For pitches < 35% is recommended to install a previous protection layer. Prepare base course cutting lengthways tile tabs. The eaves course is then bonded to the adhesive tabs of the base course.

2. Use five 20 mm large headed galvanised nails per shingle. Nail through strip centre band and into the top edge of the lower course.

3. If needed shorten the first left (or right) strip by half a tab. On completion check the tile bonding, use adhesive to reinforce laps as required.

4. To complete the ridge line, start always cutting shingles to make the ridge (**see 4a**).
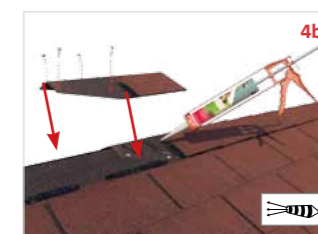
Make sure that the bitumen shingles are sufficiently covered on both sides of the roof. The direction of the overlap is made in the opposite direction to prevailing winds (**see 4b**).

1.0 | ROOFING

ONDUCLAIR®

Single-skin sheet in PVC, Polyester (PLR) or Polycarbonate (PC) for light roofing of shelters, pergolas, annexes, carports or garden houses.

BENEFITS

- LIGHT TRANSMISSION
- IMPACT RESISTANT
- UV RESISTANT
- FIRE RESISTANT
- LIGHTWEIGHT

TECHNICAL CHARACTERISTICS

|	**PVC**			**PLR** (Polyester)		**PC** (Polycarbonate)		
Corrugation Profile	PO 76/18	GRECA 75/18	GO 177/51	PO 76/18	GO 177/51	PO 76/18	GRECA 75/18	GO 177/51
Standard length	200 - 250 - 300 cm			200 - 250 - 300 cm		200 - 250 - 300 cm		
Standard width	90 cm	104 cm	92 cm	90 cm	92 cm	112 cm	112 cm	92 cm
Colours	Crystal			Natural Green	Natural	Crystal		
Thickness	8/10 mm			8/10 mm		8/10 mm		
Light transmission	Crystal 80 %, Opal 65 %			85 %		Crystal 90 %, Opal 66 %		
Fire classification	Euroclass C-s3, d0			Euroclass E		Euroclass B-s1, d0		
N° sheets per pallet	10 pcs			10 pcs		10 pcs		
Norm	Comply with EN 1013 CE							

GENERAL INFORMATIONS

	PVC Light transmission	**PLR (Polyester)** Impact resistance	**PC (Polycarbonate)** Impact resistance + UV
	WATERPROOFING 3 YEARS WARRANTY		*WATERPROOFING 10 YEARS WARRANTY*
PRODUCT ADVANTAGES	- Good light transmission - Excellent light transmission and UV resistance (UV protection on both sides)	- Filtered light effect for good light distribution - Translucent, bringing a smooth, well-distributed and filtered light effect - Excellent impact resistance, high mechanical resistance with the association of polyester resin and fibreglass	- Aesthetics, comfort and protection thanks to excellent light transmission and good durability - Excellent impact resistance (hailstorm) - UV resistance on external side
	- 3 year warranty for light transmission and impact resistance (PVC SG 0,8 mm)	- 10 year warranty for light transmission and impact resistance.	- 10 year warranty for light transmission and impact resistance
	- No warping between -20 & +60 °C	- No warping between -30 & +120 °C	- No warping between -40 & +130 °C
	- Euroclass C-s3, d0	- Euroclass E	- Fire Resistant: Euroclass B-s1, d0 In compliance with norm EN 13501-1: 2002
PROFILES	PO, GRECA, GO	PO, GO	PO, GRECA, GO
APPLICATIONS	Shelters, pergolas, annexes...	Cladding, annexes...	Cladding, greenhouses, annexes...

ACCESSORIES

PO 76/18	GRECA 75/18	GO 177/51
Box of 20 pcs	Box of 20 pcs	Box of 20 pcs
Wood Screw +Distance spacer	Wood screw + Distance spacer	Wood screw + Distance spacer
3467670009806	3467670009820	3467670009813

ONDUCLAIR®

RANGE

PVC
PO 76/18

COLOR	CRYSTAL
2,00 X 0,90 m	3467670002029
2,50 X 0,90 m	3467670002609
3,00 X 0,90 m	3467670001695

PVC
GRECA 75/18

COLOR	CRYSTAL
2,00 X 1,04 m	1234567890123
2,50 X 1,04 m	1234567890123
3,00 X 1,04 m	1234567890123

PVC
GO 177/51

COLOR	CRYSTAL
2,00 X 0,92 m	3467670002166
2,50 X 0,92 m	3467670001701
3,00 X 0,92 m	3467670001718

PLR (Polyester)
PO 76/18

COLOR	OPAL
2,00 X 0,90 m	3467670002654
2,50 X 0,90 m	3467670002944
3,00 X 0,90 m	3467670002661

PLR (Polyester)
GO 177/51

COLOR	OPAL
2,00 X 0,92 m	3467670001824
2,50 X 0,92 m	3467670002647
3,00 X 0,92 m	3467670002920

