

RENOLIT ONDEX



Rely on it.

RENOLIT ONDEX HR



www.ondex.com

*The
High-Resistance
PVC sheet*



Welcome to RENOLIT ONDEX

THE PARTNER FOR ALL YOUR PROJECTS

RENOLIT ONDEX has been a French subsidiary of the RENOLIT AG Group since 2006.

RENOLIT AG is one of the world's leading manufacturers of high-quality films and thermoplastic products. This independent family company has been making its mark in terms of quality and innovation for 60 years. It currently employs 4300 people on more than 30 production and distribution sites. The name **RENOLIT** is synonymous throughout the world with technical expertise, modern product design and customer-oriented services.

A world player in the field of plastic sheeting, **RENOLIT ONDEX** has been producing flat and corrugated sheets for more than 40 years.

The manufacturing method - bi-stretching - gives **RENOLIT ONDEX** products their originality, with incomparable mechanical strength.

RENOLIT ONDEX exports more than 80 % of its production. ONDEX sheets are used throughout the world in forty countries.

RENOLIT ONDEX products are used in fields as varied as:

- industrial construction
- building industry
- horticulture and agriculture
- wall protection
- decoration

BI-STRETCHING

AN ONDEX PROCESS WHICH GENERATES OUTSTANDING STRENGTH

The manufacturing process used to produce ONDEX sheets is original and unique in the PVC sheet sector.

ONDEX sheets are produced by a classic extrusion process. But the originality and exclusivity of this manufacturing process lies in its bi-stretching, which consists of stretching the sheets in both directions - in length and width. This creates a mesh in the molecular structure as the threads and weft in fabric. This completely mechanical process is perfectly stable over time and does not require the use of chemical additives which would be likely to speed up ageing of the sheets.

This molecular reorganization gives ONDEX sheets their incomparable strength.



ONDEX Bi-stretched





RENOLIT ONDEX HR High Resistance

THE REFERENCE IN ROOFING AND CLADDING

RENOLIT ONDEX BI-STRETCHED PVC sheets in the High Resistance range are designed for use in roofing and cladding.

They are particularly suitable for industrial construction.

The qualities of ONDEX HR sheets are such that they can be used in the most difficult environments for high quality constructions:

- Sustainability, durability;
- Strength, 1200 J shock-resistance, mechanical strength, hail and sport ball resistant;
- Fire classification M1, B1, class 1 (BS476-Part 7, Euroclasses), self-extinguishable, smoke extraction;
- Adapted light (crystal, translucent, diffusing ivory or opaque);
- Low temperature resistant
- Weather resistant (rain, snow or wind);
- Ageing resistant (bi-stretching and coextrusion combined);
- Bendability for use on a bent structure (concave or convex);
- Watertightness (dimensional stability);
- Resistant to salt climates;
- Chemical resistance (wide range of resistance);
- Technical certification (Avis Techniques CSTB, 1200 J, Zulassung, ITB Aprobata techniczna, VUPS Certificaeni spolecnost, BG Bau, Class B non-fragile...).



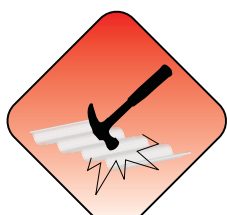
3





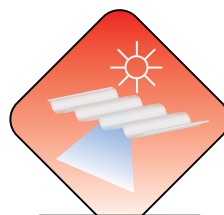
7 good reasons for choosing RENOLIT ONDEX HR

4



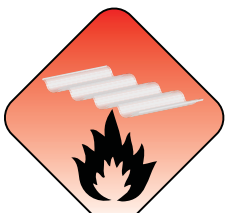
Shock-resistance

Very high shock-resistance.
ONDEX HR sheets are certified 1200 Joules (50 kg bag falling from a height of 2.4 m)



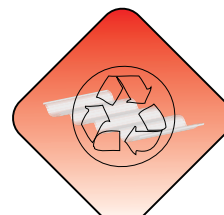
Light transmission

Light transmission appropriate to the application through a range of colours from crystal to opaque.



Fire classification B1

No fire propagation and no droplets.
Self-extinguishable and retractable, ONDEX HR sheets facilitate smoke evacuation.



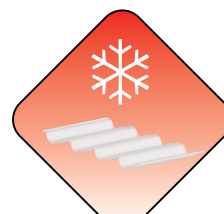
100 % recyclable

Since PVC is a recyclable and recycled material, ONDEX HR sheets can be used as part of a Sustainable Development Policy.



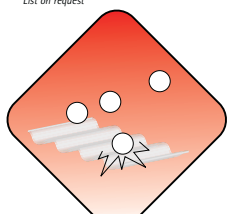
Chemical resistance*

Can be used on chemical or food processing industrial sites.
Resistant to urban pollution and salt mist.



