

ONDEX BIO



The control of light!

The range of ONDEX BIO sheets was designed for claddings and roof coverings of greenhouses and garden centres.

ONDEX BIO sheets are available in 5 colour shades from crystal to opaque. They are suitable for all types of cultures and are also used for storage buildings or technical rooms.

3 ranges for all your projects

Renovation or new construction



The economical range

Even if thinner ONDEX BIO1 sheets still have excellent optical and mechanical qualities.

projects with less demanding specifications where the characteristics of polycarbonate sheets are considered to be sufficient.

BIO 2

For all types of greenhouses

ONDEX BIO 2 sheets have been used for more than 40 years throughout the world. They adapt to all types of applications.

HP version (High Protection) for very sunny regions



PERFORMANCE IN CYCLONIC AREAS

BIO 3

The thickest range for extreme conditions

They are mainly intended for cyclone prone and high altitude areas.

NB: Product available upon request

HP version (High Protection) for very sunny regions



GOOD PERFORMANCE IN CYCLONIC AREAS



RESISTANCE TO
CHEMICAL AGENTS
List upon request



VERYHIGH SHOCK RESISTANCE



RESISTANCE AT LOW TEMPERATURE



FIRE CLASSIFICATION EUROCLASS B s1 d0





HAIL RESISTANCE



100% RECYCLABLE



PRODUCT BENEFITS



Light transmission adapted to



Increased mechanical resistance to



- Better chemical resistance than most
- Increased light in the greenhouse thanks to
- Reinforced UV protection
- Resistance at low temperatures
- Compatibility with many phytosanitary products and products used in agriculture

Light diffusion and transmission Optical data

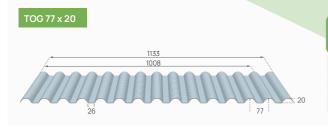
0 3 Haze Diffusion % Hemispherical Light Compatible Colour shades G value light transmission % transmission % crops Tomatoes - Peppers Crystal Melons 90 13 max. 76 0.83 Early courgettes - TOG 77 x 20 CBD - TO 76 x 18 Sludge drying Flowers Strawberries Crystal DIFFU80 85 80 mini. 65 63 0.75 Courgettes - TOG 77 x 20 Salads Organic in high summer Flowers Mixt DIFFU100 89 80 61 95 mini. 0.75 Orchids - TOG 77 x 20 **Anthuriums** Green plants Mixt 50 45 95 mini. 34 81 0.50 Vanilla - TO 76 x 18 Endives White Opaque Mushrooms completely opaque 0.08 Pre-shipment - TOG 77 x 20 storage Percentage of direct Incoming light beam Total solar energy Percentage of light Ability to transform the solar radiation that that deviates from the beam into a wide beam despite the slope and transmittance factor incident beam by more limiting the shadows (0 - 1 Max) passes vertically and is the glares transmitted indoors than 2.5 degrees when cast passing through

Values for the BIO 2 range. The values given are nominal and may vary according to manufacturing tolerances. Technical specifications are subject to change without prior notice.

- Determined with a haze-guard
- 2 Data from Wageningen UR light lab (The Netherlands) between 400 and 700 nm
- 3 Determined with the Lambda 950 spectrometer between 200 and 2400 nm
- Non-exhaustive list

Profiles

Installation



Longitudinal overlap	Useful width (mm)	Area of sheet for 1 m² of roofing/cladding (m²)	Range	Maximum gap between supports (m)
2 waves	1008	1.14	BIO 3	1.5
			BIO 2	1.4
			BIO 1	1.3

988

2 waves	988	1.14	BIO 2	1.2
			BIO 1	1.1

GRECA 72 x 5 Low cladding - sliding door - interior partition

1125
1008

2 waves	1008	1.13	BIO 2	0.6
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Ranges Weight (kg/m²) Hail warranty **Features** BIO 3 range 1.0 1.6 10 years 10 years 10 BIO 2 range 0.9 1.45 10 years 10 years 10 BIO 1 range 0.7 1.10 7 years 10 years 15

Colour shades

6 standard formulations available *



^{*} Colour shades available for some profiles, other profiles possible upon request Laser test: Simulation of light transmission and diffusion.







WHAT IS BI-STRETCHING?

An exceptional resistance «Made in France»

Invented and patented in 1964, this process is unique in the world for the production of cladding and roofing sheets.

Bi-stretching involves stretching the sheet in both width and length before giving it its final shape.

This entirely mechanical process is perfectly stable over time and gives the **ONDEX** sheets their incomparable resistance.

More than four times higher than non bi-stretched PVC sheets!

WHAT IS PVC? POLYVINYL CHLORIDE

It has been produced industrially since the 1960s and is now the most widely used plastic material in the world in the construction industry.

It is a thermoplastic resin that easily accepts the shape you want to give it.

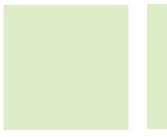
ONDEX uses the bi-stretching of PVC to manufacture its sheets





























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