PC (Polycarbonate)
PO 76/18

COLOR	CRYSTAL
2,00 X 1,12 m	3467670009776
2,50 X 1,12 m	3467670009783
3,00 X 1,12 m	3467670009790

PC (Polycarbonate)
GRECA 75/18

COLOR	CRYSTAL
2,00 X 1,12 m	3467670002234
2,50 X 1,12 m	3467670004191
3,00 X 1,12 m	3467670002241

PC (Polycarbonate)
GO 177/51

COLOR	CRYSTAL
2,00 X 0,92 m	3467670002234
2,50 X 0,92 m	3467670004191
3,00 X 0,92 m	3467670002241
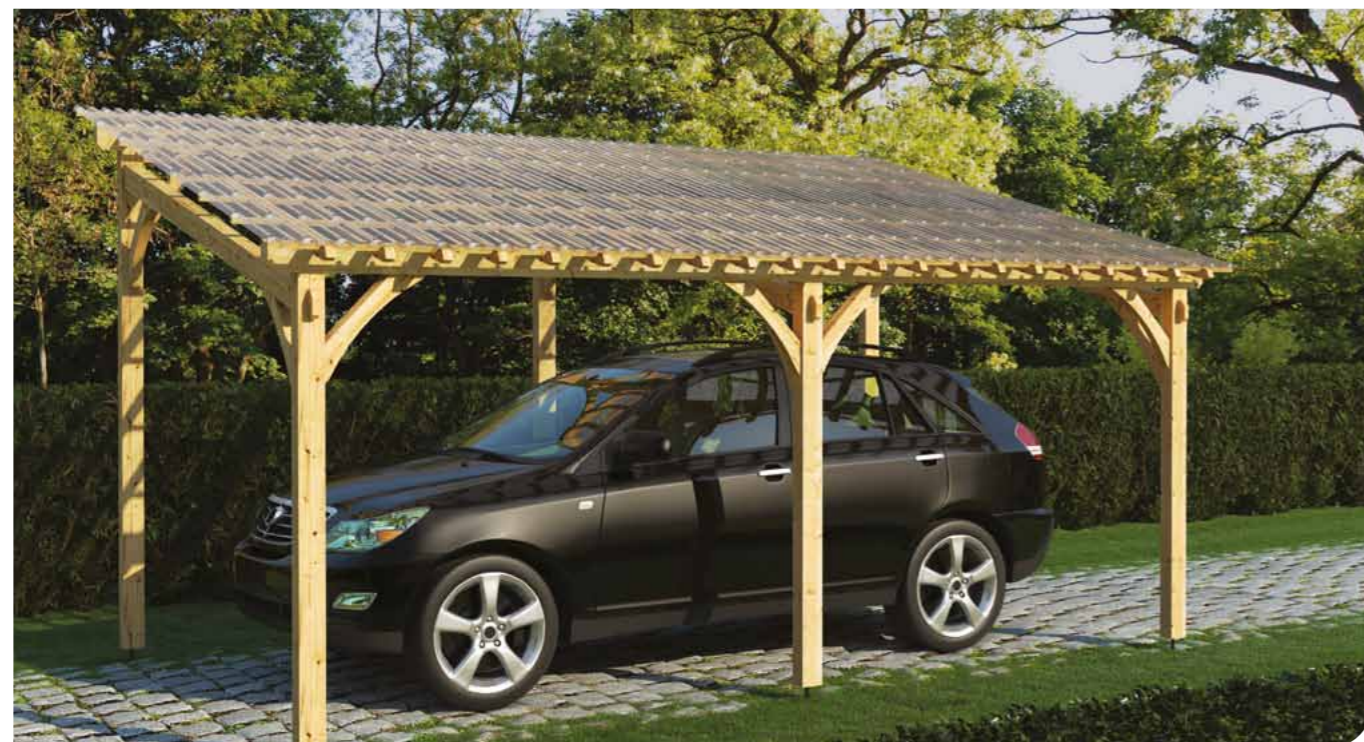
INSTALLATION INSTRUCTIONS

### ROOF SLOPE

The slope and the loads (snow in particular) define the distance between the purlins.

	PO - 76/18	GRECA - 75/18	GO - 177/51
Type			
Minimum roof slope	14° (25 %)	14° (25 %)	14° (25 %)
Distance between purlins	Max. 110 cm	Max. 138 cm	Max. 138 cm
Side overlap	2 corrugations	2 corrugation	1/2 corrugation
End overlap			

Sheets should be laid so that the side laps are away from prevailing wind. Start installation at eaves first, ensuring proper overhang (max. 7 cm).

Wind / rain

200 cm / 200 cm / min 20 cm

7 6 5
4 3 2 1

Purlin position & corrugation fixing depend on profile:

PO

Greca - 75/18

GO
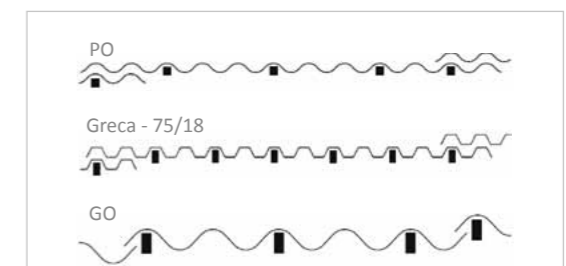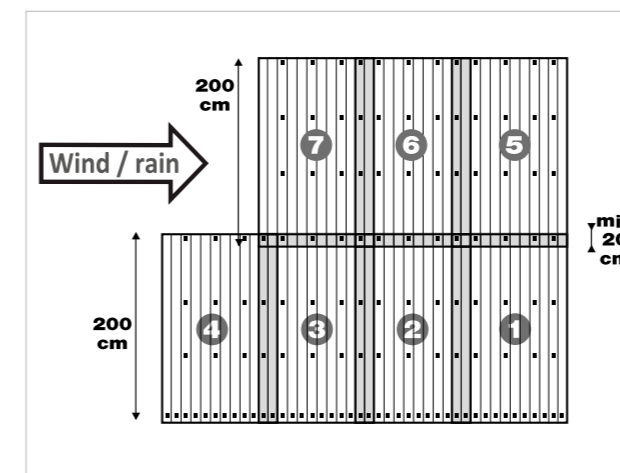
Fixation at min. 50 mm from the end of the sheet.