Low temperature resistance

Even at low temperatures, ONDEX HR sheets retain their performance.



Hail resistance

Hail resistance tested by a throw of marbles weighing 38 g, with a 40 mm diameter at 200 kph at a temperature of 0°C.

* List on request



In cladding and roofing

RENOLIT ONDEX HR IS PART OF THE MOST AUDACIOUS PROJECTS!



Colours

6 standard colours available*



Neutral crystal



Natural translucent



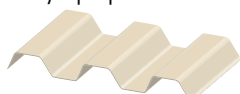
White opaque



Grey opaque



Smoked crystal



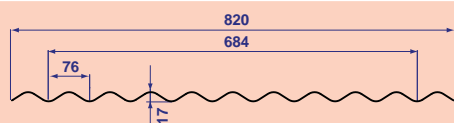
Diffusing ivory

**Colours available in certain profiles, other colours possible on request
Non-contractual representation*

Profiles

Max. gap between centre line in purlin Area of sheet for 1 m² of roofing/cladding Minimum slope Average number of main fastenings per m²

TO 76 x 18 - 11



1.1 m

1.21 m²

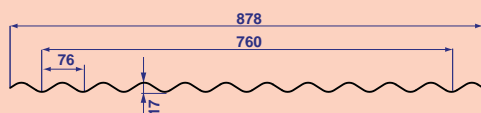
15 %

5.9

Roof fastening



TO 76 x 18 - 12



1.1 m

1.17 m²

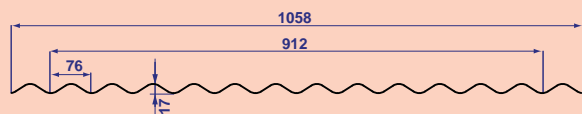
15 %

5.3

Roof fastening



TO 76 x 18 - 14



1.1 m

1.17 m²

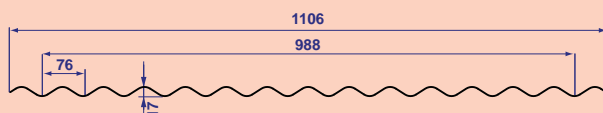
15 %

5.5

Roof fastening



TO 76 x 18 - 15



1.1 m

1.13 m²

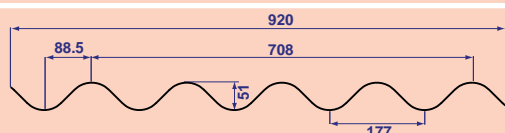
15 %

5.1

Roof fastening



GO 177 x 51
5.5



1.385 m

1.06 m²

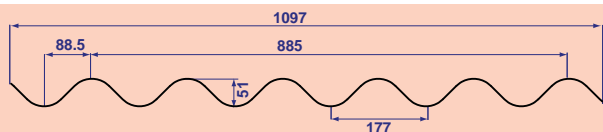
9 %

2.8

Roof fastening



GO 177 x 51
6.5



1.385 m

1/2 wave overlapping
1.06 m²
1 1/2 wave overlapping
1.25 m²

9 %

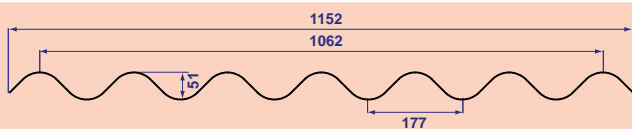
3.2

2.8

Roof fastening



GO 177 x 51
6.75



1.385 m

1.11 m²

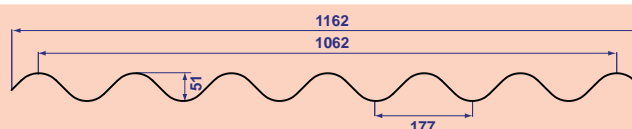
9 %

2.3

Roof fastening



GO 177 x 51
7



1.385 m

1.12 m²

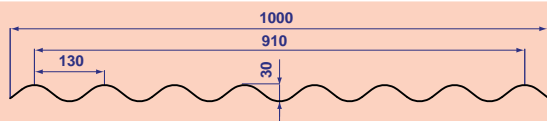
9 %

2.3

Roof fastening



130 x 30



1.2 m

1.1 m²

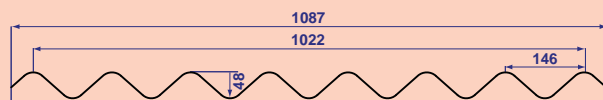
15 %

4.1

Roof fastening



146 x 48 - Big 6



1.38 m

1.09 m²

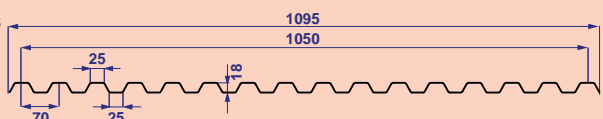
9 %

3.2

Roof fastening



GRECA 70 x 18
1095



1.1 m

1.08 m²

15 %

Roofing 3.1
