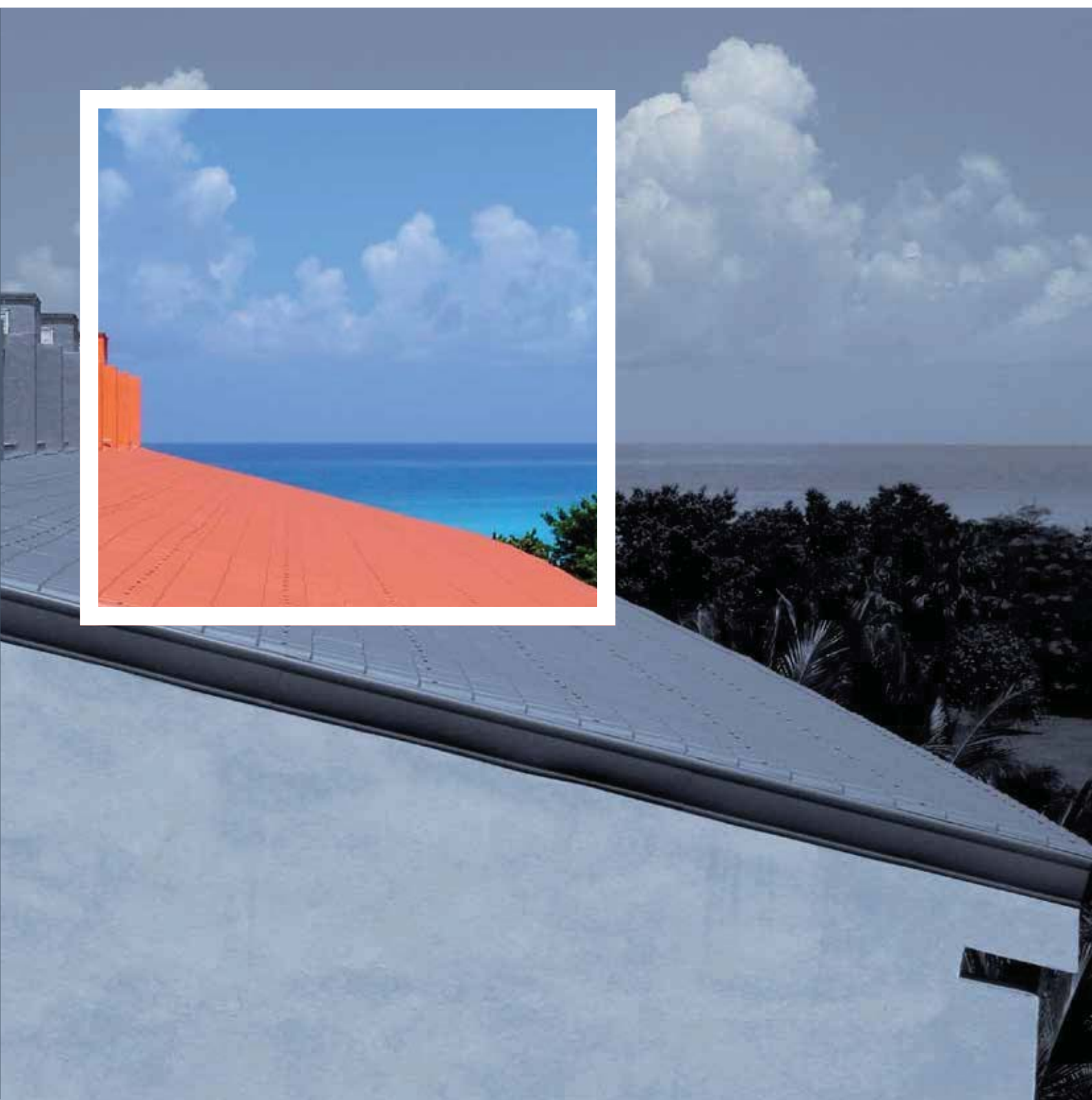




Rely on it.

COMPANY PROFILE

Civil and industrial coverings



RENOLIT Tecno Imac.

We have been manufacturing beautiful, lightweight and durable roof covering solutions and gutter systems for over 30 years.

Thanks to Polimglass®, a patented thermoplastic material and the new composite materials based on it, our sheeting assures exceptional performance in durability, strength and flexibility.