PVC Sheets: all supports covered with PVC sheets have to be painted in a light color, preferably white to limit heating. The PVC sheets must not be installed as dual walls or over-roofing.

Polyester sheets: in fixing points, pre-drill holes with a diameter of 2 mm larger than fixing element.

PVC and Polycarbonate sheets: pre-drill holes with a diameter of 4 mm larger than the fixing element.

Spacers or saddle supports: the use of spacers (profile support) avoids crushing the sheet when tightening. **No use of PVC washers with PC sheets.**

Cautions:
- Sheets must not be stored and transported in direct sunlight.
- Continuous ventilation under the sheets, from the eaves to the ridge is vital.

PC MULTIWALL

Double and triple layered, for uses such as skylights roofing and covering buildings, swimming pools and glazing.

BENEFITS

- Excellent thermal insulation.
- Controlled daylight transmission.
- Flame retardant.
- Highly flexible and easy to install.
- Lightweight.
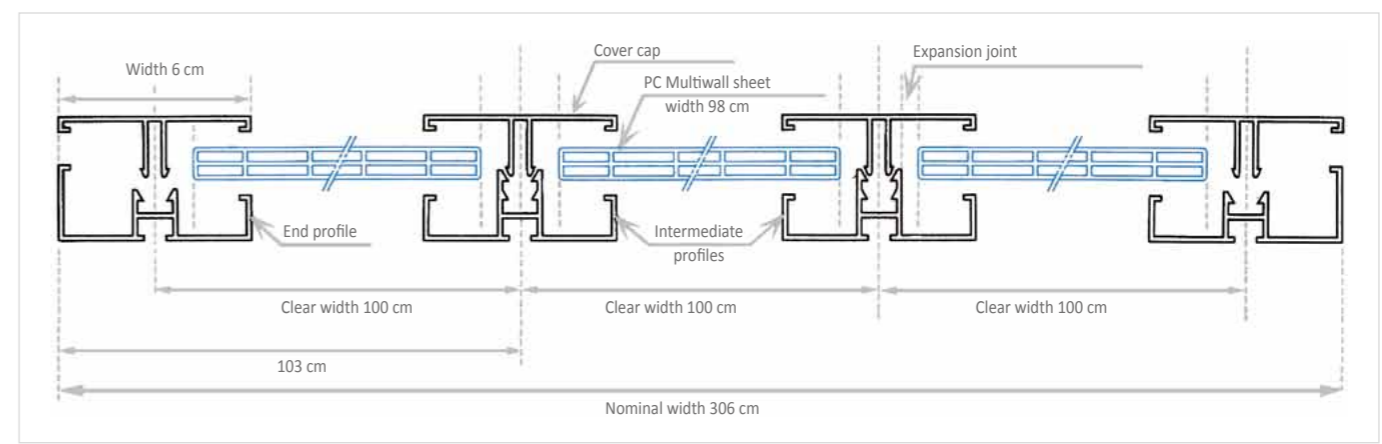- UV blocking layer.
- Environmentally friendly.

TECHNICAL CHARACTERISTICS

PC Multiwall Transparent			
Dimensions	200 - 300 x 105 cm	200 - 300 x 98 cm	200 - 300 x 98 cm
Thickness	6 mm	10 mm	16 mm
Nr of layers	2	2	3
Light transmission	82 %	82 %	74 %
Weight per m²	1,3 kg	1,7 kg	2,7 kg
N° sheet per pallet	50 pcs	50 pcs	50 pcs

WATERPROOFING
★★★★★
10 YEARS
WARRANTY

RANGE

	Color	Thickness	Gencod
2 m x 1,05 m	Transparent	6 mm	3467670000674
3 m x 1,05 m	Transparent	6 mm	3467670006294
2 m x 0,98 m	Transparent	10 mm	3467670007727
3 m x 0,98 m	Transparent	10 mm	3467670007796
2 m x 0,98 m	Transparent	16 mm	3467670007840
3 m x 0,98 m	Transparent	16 mm	3467670007673
3 m x 0,98 m	Transparent	16 mm	3467670004122

ACCESSORIES

	Aluminium End Profile	Aluminium Intermediate profile	Aluminium Cover cap	Polycarbonate H profile	Polycarbonate U profile
2,1 m					3467670006966
3 m	3467670006935	3467670006935	3467670006959		
4 m	3467670006171	3467670006171	3467670006157		
5 m	3467670007031	3467670007031	3467670004276		
6 m				123456789012	

INSTALLATION INSTRUCTIONS

Minimum slope: 15 %

Width 6 cm
Cover cap
PC Multiwall sheet width 98 cm
Expansion joint
End profile
Intermediate profiles
Clear width 100 cm
Clear width 100 cm
Clear width 100 cm
103 cm
Nominal width 306 cm
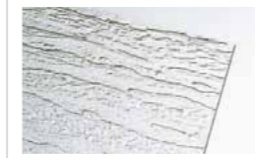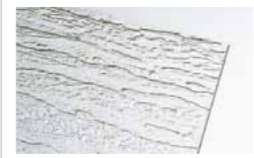
Cautions:
Stock sheets in an area not exposed to the sun or direct heat from the sun. Sheets are supplied with a coloured protective film on upper side. Protective side to be faced toward the sun. Do not remove this film untill the installation is complete.

