

Designing transparency

ALVECO 
POLYCARBONATE

Alveco srl was born from the enthusiasm to meet the needs of a wide clientele, attentive to innovations in the field of plastic materials. Since we entered the market in the summer of 2016, we have worked with commitment and flexibility to satisfy the requests of diverse product sectors.

Our passion for excellence has led us to produce modular systems, sheets, and profiles in compact and multi-wall polycarbonate of the highest quality, with a particular focus on the construction sector. Our product range, which you can explore in the following pages, is manufactured using state-of-the-art technologies and with the utmost respect for the environment, demonstrating our commitment to eco-sustainability. We have recently introduced some products named ReMade, which contain a portion of recycled polycarbonate, further confirming our dedication to environmental sustainability.

We are confident that our focus on quality and innovation is what sets us apart. We look forward to collaborating with you to realize even more extraordinary projects!

Certified Company:
UNI EN ISO 9001
UNI EN ISO 14001





ALVECOLAR

MULTIWALL POLYCARBONATE SHEETS

APPLICATIONS

Transparency, Lightness and Thermal Insulation provide the necessary characteristics to the ALVECOLAR product to meet both the technical-application solutions requested and the regulations in force for the design and restoration of civil and industrial buildings:

- High thermal insulation;
- Light management
- Excellent fire behavior;
- Excellent self-weight/mechanical strength ratio;
- Excellent load resistance performance;
- Unchanged physical/mechanical properties over time;

Thanks to these characteristics, the ALVECOLAR SHEETS are the ideal solution for a variety of applications: Doors, windows and shutters, skylights, roofs, coverings, curtain walls, false ceilings and partition walls.

TRANSPARENCY

The physical characteristics of polycarbonate provide to the ALVECOLAR product the ability to convey inside buildings a high percentage of light, which thanks to special pigments can be managed according to design needs.

LIGHTNESS

The low specific weight of polycarbonate makes the ALVECOLAR product very light, minimizing labor costs for installation of the product and enhancing load resistance performance.

THERMAL INSULATION

Multiple-wall drawings and thicknesses that populate the wide range of the ALVECOLAR product combined with the chemical-physical characteristics of polycarbonate minimize thermal exchange, enhancing product performance and meeting the regulations in force in terms of energy savings.

IMPACT RESISTANCE

The mechanical characteristics of polycarbonate provide to the ALVECOLAR product high impact resistance, which is optimized against damages caused by weather agents and accidental impacts, meeting the regulations in force in terms of safety.

FIRE BEHAVIOR

ALVECOLAR is classified EURO Class B-s1,d0.

GUARANTEE OVER TIME

The modern plants used by ALVECO, equipped with the most recent and advanced technology for the manufacturing of alveolar SHEETS allow producing the ALVECOLAR product with UV protection on both sides by applying the UV Absorber, which protects the SHEET from aging caused by UV rays. The UV protection hinders the degradation of the SHEET, preserving the ALVECOLAR product from loss of mechanical characteristics, brightness and transparency. The ALVECOLAR product is guaranteed for a 10-year period.

TECHNICAL CHARACTERISTICS

Reaction to fire	EUROCLASS B s1 d0
Linear expansion	0,065 mm/m°C
Operating temperature	-30°C + 120°C
Vicat (B/50)	150°C

LIGHT TRANSMITTANCE LT (%)

Structure	Thickness	Crystal %	Bronzo %	Opal %
2 W	4	84	65	55
2 W	6	82	62	51
2 W	8	80	62	50
2 W	10	80	60	48
5 W/X	16	65	40	55
5 W/X	20	60	30	40
5 W/X	25	60	28	40
6 W	8	84	60	48
6 W	10	84	54	38
6 W	12	80	50	32
6 W	16	76	42	30
10 W/X	16	55	38	37
10 W/X	20	52	34	34
10 W/X	25	50	32	34
10 W/X	32	48	30	31
10 W/X	40	45	26	28