Cladding 4.2

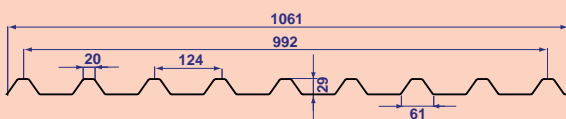
Roof fastening



Cladding fastening



124 x 29
Aluform



1.2 m

1.08 m²

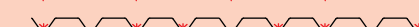
15 %

Roofing 3.8
Cladding 4.7

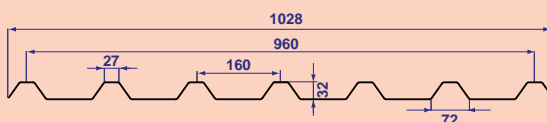
Roof fastening



Cladding fastening



160 x 32 - R32



1.5 m

1.08 m²

15 %

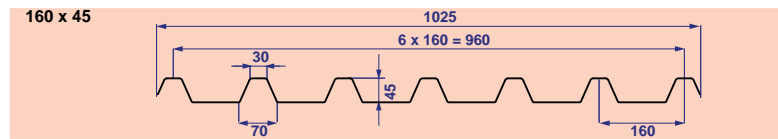
Roofing 2.4
Cladding 3.2

Roof fastening



Cladding fastening





Max. gap between
centre line in purlin

Area of sheet for 1 m²
of roofing/cladding

Minimum slope

Average number of main
fastenings per m²

1.5 m

1.07 m²

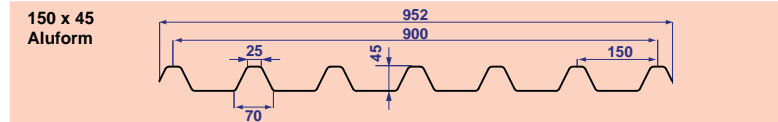
10 %

Roofing
Cladding

2.4
3.2

Roof fastening

Cladding fastening



1.5 m

1.07 m²

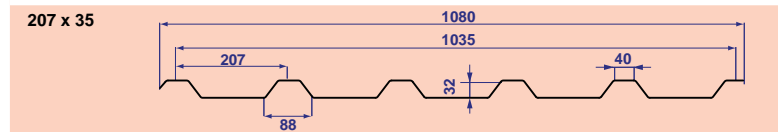
10 %

Roofing
Cladding

2.6
3.4

Roof fastening

Cladding fastening



1.5 m

1.05 m²

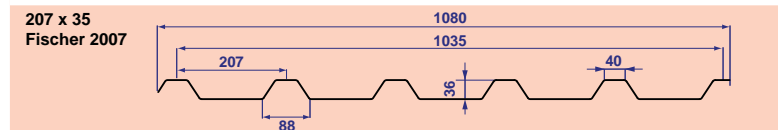
15 %

Roofing
Cladding

3
3.7

Roof fastening

Cladding fastening



1.5 m

1.04 m²

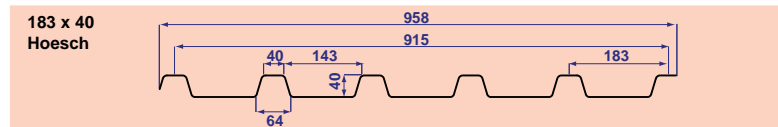
15

Roofing
Cladding

3
3.7

Roof fastening

Cladding fastening



1.5 m

1.06 m²

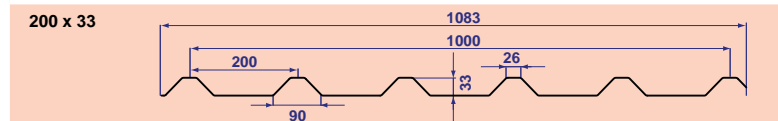
10 %

Roofing
Cladding

2.5
2

Roof fastening

Cladding fastening



1.5 m

1.09 m²

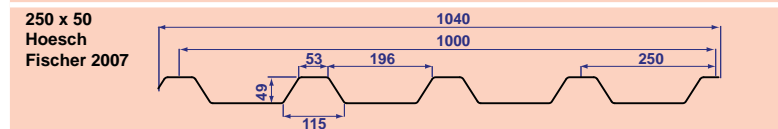
15 %

Roofing
Cladding

2.3
3.8

Roof fastening

Cladding fastening



1.5 m

1.05 m²

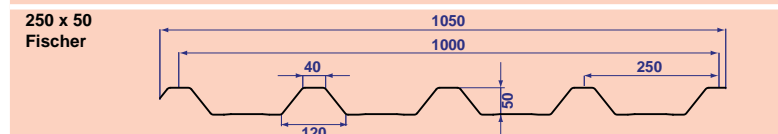
10 %

Roofing
Cladding

3.2
3.2

Roof fastening

Cladding fastening



1.5 m

1.06 m²

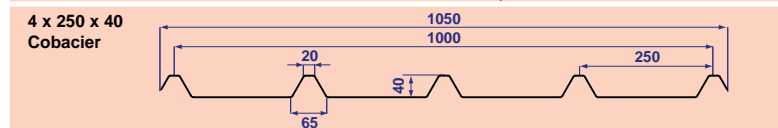
10 %

Roofing
Cladding

3.2
3.2

Roof fastening

Cladding fastening



1.5 m

1.06 m²

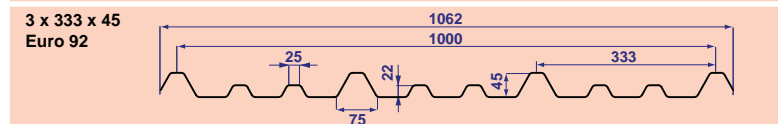
10 %

Roofing
Cladding

3.1
3.8

Roof fastening

Cladding fastening



1.5 m

1.07 m²

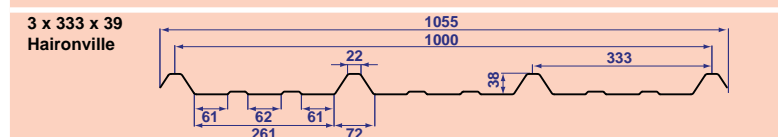
10 %

Roofing
Cladding

2.4
3.2

Roof fastening

Cladding fastening



1.5 m

1.07 m²

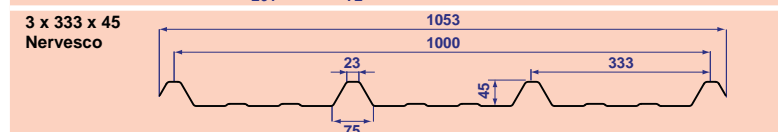
10 %

Roofing
Cladding

2.5
3.4

Roof fastening

Cladding fastening



1.5 m