1. Install main profiles on the purlins, then end and intermediate profiles.

2. Set up adhesive tapes on the top and the bottom of the panel.

3. Install the sheets, walls parallel to the direction of the slope, with the coloured face towards facing the sky.

4. Install the cover caps by clipping. Add a water tight seal on the ridge for the 10 mm sheets.

5. Set up U profile on sheet end.

6. If necessary, use a silicone seal to ensure watertightness between sheets and wall.

1.0 | ROOFING

ONDUGLASS®

Synthetic glass plate for interior design (extruded polystyrene) or outdoor (acrylic), like partitions and windows.

BENEFITS

- **Stronger and more economical than glass.**
- **Twice as insulating as glass.**
- **Transparent.**
- **Easy to work (with traditional tools).**
- **Protected by a polyethylene film on the smooth side.**

TECHNICAL CHARACTERISTICS

Thickness	2 mm, 4 mm
Density	1,19 g/cm³
Light transmission	92 % (2 mm Transparent Plain)
Modulus of elasticity	3200 mPa

WATERPROOFING
10 YEARS
WARRANTY

	BARK sp. 2 mm	BARK sp. 4 mm	STAINED GLASS sp. 2 mm	DIAMOND sp. 2 mm
	Transparent	Transparent	Transparent	Transparent
0,50 m x 1,00 m	3467670005259	3467670005280	3467670005389	1234567890123
1,00 m x 1,00 m	3467670005266	3467670005297	3467670005396	1234567890123
2,00 m x 1,00 m	3467670005273	3767670005303	3467670005402	1234567890123

	HAMMERED sp. 2 mm	HAMMERED sp. 2 mm	DROP sp. 2 mm	SCRATCH sp. 2 mm
	Transparent	Green	Transparent	Transparent
0,50 m x 1,00 m	3467670005440	1234567890123	3467670005501	3467670005532
1,00 m x 1,00 m	3467670005457	1234567890123	3467670005518	3467670005549
2,00 m x 1,00 m	3467670005464	1234567890123	3467670005525	3467670005556

	SCRATCH sp. 2 mm	PLAIN sp. 2 mm	PLAIN sp. 2 mm	PLAIN sp. 2 mm
	Yellow	Transparent	Bronze	Opal
0,50 m x 0,25 m		3467670009165	1234567890123	
0,50 m x 0,50 m		3467670009172	1234567890123	
0,50 m x 1,00 m	3467670005594	3467670005075	1234567890123	3467670005136
1,00 m x 1,00 m	3467670005600	3467670005082	1234567890123	3467670005143
2,00 m x 1,00 m	3467670005617	3467670005099	1234567890123	3467670005150

	PLAIN sp. 4 mm	PLAIN sp. 4 mm
	Transparent	Opal
0,50 m x 0,25 m	3467670009189	
0,50 m x 0,50 m	3467670009196	
0,50 m x 1,00 m	3467670005105	3467670005167
1,00 m x 1,00 m	3467670005112	1234567890123
2,00 m x 1,00 m	3467670005129	1234567890123

WATERPROOFING AND FOUNDATION

Foundations, walls, terraces, flat and pitch roofs, with the wide range of products offered by ONDULINE®, you have always a solution to protect successfully your building from water, rain and moisture.

Made by Daniel
with BITULINE®

Made by Janny and Bob
with ONDUCOAT®

After

Made by me!

Before
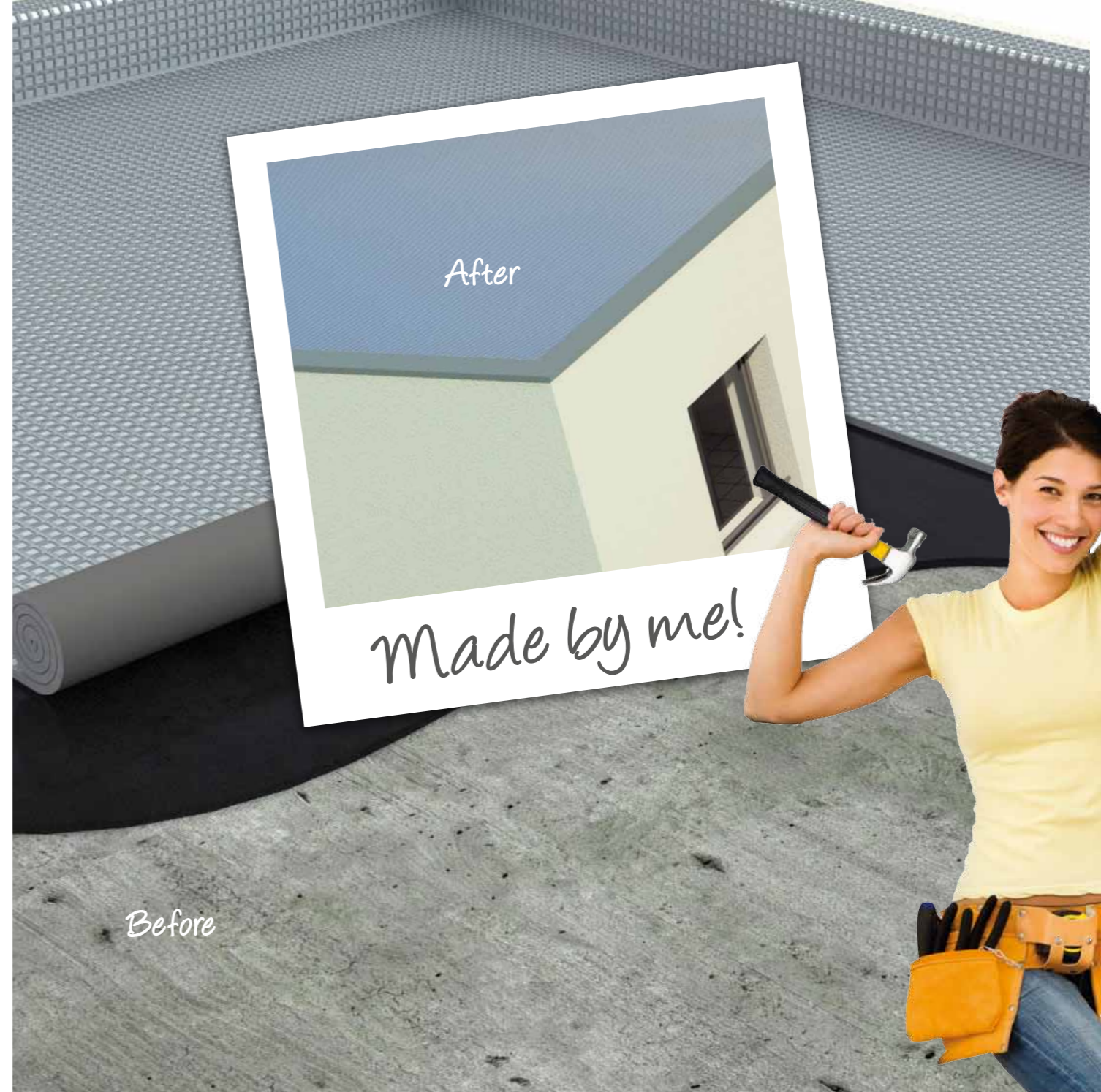
❝ *In my country house I had several moisture and infiltration problems. With BITULINE® I waterproofed the cement roof and walls of my box, while with the liquid membrane ONDUCOAT®, I've easily repaired the terrace. Now I've a long time of serenity.* ❞