Section	Thickness	Width	Length	Weight kg/m ²	U thermal W/m ² k
4 / 6 mm 2W 	4 mm	2.100	6.000	0,80	3,90
	6 mm	2.100	6.000	1,30	3,60
8 / 10 mm 2W 	8 mm	980	6.000	1,50	2,90
	10 mm	1.500	6.000	1,50	2,90
	2.100	6.000	1,50	2,90	
16 / 20 / 25 mm 5W 	16 mm	980	6.000	2,50	1,80
	2.100	6.000	2,50	1,80	
	20 mm	980	6.000	3,10	1,60
	1.500	6.000	3,10	1,60	
	2.100	6.000	3,10	1,60	
	25 mm	980	6.000	3,40	1,50
	1.500	6.000	3,40	1,50	
	2.100	6.000	3,40	1,50	
	8 / 10 / 12 / 16 mm 6W 	8 mm	980	6.000	1,50
1.500	6.000	1,50	2,30		
2.100	6.000	1,50	2,30		
10 mm	980	6.000	1,75	2,10	
1.500	6.000	1,75	2,10		
2.100	6.000	1,75	2,10		
12 mm	980	6.000	1,95	2,00	
1.500	6.000	1,95	2,00		
2.100	6.000	1,95	2,00		
16 mm	980	6.000	2,60	1,70	
1.500	6.000	2,60	1,70		
2.100	6.000	2,60	1,70		
16 / 20 / 25 / 32 / 40 mm 10W 	16 mm	2.100	6.000	2,80	1,60
	20 mm	2.100	6.000	3,20	1,40
	25 mm	2.100	6.000	3,40	1,30
	32 mm	2.100	6.000	3,70	1,10
	40 mm	2.100	6.000	4,20	1,00

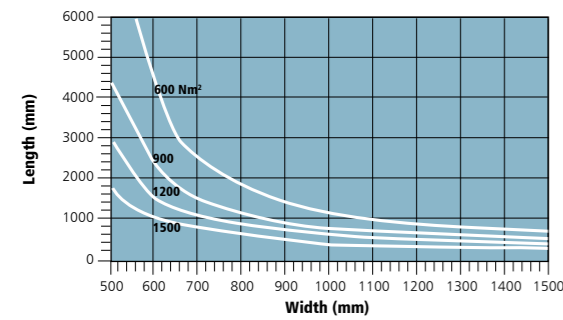
ALVECOLAR LOADING CAPACITY TABLES

SPECIAL SHEETS IN FLAT MULTIWALL POLYCARBONATE

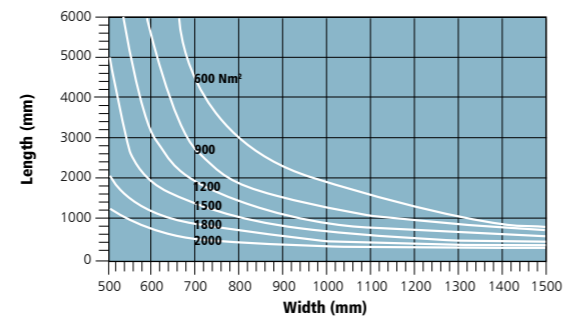
ALVECOLAR CAPACITY

THE TABLES BELOW REPORT THE LOAD VALUES FOR SHEETS ANCHORED ON FOUR SIDES.