We were the first to produce sheets with a co-extrusion system. We invented and patented the process that allows a final product sheet to be composed of three layers of different material, thus merging their individual characteristics to achieve a composite product with ultimate superior technical performance.

Still today, after more than 30 years of continuous improvements, we pride ourselves on making the best thermoplastic roofing products and rainwater collection and disposal systems.

Milestone

1968

I.M.A.C, which stands for di Industria Meccanica Accessori Coperture (Mechanics, Accessory, Roofing Industry) was founded in Rome in Via Aurelia, a few minutes from the Grande Raccordo Anulare (the main ring road of Rome)

1982

The IMAC patents Polimglass®, the first coextruded thermoplastic material in three layers with exceptional performance

1983

First roofing sheets are manufactured using Polimglass®. Aside from standard corrugated products, the Company created Imacoppo, a thermoformed sheet that recalls the shape of traditional Italian rooftops.



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Our history

RENOLIT Tecno Imac was born in 2018 after the acquisition of Tecno Imac s.p.a. by RENOLIT Ondex s.a.s., a French company leader in the production of covering sheets in Bi-oriented PVC, and part of the RENOLIT Group.

Based in Rome, the company operating since 1968 in the production of synthetic materials (as I.M.A.C.).

Since then, RENOLIT Tecno Imac has constantly been involved in a process of innovating and optimization of the production which has enabled the achievement of exceptional results and thereby putting itself onto the international market as a leader in roofing and walls of synthetic materials.

And this by further developing the Polimglass® patent which is a high performing co-extruded thermoplastic material.

In fact, Tecno Imac produces roofing, walls and gutter systems of the highest quality for the worldwide market in three domains:

- **roofing for the housing and manufacturing industry;**
- **covering systems for wall claddings;**
- **delivering all accessories for rain water through gutters and rain pipes.**

1999

The company is bought by Tecnobay, and a new company called Tecno Imac is created. The Company introduces new Management and quality standards.

2012

Constant research brings to creation of new materials based on Polimglass: H.S.P. ® and Ecotres® are new products with great balance between a minimum co-extrusion thickness and remarkable performance.