Janny. 28. Housewife. |

2.0 | WATERPROOFING AND FOUNDATION

BITULINE®

Torch-on and self-adhesive waterproofing membranes.

BENEFITS

BITULINE® CLASSIC
- Effective waterproofing.
- Broad range of products & colors.
- UV resistant.

BITULINE® FIRST
- Effective waterproofing.
- Broad range of products.

BITULINE® ADHESIVE
- Safe application.
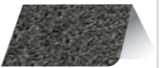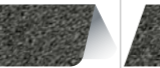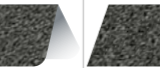- Fast and easy installation.
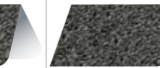- Lightweight.

COLOR RANGE

SAND · RED MINERAL SLATE · GREEN MINERAL SLATE

BITULINE® CLASSIC — UV Resistant

Description	Polymer modified bituminous membrane, TNT polyester (CLASSIC PL) or fibreglass (CLASSIC VV) reinforcement, specially designed roofing products for heat-welded applications. UV resistance guaranteed by a granulated surface (available in RED and GREEN)			
RANGE	BITULINE® CLASSIC PL		BITULINE® CLASSIC VV	
Reinforcement	POLYESTER		FIBERGLASS	
Thickness	-		-	
Dimensions	5 m x 1 m		10 m x 1 m	
Cold Flexibility	0°		0°	
Weight kg/m²	4,0		4,0	
Finishing	RED MINERAL SLATE	GREEN MINERAL SLATE	RED MINERAL SLATE	GREEN MINERAL SLATE
GenCode	1234567890123	1234567890123	1234567890123	1234567890123
Roll/Pallet	39	39	39	39

BITULINE® FIRST — Bituminous

Description	Polymer modified bituminous membrane, TNT polyester (FIRST PL) or fibreglass (FIRST VV) reinforcement, specially designed roofing products for heat-welded applications. Available in different thickness: 3mm and 4mm				
RANGE	BITULINE® FIRST VV		BITULINE® FIRST PL		
Reinforcement	FIBERGLASS		POLYESTER		
Thickness	3	3	3	4	4
Dimensions	5 m x 1 m	10 m x 1 m	10 m x 1 m	5 m x 1 m	10 m x 1 m
Cold Flexibility	0°	0°	-5°	-5°	-5°
Weight kg/m²	4,0	4,0	4,0	4,0	4,0
Finishing	SAND	SAND	SAND	SAND	SAND
GenCode	1234567890123	1234567890123	1234567890123	1234567890123	1234567890123
Roll/Pallet	39	25	25	33	23

BITULINE® ADHESIVE — Self-adhesive membrane

Description	Self-adhesive elastomeric roofing products, manufactured by SBS polymer modified bitumen compound applied on the top layer and an aggressive self-adhesive compound applied on the bottom layer. These membranes are built with a TNT polyester reinforcement.		
RANGE	BITULINE® CLASSIC PL ADHESIVE		BITULINE® FIRST PL ADHESIVE
Reinforcement	POLYESTER		POLYESTER
Thickness	-	-	-
Dimensions	5 m x 1 m	5 m x 1 m	5 m x 1 m
Cold Flexibility	-25°	-25°	-25°
Weight kg/m²	3,5	3,5	3,0
Finishing	RED MINERAL SLATE	GREEN MINERAL SLATE	SAND
GenCode	1234567890123	1234567890123	1234567890123
Roll/Pallet	39	39	39