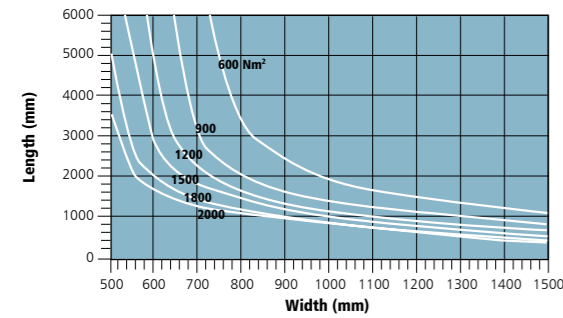
ALVECOLAR 6 mm 2 WALLS



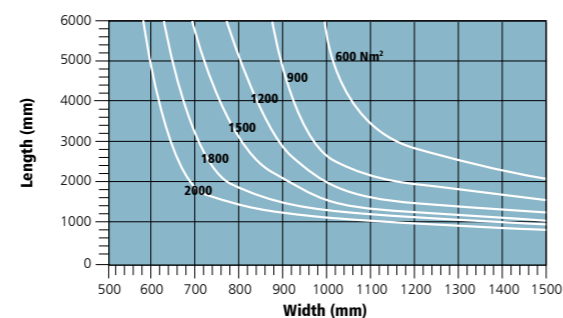
ALVECOLAR 8 mm 2 WALLS



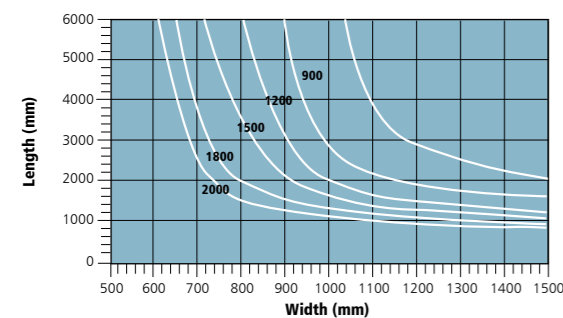
ALVECOLAR 10 mm 2 WALLS



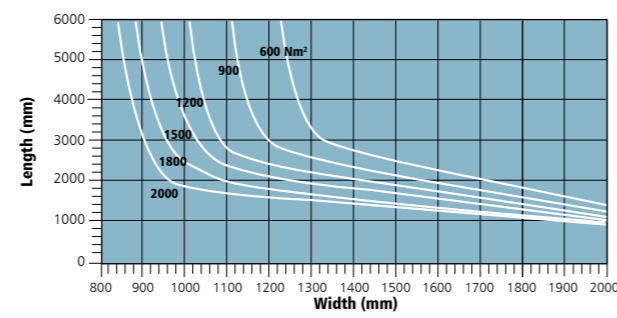
ALVECOLAR 16 mm 5 WALLS X / 10 WALLS X



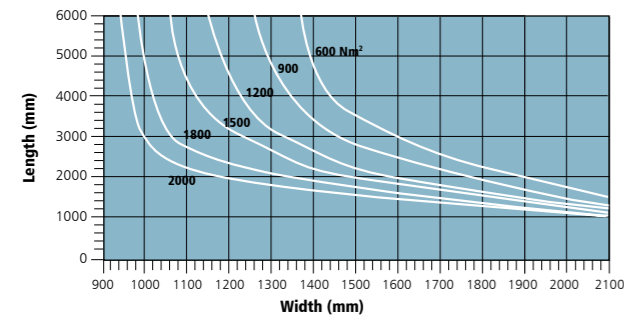
ALVECOLAR 20 mm 5 WALLS X



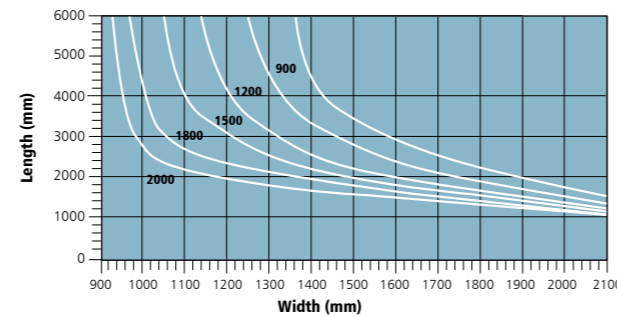
ALVECOLAR 20/25 mm 10 WALLS X



ALVECOLAR 32/35 mm 10 WALLS X



ALVECOLAR 40 mm 10 WALLS X



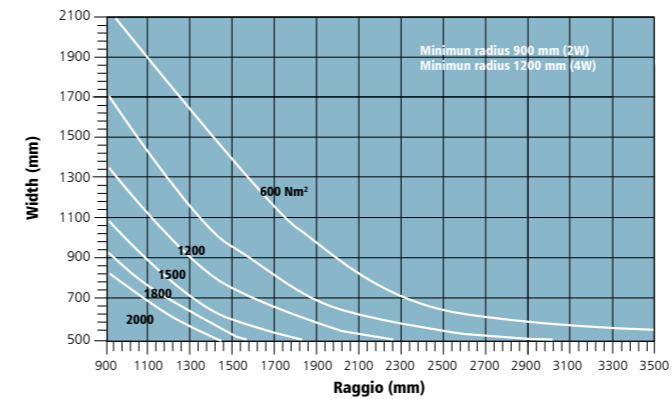
ALVECOLAR

SPECIAL SHEETS IN CURVED MULTIWALL POLYCARBONATE

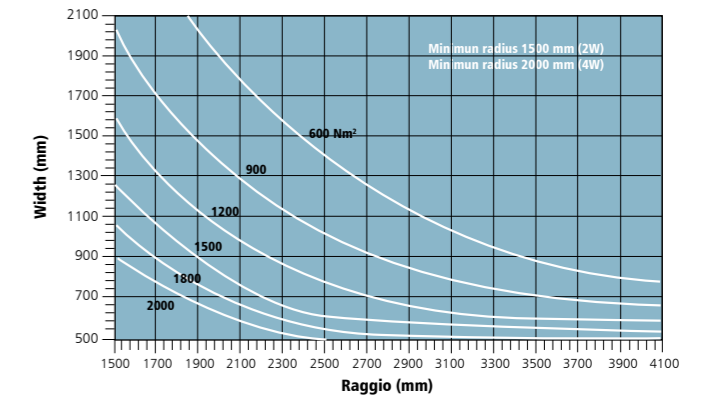
ALVECOLAR CAPACITY APPLICATION CURVE

THE GRAPHS SHOW THE PERMISSIBLE WIDTH OF THE SHEET BASED ON THE LOAD AND BENDING RADIUS