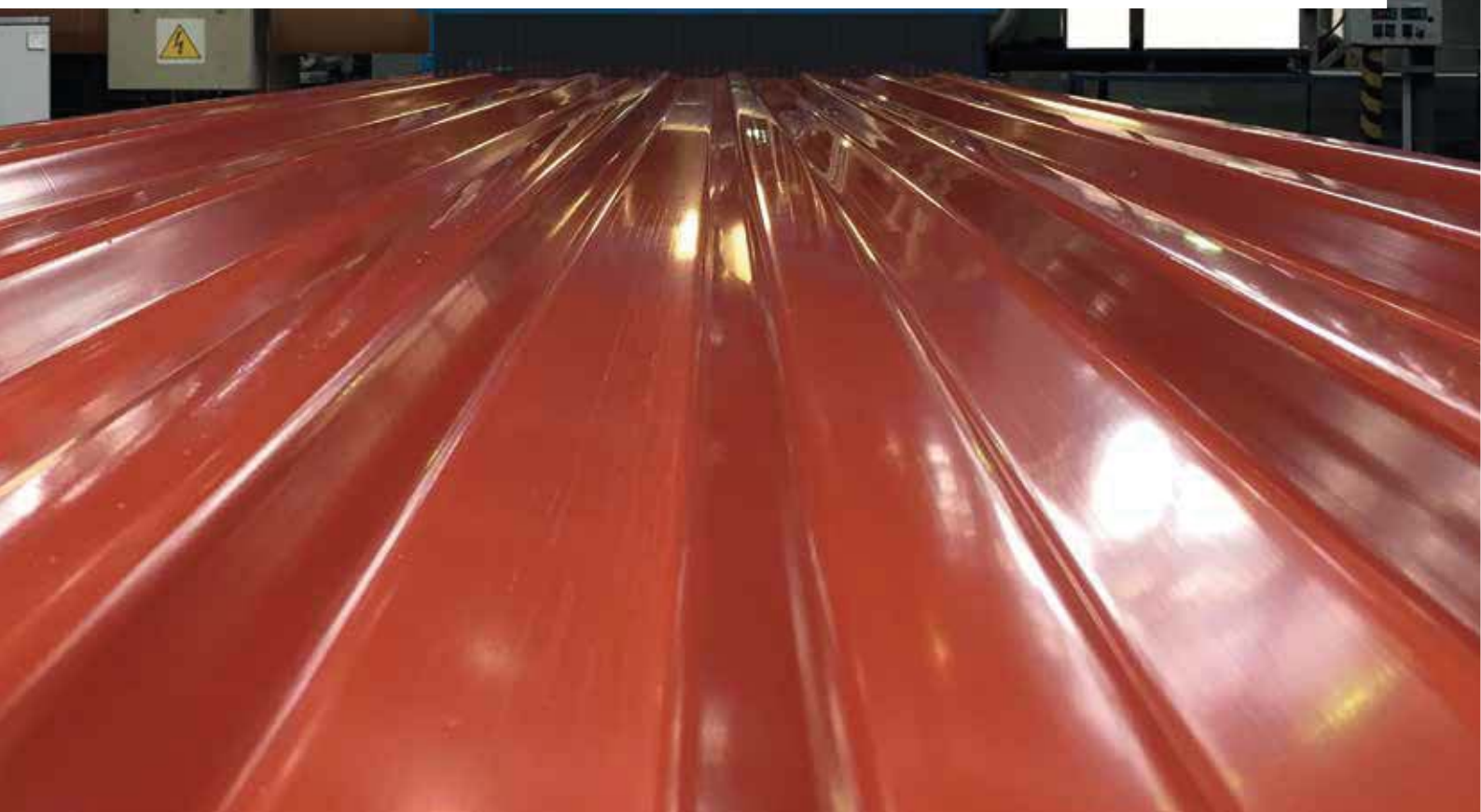
2018

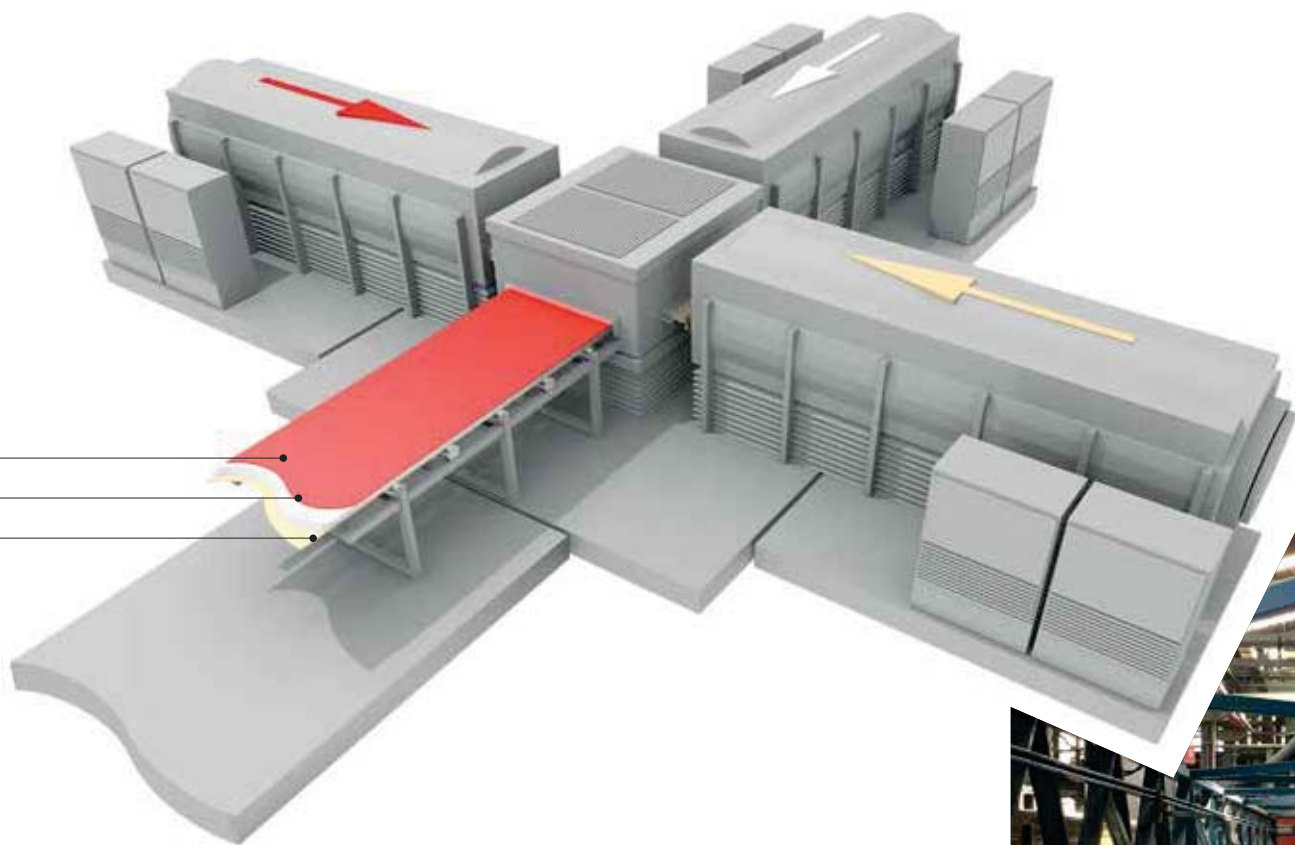
The company, bought by RENOLIT Ondex, and changing his name to RENOLIT Tecno Imac, is now part of the RENOLIT Group .