RANGE

	ONDUTISS®					
RANGE	**ONDUTISS® AIR**			**ONDUTISS® COLD**		**ONDUTISS® STRONG**
Reinforcement	Polypropylene 3 layers			Polyethylene 1 layer + mesh		Bitumen + PET + Fiberglass
Advantages	Breathable, Flexible, Lightweight			Lightweight, Transparent, UV resistant		Flexible, Small dimensions Temporary roof
Product	ONDUTISS® AIR 90	ONDUTISS® AIR 110	ONDUTISS® AIR 135	ONDUTISS® COLD 90	ONDUTISS® COLD 110	ONDUTISS® COLD STRONG
Dimensions	20 m x 1,5 m	20 m x 1,5 m	20 m x 1,5 m	20 m x 1,5 m	20 m x 1,5 m	30 m x 1 m
Weight gr/m²	90	110	135	90	110	450
Color	light grey	grey	dark grey	transparent	transparent	black
Sd value gr/m²	0,03	0,03	0,03	50	50	-
Water resistance	W1	W1	W1	W1	W1	W1
GenCode	1234567890123	1234567890123	1234567890123	1234567890123	1234567890123	1234567890123
Norm	Comply with EN 13859-1 CE					

ONDUTISS®

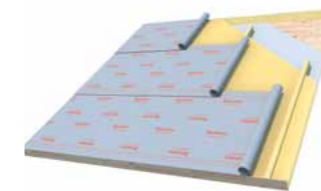*Waterproof foil to protect the whole underroof.*

BENEFITS

- Protection against infiltration of powder snow and dust.
- Temporary protection of roofs.
- Prevention of roof condensation (diffusion of water vapor).
- Underroofing layer to increase the roof watertightness.

ONDUTISS® AIR
Breathing Membrane

ONDUTISS® COLD
Bituminous

ONDUTISS® STRONG
Reinforced Polyethylen

WATERPROOFING 10 YEARS WARRANTY

WATERPROOFING 10 YEARS WARRANTY

INSTALLATION INSTRUCTIONS

For ONDUTISS® AIR Breathable Membrane

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.
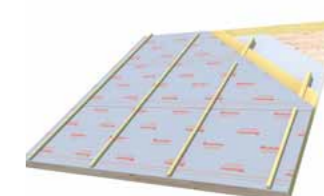
2. Fix the bands directly to the rafters with a stapler. Nail counter batten on top of the membrane through to the rafters to protect the fixing area.
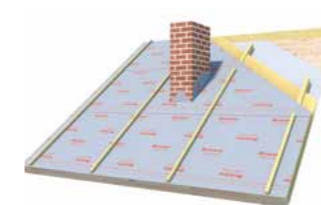
3. In case of any protruding element, cut ONDUTISS® AIR across the width and turn up on the protruding elements (chimneys, ventilations, windows etc.). Fix ONDUTISS® AIR with ONDUTISS® sealing tape.

NOTE: For other types of membranes and detailed fixing guide, please visit www.onduline.com

2.0 | WATERPROOFING AND FOUNDATION

ONDUPRIMER®

Fixing varnish for BITULINE® membranes - bitumen primer for flat roofs

BENEFITS

- Quick drying.
- Easy to use: impregnates and stabilizes the existing surface.
- Ensures that bituminous membranes stick down properly.

RANGE

SIZE	PACKAGE	GENCOD
5 litres	4	5412520706815
10 litres	1	3467670015494
30 litres	1	3467670015500

2.0 | WATERPROOFING AND FOUNDATION

ONDUBLACK®

Waterproof coating for foundation walls - bituminous coating for foundation walls & pipes

BENEFITS

- Solvent free.
- Waterproofs underground walls, tanks and pipes.
- Fixes all types of vertical insulation panels on foundation walls.
- Protects against corrosion.

RANGE

SIZE	PACKAGE	GENCOD
1 kg	12	1234567890123
5 kg	4	1234567890123
10 kg	1	5412520709915

2.0 | WATERPROOFING AND FOUNDATION

ONDUSTICK®

Cold applied adhesive for BITULINE® membranes, semi liquid cement for bituminous roofing membranes

BENEFITS

- Fibre-reinforced.
- Ensures bituminous membranes stick down properly on flat surfaces.
- Can be used for fixing slate chippings.

RANGE

SIZE	PACKAGE	GENCOD
1 kg	12	5412520707317
5 kg	4	5412520707416

2.0 | WATERPROOFING AND FOUNDATION

ONDUMASTIC®

Fibre-reinforced filler for membranes & adhesive for shingles, fixing compound for roofs

BENEFITS

- Fills up fissures and cracks in bitumen roofing membranes
- Ensures a waterproof seal between roof and chimneys, domes, drains, air vents, edges…
- Can be used as an adhesive for shingles in cold weather.

RANGE

SIZE	PACKAGE	GENCOD
310 ml	12	5412520708017
1 kg	12	5412520707713
5 kg	4	5412520707911

2.0 | WATERPROOFING AND FOUNDATION

ONDUCOAT®

Renovation & maintenance coating

BENEFITS

- Activates or restores the waterproofing properties of roof.
- Ideal for the maintenance and protection of bitumen, metal or concrete based waterproofing.

RANGE

SIZE	PACKAGE	GENCOD
5 lt	4	5412520708819
0,75 lt	12	5412520709519

2.0 | WATERPROOFING AND FOUNDATION

ONDUPAINT®

Acrylic dispersion-based cosmetic and water-repellent renovation coating - Paint for roofing renovation

BENEFITS

- Inhibits the growth of moss.
- Does not impair the breathing capabilities of roofing.
- Creates a barrier between the material and stagnant water.