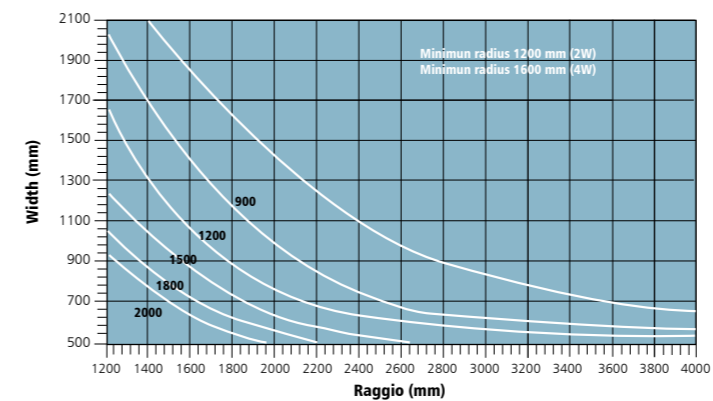
ALVECOLAR 6mm 2 WALLS



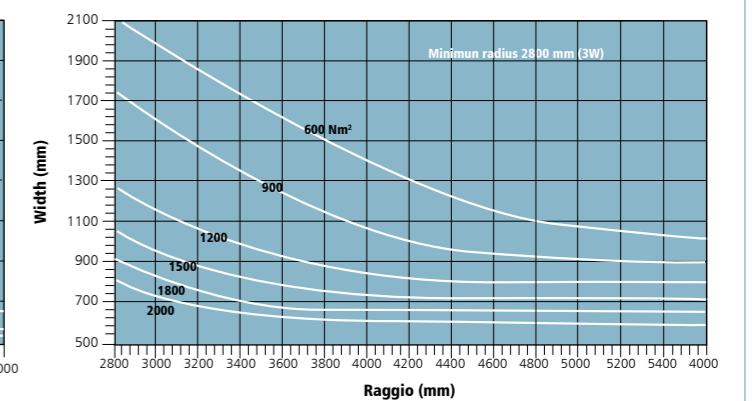
ALVECOLAR 10mm 2 WALLS



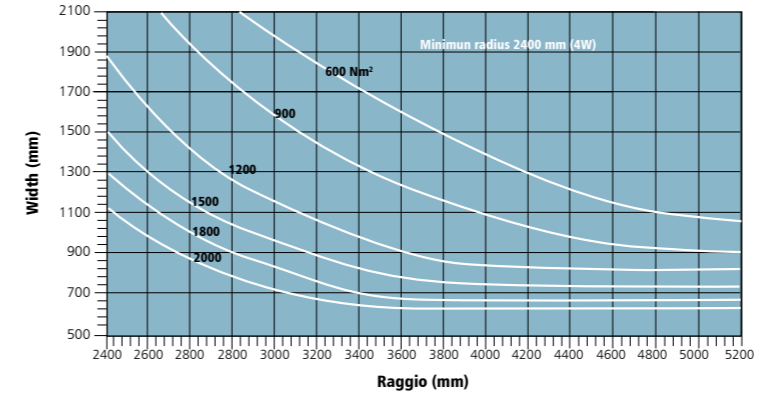
ALVECOLAR 8mm 2 WALLS



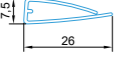
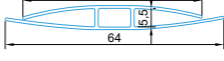
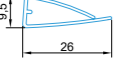

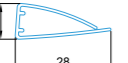
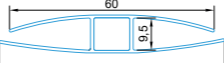

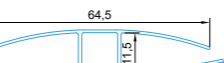
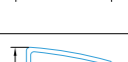
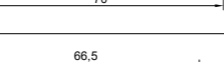
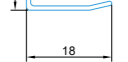
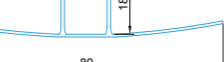

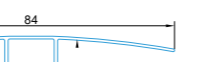
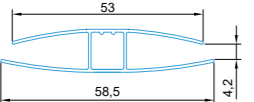
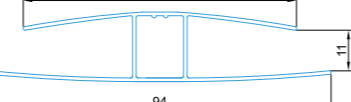
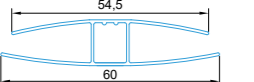
ALVECOLAR 16mm 5 WALLS X



ALVECOLAR 20mm 5 WALLS X



ACCESSORIES

	Profile U4 mm. PC Kristall		Profile H4 mm. PC Kristall
	Profile U6 mm. PC Kristall		Profile H6 mm. PC Kristall
	Profile U8 mm. PC Kristall		Profile H8 mm. versione standard PC Kristall
	Profile U10 mm. PC Kristall		Profile H10 mm. versione standard PC Kristall
	Profile U16 mm. PC Kristall		Profile H16 mm. versione standard PC Kristall
	Profile U20 mm. PC Kristall		Profile H20 mm. PC Kristall
	Profile U25 mm. PC Kristall		Profile H25 mm. PC Kristall
	Profile H8 mm. LEGGERO Light version PC Kristall		Profile H16 mm. LEGGERO Light version PC Kristall
	Profile H10 mm. LEGGERO Light version PC Kristall		