The technology

Coextrusion, the production technology that makes our sheeting solutions unique

Coextrusion is a manufacturing process based on the deformation of plastic a substrate, involving the simultaneous processing of different components so that they emerge from the production machine in the form of layered bonded sheets that combine the best features of the constituent materials. The RENOLIT Tecno Imac production stations are organized in units of three extrusion machines. In each extrusion machine, the constituent mixture components (resins, plasticizers, stabilizers, pigments etc.) are fed through hoppers into a cylindrical chamber. Here the mixture is heated and compressed with worm screws until it reaches the co-extrusion flat head where the layers created by the individual extruders converge to form a coarse sheet. This is then laminated in a calendaring press and it is passed on for final profile shaping.





All these materials have a common production process that, with different chemical formulations in the various layers, consists in the process of conveying different types of thermoplastic materials prepared in three different extruders into a single extrusion head. The result is a single sheet that is stratified in three different layers, each of which has specific features designed to perform certain functions:

- **top layer:** solid-colored PMMA (Methacrylate), to obtain colors and finishes that are perfect and highly resistant to UV, weather and environmental exposure to chemicals of any kind.
- **middle layer:** mixture of different technopolymers loaded with micronized inert to obtain low thermal expansion, good acoustics and resistance to bending.
- **bottom layer:** thermoplastic compounds for maximum resistance to impact and chemical aggressions from below it.

The result of this particular combination of thermoplastic materials is a roofing or wall sheet that can be used in any type of environment, without having to worry about the effects of any type of acidic vapor, whether industrial or agricultural, or in even the most destructive saline environments.



Polimglass[®] main benefits

Corrosion?

RENOLIT Tecno Imac is the solution.