1.07 m²

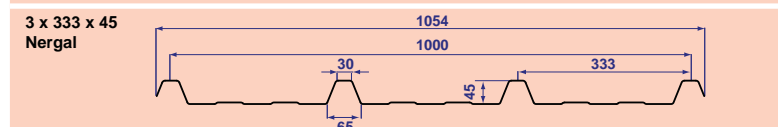
10 %

Roofing
Cladding

2.5
3.4

Roof fastening

Cladding fastening



1.5 m

1.07 m²

10 %

Roofing
Cladding

2.5
3.4

Roof fastening

Cladding fastening

INNOVATION

A PRIORITY FOR **RENOLIT ONDEX**

The innovative strategy of **RENOLIT ONDEX** is based on 2 main themes: a permanent policy to improve existing products and the development of new applications.

To meet our customers' growing demands, our Marketing and Research & Development departments are constantly developing new profiles or colours.

*Diversification is one of the driving forces of innovation at **RENOLIT ONDEX**, but it is our customers, above all, who stimulate our creativity.*

More than 100 new products are launched every year!

SUSTAINABLE DEVELOPMENT

PVC IS A 100% RECYCLABLE AND RECYCLED MATERIAL...

Eager to protect the environment and conserve resources, **RENOLIT ONDEX** recycles all its manufacturing waste internally.

Sheets can be collected at the end of their life and easily recycled in specialist sectors, thereby gaining a new lease of life!



vinyl^{plus}



RENOLIT ONDEX HR sheets application*

QUICK ADVICE FOR A SUCCESSFUL PROJECT!



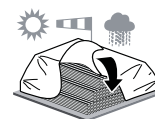
The temperature of the sheet must not exceed recommended temperatures



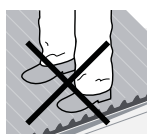
Use the accessories recommended in our installation instructions



Check the altitude of the implementation



Protect the sheets from sun, wind and rain during storage and throughout implementation



Comply with safety regulations.
Do not step directly on the sheets



Check centre distances according to snow & wind loading



Check weather conditions (wind, rain, snow)



Make sure the installation «sky side» is identified

*See installation instructions given in our technical documents and installation leaflets

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Rely on it.

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