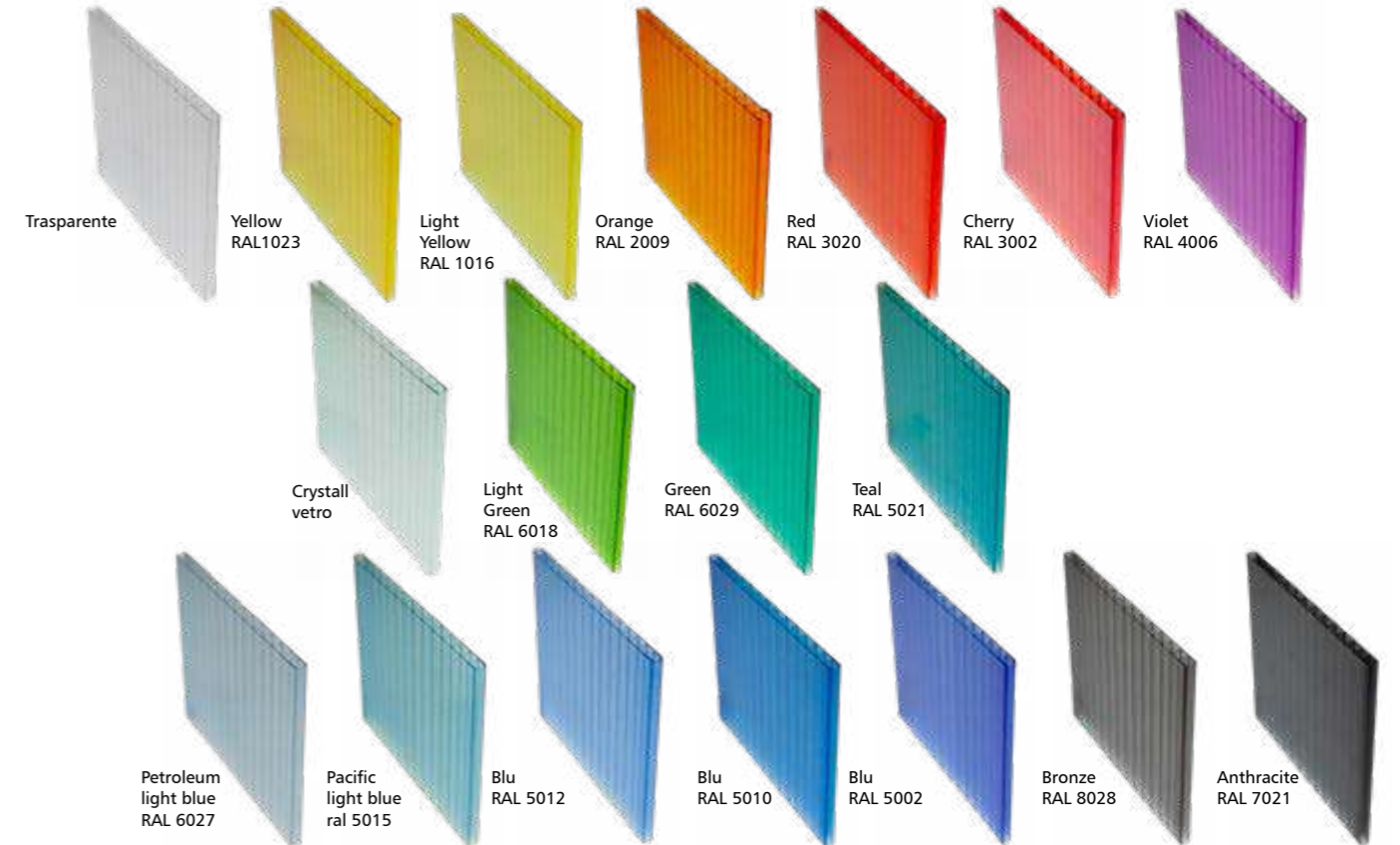
Aluminum H-profile



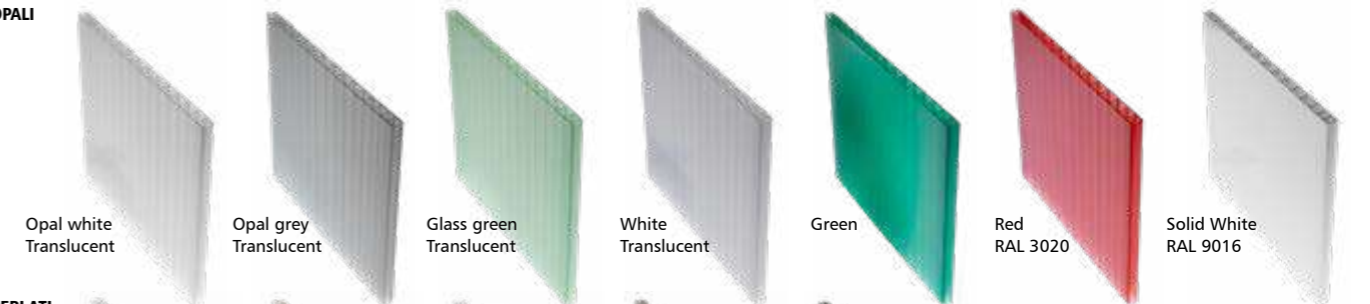
Screw with EPDM gasket, with or without cap
Self-drilling screw for wood, metal or steel with EPDM gasket