RANGE

SIZE	PACKAGE	GENCOD
5 lt	4	5412520710218

| ALUMINIUM | LEAD | TERRACOTTA | RED |

Dimensions	Package	ONDUBAND® EASY ALUMINIUM	ONDUBAND® EASY LEAD	ONDUBAND® EASY TERRACOTTA	ONDUBAND® EASY RED
5 m x 5 cm	15 rolls	1234567890123	1234567890123	1234567890123	1234567890123
5 m x 7,5 cm	10 rolls	1234567890123	1234567890123	1234567890123	1234567890123
5 m x 10 cm	6 rolls	1234567890123	1234567890123	1234567890123	1234567890123
5 m x 15 cm	4 rolls	1234567890123	1234567890123	1234567890123	1234567890123
5 m x 30 cm	2 rolls	1234567890123	1234567890123	1234567890123	1234567890123

2.0 | WATERPROOFING AND FOUNDATION

ONDUBAND® EASY

A multipurpose bituminous adhesive tape, for sealing penetrations, minor repairs on roofs, flashing of chimneys.

BENEFITS

- **Multipurpose use, flexible application.**
- **Easy to use: just use a cutter or shears.**
- **Excellent adhesion to most substrates.**
- **Design that easily blends in with your surrounding.**

TECHNICAL CHARACTERISTICS

Length	5 m
Width	5 - 7,5 - 10 - 15 - 30 cm
Thickness	1,1 mm
Weight per m²	1,55 kg/m²

WATERPROOFING 10 YEARS WARRANTY

ANTI - UV 5 YEARS WARRANTY

INSTALLATION INSTRUCTIONS

1. Clean the substrate.

2. Use ONDUPRIMER® if the substrate is porous.

3. Cut ONDUBAND® to size with a cutter or shears.

4. Remove the silicone film on the back of the band.

5. Mount on the whole surface.

FONDALINE®

Protective and drainage cladding for subterranean walls. High density polyethylene membrane designed to protects buried walls and bitumen membranes.

BENEFITS

- Exceptional long lasting in the time, creating an air sealing between the membrane on the wall and the soil, which allows optimal consolidation of the basement.
- Effective resistance (to attack of roots, fungi, bacteria, shock and pressure of backfill).
- Excellent frost resistance.

TECHNICAL CHARACTERISTICS

Length	20 m
Width	100 - 150 - 200 - 250 cm
Weight per m²	400 g/m²
Norm	Comply with EN 13967 CE

RANGE

	Gencod
20 m x 1,00 m	3467670009257
20 m x 1,50 m	3467670009240
20 m x 2,00 m	3467670009264
20 m x 2,50 m	3467670000902

ACCESSORIES

Fixing washers	FONDALINE® Finishing profile
Bag of 200 pcs	Box of 50 pcs
3467670008991	3467670004252

ONDUTEX®

Non-woven screening material for underground protection and drainage of alleys.

BENEFITS

- Avoid weed growth and roots.
- Avoid collaps of alleys.
- Protect paths.
- Facilitate drainage.

TECHNICAL CHARACTERISTICS

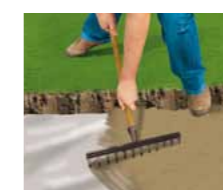| Dimensions	0,7 x 60 - 2 x 10 - 1 x 10 - 1 x 20 - 2 x 25 m
Weight per m²	100 g/m²
Norm	Comply with EN 13252 CE

RANGE

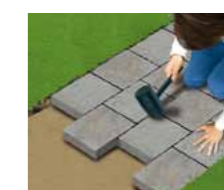|	Gencod	Package
0,70 m x 60 m	3467670009677	Pallet of 39 rolls
2 m x 10 m	3467670010376	Box of 14 rolls
1 m x 10 m	3467670009714	Box of 30 rolls
1 m x 20 m	3467670009684	Box of 15 rolls
2 m x 25 m	3467670009707	Box of 6 rolls

INSTALLATION INSTRUCTIONS

PEDESTRIAN PAVING PATHS

1. Create a 10 to 20 cm recess in the ground, depending on the type of paving used. Even out any slope and compact.

2. Unroll the geotextile and spread a coat of sand at least 5 cm thick over it.

3. Tap in and adjust the paving using a rubber mallet.

GRAVEL ALLEYS

1. Create a 10 cm recess in the ground. Even out any slope and compact.

2. Unroll the geotextile and spread a coat of gravel at least 5 cm thick over it.

3. Enjoy your new long-lasting gravel alley.

How?

What?

Why?

FAQ

BARDOLINE®

What are the tips to know to ensure proper installation?

Plan 15 % shingles more for the ridge and the starter row (that has to be installed upside down, see installation guidelines), 35 nails/m² and 1 ONDUMASTIC® glue cartridge for 6 m².

ONDUVILLA®

Does it crack and corrupt in hot and cold weathers?

ONDUVILLA® tiles may be applied both in the most cold and most hot and humid climates easily. No problems have been encountered in applications made in areas where the temperature was +50°C under shadow and in regions where the cold was almost -50°C.

Does its color change?

ONDUVILLA® is affected slightly by UV. However, due to the coloring process, this change is not felt and it preserves its color for many years.

What is the minimum pitch?

The minimum pitch is 15 %, with the use of a full deck or 30 % for a batten structure.

What are the tips to prepare the installation?

A pack of 7 tiles covers a useful surface of 2.17 m².
Fixings are not included in the pack.
About 13 fixings are needed per m².

How can ONDUVILLA® be installed on wood batten?

In that case, the maximum width distance between purlins is 32 cm.

How to install a gutter to an ONDUVILLA® roof?

A gutter can be installed, provided it is not fixed directly on the tiles, but on the structure.