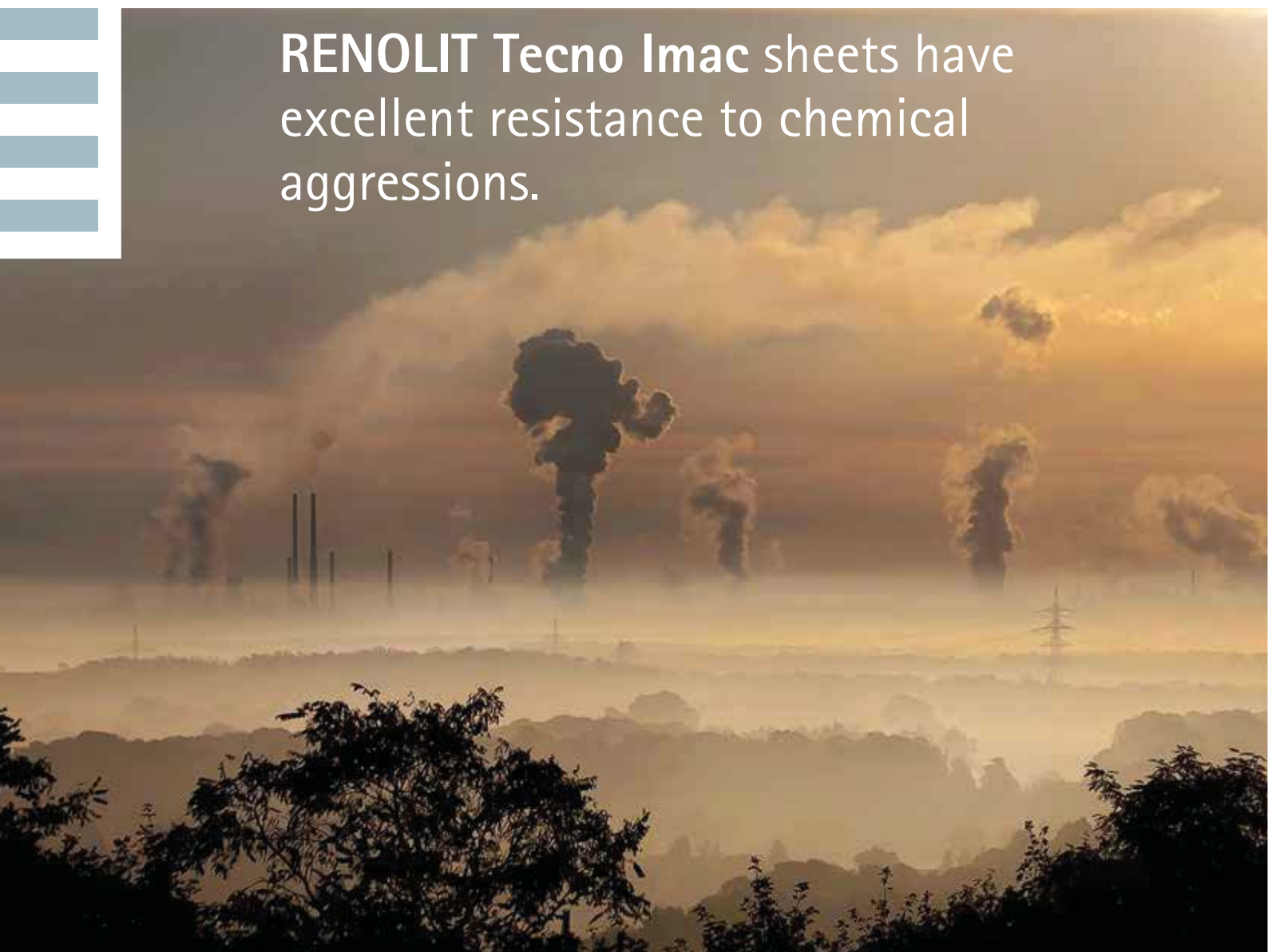
- UV and Weather resistant
- Superlative Chemical resistant
- Self-extinguishing (Class 1)
- Lightweight (from 3,5 to 6 kg/m²)
- 100% Recyclable
- 20 Years warranty
- Noise reduction
- Easy to install
- Walkable during maintenance



Chemical resistance



RENOLIT Tecno Imac sheets have excellent resistance to chemical aggressions.



Chemical resistance of Polimglass® and its materials has been carefully tested and compared with other most common materials for light roofing systems or construction of light industrial walls.

Sulphuric Acid



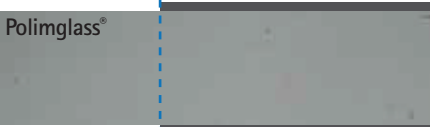
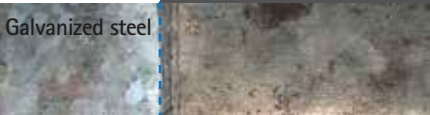
Acid Rains



Natural Sea Salt



OUR PRODUCT

Polimglass®		Polimglass®		Polimglass®	
	Exposed Area		Exposed Area		Exposed Area
Galvanized steel		Galvanized steel		Galvanized steel	
Copper		Copper		Copper	
Aluminium		Aluminium		Aluminium	
Multilayered		Multilayered		Multilayered	



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Chemical resistance

The following tables show Polimglass® resistance (at ambient temperature) to a range of both aggressive and regular chemical factors.

The materials' reaction has been revealed after 30 years of experience in installation and confirmed with specific lab tests.