COLOURS

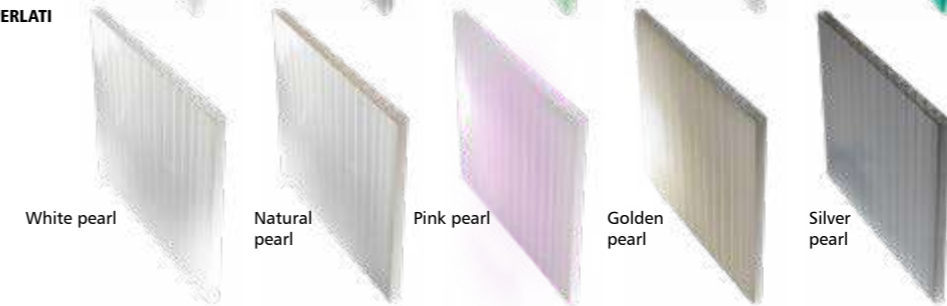
CRISTALLI



OPALI



PERLATI



GENERAL TERMS AND CONDITIONS OF SALE

The **Seller** party is understood as ALVECO SRL, a manufacturer and/or supplier company of the products in question, which will issue an invoice for said products.

The **Buyer** party is understood as the addressee of the invoices related to the products in question.

1 Purpose

1.1 All sales of products and/or accessories ("Products") made by the Seller are subject to and governed by these General Terms and Conditions of Sale, except any special conditions agreed in writing between the Seller and the Buyer. These General Terms and Conditions of Sale shall prevail on any other document, clause, provision (even if not explicitly contested by the seller) contained in forms, quotes, orders of the Buyer including also any general terms of purchase.

1.2 All specifications, drawings, specifications of weight and dimensions and data related to the performance contained in any documentation of the Seller are to be considered indicative.

1.3 The Seller reserves the right to improve and/or modify specifications, drawings and dimensions without notice.

1.4 The information published on the website www.alveco.info represents the most up-to-date version regarding all the technical specifications related to the Products and the related updates, consequently what has been published there in prevails in any case on what has been published on paper.

1.5 These General Terms and Conditions of Sale are applicable to all sales contracts, even future ones, with the Buyer, unless specific written exceptions are agreed between the parties.

2. Order - Acceptance

2.1 All orders must be submitted in writing.

2.2 The Order Confirmation will be processed by the Seller only after the Buyer has sent to the Seller the order confirmation signed for acceptance.

3. Delivery, Shipping and Transportation of Materials

3.1 The delivery terms specified in each order confirmation are indicative and not binding for the Seller who assumes no responsibility for the delay, unless the term is specifically agreed in writing with the Seller. No delay may give rise to claims by the Buyer for compensation of direct or indirect damages.

3.2 If specific terms are agreed in writing as mandatory, any facts that may prevent or delay the production of the Products such as, but not limited to, strikes (including corporate strikes), lockouts, fires, import bans, delayed supply of raw materials or limitations of energy sources and other facts that may prevent or delay the manufacture, are conventionally considered as a force majeure and the Seller shall not be held responsible for the delay in delivery whose terms will be prorogued for the duration of the aforementioned situations. In no case can the orders be canceled by the Buyer.

3.3 In the cases indicated in article 3.2, the Seller must inform the Buyer without delay of the fact occurred, and may delay delivery should the causes of the delay persist. If the causes of the delay last longer than 30 (thirty) days, the Seller shall have the right to withdraw from the contract, without this implying the Buyer's right to compensation for damages directly or indirectly attributable to the delay.

3.4 Unless otherwise stated in the order confirmation, the Products are sold "ex works" by the Seller (loaded on the arriving vehicle). The Products will be delivered in the Seller's standard packaging with labeling and standard marking. The commercial terms of transport will be interpreted according to Incoterms 2010 as published by the International Chamber of Commerce.

3.5 The Products, even if sold ex-works travel always at risk of the Buyer.

3.6 Upon delivery, the Buyer shall be obligated to check the Products. The Buyer undertakes to inspect the Products, in particular the quantity, the dimensions, the integrity of the packaging and the compliance with the order confirmation and if the delivery is free on site delivery it must notify any claim to the carrier at the time of delivery. Otherwise, it is assumed that the delivered products fully respect what has been ordered. Any claim or dispute raised by the Buyer must be followed by sending within eight (8) days of delivery/return of the product a complaint in writing to the Seller.

3.7 Failure to notify in writing the defects/shortcomings within the terms and according to the provisions of these General Terms and Conditions of Sale

entails loss of rights by the Buyer. The Buyer cannot refuse the goods unless they have serious quality defects or shortcomings such as to affect the use of the product.