ONDUTISS®

What is the difference between a bituminous membrane and a breathing membrane?

- A bituminous membrane has to be ventilated on each side (above/below).

- A breathing membrane can be directly installed on the insulation and ventilated on the upper side.

ONDUCLAIR® Plastic range

What is a single-skin sheet?

It's a sheet composed of a single thin wall.

What is the difference between Transparent, Crystal and Opal?

- Transparent: one can see the shape, not the colour.
- Crystal: one can see shape and colour.
- Opal: one can't see shape nor colour.

What are the classes for Polyester (PLR)?

	Norm	Min glass fibre/m²	Average thickness (mm)
Do-it-yourself work	Class 1	270	0.8 (+/- 0.09)
Wall cladding	Class 2	350	1.0 (+ 0. 14/- 0.10)
Roof / Cladding	Class 3	450	1.3 (+/- 0.14)
Roof / Cladding	Class 4	580	1.7 (+/- 0.25)

What is the fire performance?

- Polyester (PLR): Euroclass E
- PVC: Euroclass C-s3, d0
- Polycarbonate (PC): Euroclass B-s1, d0

What is the light transmission?

- Polyester (PLR): 80 %
- PVC Crystal: 85 %
- PVC Opal: 65 %
- Polycarbonate (PC) Crystal: 90 %
- Polycarbonate (PC) Opal: 66 %

What are the installation rules (maximum purlin distance, overlapping and fixing)?

	Ribbed	Higher corrugations	Smaller corrugations
Side overlap	1 corrugation	1/2 corrugation	2 corrugations
End overlap	150 mm	150 mm	150 mm

To avoid the plastic deformation when fixing, set up a distance spacer between the support and the sheet at the fixing point.

ONDULINE® RECOMMENDS:

- **Ventilate the roof:** keep an air flow under the roof as there is a natural concentration of humidity below the roof.

- **Take care of the minimum recommended slope** to facilitate the water run-off:
  - ONDUCLAIR® Ribbed: 7 % (4°)
  - ONDUVILLA®: 15 % (9°), ONDULINE®: 9 % (5°), BARDOLINE®: 27 % (15°) Rectangular, 36 % (20°) Beaver & Triangular
  - ONDUCLAIR®: 25 % (14°) (PO & Greca).

- **Use the appropriate quantity of fixing** to ensure a better resistance to wrenching:
  - ONDULINE®: 10 fixings / m²
  - ONDUVILLA®: 16 fixings / m²
  - BARDOLINE®: approximately 35 nails / m².

- **Maintain regularly your roof** for a better durability: remove vegetation and leaf debris, take care of evacuations, accessories and structure, and maintain continuous ventilation.

GENERAL QUESTIONS

What warranty offers Onduline®?

In normal installation and usage conditions, Onduline® product warranty is:

- **ONDUVILLA®:** 15 years Waterproof

- **ONDULINE® CLASSIC:** 10 years Waterproof

- **BARDOLINE® CLASSIC & ONDULINE® EASYLINE:** 5 years Waterproof

- **ONDUCLAIR®:** light transmission and impact resistance
  - PVC: 3 years waterproof (PVC SG 0,8 mm)
  - PLR (Polyester): 10 years waterproof
  - PC (Polycarbonate): 10 years waterproof.

What are the fixings used with Onduline® solutions?

- Wood support:
  - Universal screw with pressure washer, saddle support, sealing, washer (sketch)

- Metal support:
  - Universal screw with pressure washer, saddle support, sealing washer

- On concrete:
  - Wall plug + screw with pressure washer, saddle support, sealing washer.

What is the time needed to install Onduline® solutions? (estimated time for 1 person installing on a standard and simple surface)

- ONDUVILLA®: 7 m²/hr (including components).

- ONDULINE®: 9 m²/hr.

- BARDOLINE®: 5 m²/hr - 1 ml/hr for ridges and valleys.

Who is Onduline®?

- **Established in** **1950**
- **Worldwide** **leader** in lightweight roofing
- **More than** **60** **years** of industry experience
- **More than** **1,600** **employees** and **43** nationalities
- **Sales of** **348** **million Euro** turnover in 2012
- **10** **plants** in **9** countries, fully certified
- **Present in over** **100** **countries** via **42** **subsidiaries**
- **Over** **150** **million m²** of roofing solutions sold every year

Protection above all

Whatever the need, Onduline® is determined to deliver **Protection above all**. That means protecting our end-customers, protecting your profits, and protecting our environment, all at the same time!

The Onduline® brand was born in France back in 1950 with the introduction of our first cellulose-bitumen-based roofing solution and under-roofing material. Over the next half century, we expanded rapidly across Europe and, more recently, throughout South America, East Asia and North America. Today, Onduline® delivers high-performance products and award-winning roofing solutions **to more than 100 countries worldwide**. And in addition to our long-time focus on professionals, we've also adopted a specialized approach for our Do-it-Yourself customers, offering the same level of professional quality.

We don't see ourselves as just a 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 in R&D.

And through our first-rate logistics service, our local sales force offers **easily accessible stock** and **timely delivery.**

So be sure that we talk to you as a **strong DIY partner**.

Simplicity *Reliability*

All for you!

Local sales force

Just a phone call away!

Integrated R&D

Production quality

Reliable logistics

WOULD YOU LIKE TO DISCOVER OUT MORE
about ONDULINE®?

Please visit our website at
www.onduline.com

Onduline®
35, rue Baudin
92300 Levallois-Perret, FRANCE
www.onduline.com

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camera at this code
and scan.