LOWER LAYER

Product	Concentration	Behaviour
acetaldehyde	40%	R
acetaldehyde	100%	NR
acetic acid (liquid)	60%	R
acetic anhydride	100%	NR
aluminium chloride solution	saturated	R
aluminium sulphate solution	saturated	R
ammonia gas	100%	R
ammonia solution	saturated	R
ammonium fluoride	20%	R
ammonium nitrate solution	saturated	R
anhydrous chloride	100%	R
arsenic acid	80%	R
benzaldehyde	0,10%	LR
benzene	100%	R
benzol	100%	R
boric acid	diluted	R
butadiene	100%	R
butane gas	50%	R
carbon dioxide	100%	R
carbon tetrachloride	100%	LR
carbonic acid	any	R
caustic soda solution	saturated	R
chloromethane	100%	NR
dimethylamine	100%	LR
ferrous chloride solution	saturated	R
fluosilicic acid	32%	R
formaldehyde	40%	R
formic acid	100%	R

Product	Concentration	Behaviour
glycolic acid	30%	R
hydrobromic acid	50%	R
hydrofluoric acid	100%	LR
lead acetate	diluted	R
magnesium chloride solution	saturated	R
monochloroacetic acid	100%	R
nickel sulphate solution	saturated	R
nitric acid	45%	R
oils and fats	all	R
perchloric acid	70%	R
phosphoric acid (water sol.)	above 30%	R
phosphoric anhydride	100%	R
phosphorous pentachloride	100%	NR
potassium chloride solution	saturated	R
potassium hydroxide solution	saturated	R
potassium nitrate solution	saturated	R
potassium persulphate solution	saturated	R
propane	100%	R
sea water	-	R
sodium chlorate solution	saturated	R
sodium chloride solution	saturated	R
sulphur dioxide	100%	R
sulphuric acid	90%	R
sulphurous acid	-	R
urea	10%	R
uric acid	10%	R
zinc chloride solution	saturated	R
zinc sulphate solution	saturated	R

R= Resist perfectly / LR = Limited Resistances / NR = No Resistance

UPPER LAYER

Product	Concentration	Behaviour	Product	Concentration	Behaviour
acetic acid	10%	R	hexane	-	R
ammonia	-	R	hydrochloric acid	40%	R
ammonia (gas)	-	R	hydrofluoric acid	40%	LR
ammonium chloride	-	R	magnesium sulphate	-	R
ammonium phosphate	-	R	methane	-	R
ammonium sulphate	-	R	methyl alcohol	-	NR
barium chloride	-	R	mineral oils	-	R
benzene (without benzol)	-	LR	naphthalene	-	R
benzol	-	NR	nitric acid	20%	LR
boric acid	-	R	phosphoric acid	10%	R
calcium chloride solution	2%	R	potassium carbonate	-	R
carbon monoxide	-	R	potassium carbonate solution	saturated	R
carbon tetrachloride	-	LR	potassium chloride	-	R
caustic soda	any	R	potassium hydroxide	any	R
chloride vapours	-	LR	potassium nitrite	-	R
chlorine water	-	LR	potassium sulphite	-	R
chlorosulphonic acid	-	R	sodium carbonate solution	saturated	LR
chromic acid	40%	R	sodium chlorate	-	R
D.D.T.	-	R	sodium phosphate	-	LR
ethanol	30%	LR	sulphur	-	R
ferric sulphate	-	R	sulphuric acid	40%	R
formaldehyde	-	R	sulphuric acid	80%	LR
formalin	-	R	sulphuric dioxide	-	R
heptane	-	R	zinc chloride	-	R

A full list of tests undertaken is available in our offices. These tests show behavior of Polimglass® under different temperatures, with different concentrations of chemical reagents and include reactions to numerous factors. As the level of influence depends on different factors such as temperature, exposure duration and combination of different aggressive factors, **it is strongly recommended to contact Technical Department of RENOLIT Tecno Imac before any application of Polimglass® sheets in aggressive ambient or in environment with particular climate.**



Industrial applications

Coverings and walls made of Polimglass in aggressive chemical environments and industry

Polimglass® and new materials based on it represent an ideal solution for industrial building coverings and for constructions made in aggressive chemical environments. The resistance of Polimglass® in front of chemical aggression guarantees an extremely longer duration respect to the one possible with alternative light roofing systems (made of metal or simple plastic) and it reduces the necessary maintenances to zero. Therefore, Polimglass® coverings and walls are the best solution for the following:

- Chemical Treatment Plants

- Sea Salt Factories

- Fertilizer Companies

- Metallurgical Industry

- Chemical Industry

- Pharmaceutical Industry

- Oil refinery

- Mines

- Power Plants

- Harbour warehouses





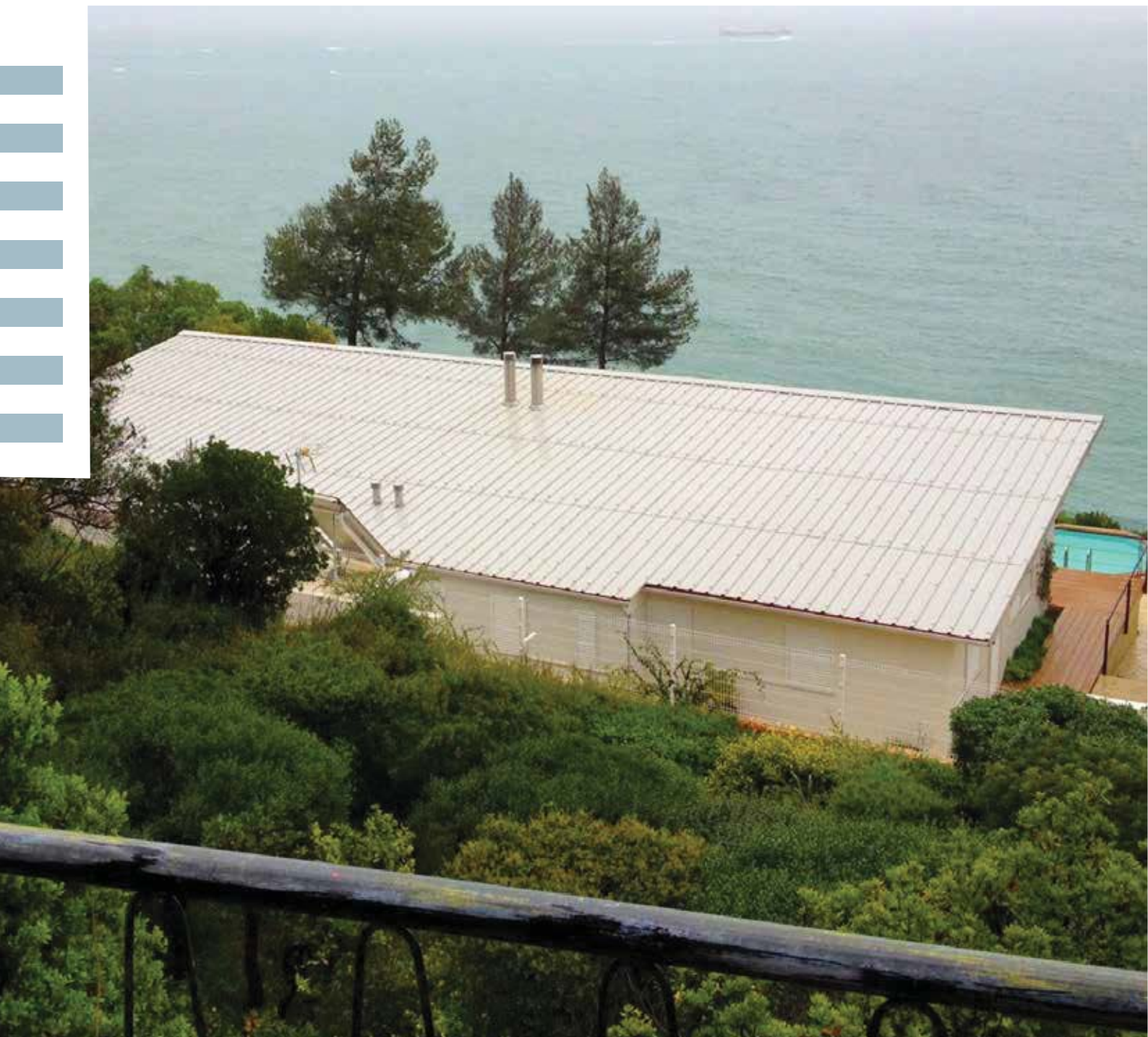
Industrial applications





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Civil applications





Civil applications





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