3.8 The Seller shall not be responsible for defects caused by incorrect transportation of the Products.

3.9 After 8 (eight) days from the issuance of the notice of goods ready, an invoice will be issued, and payment terms will start as stated in the order confirmation.

4. Packaging and Protection

4.1 All materials are supplied with standard packaging. Any specific packaging must be requested at the time of order, specified in the Order Confirmation and will be charged on the invoice.

4.2 The Seller is held harmless from any liability in the event that the Buyer does not strictly follow the instructions of the Seller for storage and maintenance and/or those published on the website www.alveco.info

5. Tolerances

5.1 The Buyer accepts the tolerances shown in the Seller's catalogs and/or technical sheets delivered to the Buyer or published in the catalogs and/or on the website: www.alveco.info consequently no defect or fault can be claimed against the Seller if within said tolerances.

6. Warranty

6.1 The Seller guarantees that the Products sold match the technical specifications and/or technical sheets delivered to the Buyer and/or published in the catalogs and/or on the website: www.alveco.info and guarantees compliance with EU legislation where applicable as well as the absence of material and workmanship defects on the Products. Therefore, the Seller does not provide guarantees regarding the conformity of the products with the requirements prescribed by regulations other than Italian and/or European ones. The Seller does not guarantee in any way conformity of the products to standards, technical standards or regulatory provisions other than those specified in the product data sheet. Therefore, it will be the sole responsibility of the Buyer to verify compliance of the products with the regulations and technical requirements of the countries in which it intends to use the products.

6.2 With regard to the technical instructions and updates as published on the website, what has been published on paper shall prevail.

6.3 The above warranty is valid for twelve months from the delivery of the products. Different warranty periods and warranty conditions must be specified in writing in the Order Confirmation.

6.4 The Products must be stored, handled and maintained in full respect of the instructions of the Seller's technical documentation, delivered and/or published in the catalogs or on the website: www.alveco.info. Therefore, the warranty shall be void if the products are installed in a non-compliant manner with the above instructions or installation diagrams and if they do not comply with the technical data sheets (latest edition) delivered and/or published in the catalogs and/or on the website.

6.5 Any claims concerning apparent defects of the Products must be reported in writing (by registered letter with return receipt or telegram, or certified email address) to the Seller within 8 (eight) days of delivery of the products, be it understood that the Buyer's warranty shall be void after this deadline has elapsed concerning defects and/or poor quality and/or non-compliance with the products sold. Any hidden defects, not detectable upon delivery of the Products, must be reported in writing to the Seller (by registered mail with return receipt or telegram, or certified email address advanced by e-mail/fax) within eight days of discovery and in any case within the term indicated in Article 6.3.

6.6 It is understood that any claims shall not give the Buyer the right to suspend

or in any case delay the payments of the Products subject to dispute or those related to other supplies.

6.7 Claims must be accompanied by explanations to allow the Seller to perform prompt and complete verification. The Products subject matter of the claim must be made available to the Seller, in the state in which they were delivered, in compliance with the "rules on transportation, handling and storage" as published in the catalogs and/or on the website: www.alveco.info and any other instructions provided by the Seller in writing.

6.8 The Seller in the case of defects, lack of quality, non-compliance of the product will be required to repair or replace the individual defective Product with replacement made in the contractually agreed location specified in the Order Confirmation or to compensate the Buyer within the limits of the amount agreed in the Order Confirmation for the individual defective product. It is understood that the aforementioned warranty (consisting of the obligation to repair or replace the individual Product or reimbursement within the limits of the agreed price for the defective Product) is in lieu and substitution of any other guarantee by law and excludes any other responsibility of the Seller (both contractual and extra contractual) however originated from the Products supplied (for example compensation for direct and/or indirect damages, loss of earnings, recalls etc.)

6.9 The Buyer's right to terminate the contract as a result of any defects in the Products is excluded.

6.10 In the case of supply in partial deliveries, any claims, even if timely, do not exempt the Buyer from the obligation to pick up and pay the remaining quantity of products ordered.

6.11 The Seller's warranty does not extend to the repaired and/or replaced parts or to the products supplied as a replacement.

6.12 The Seller's warrants the absence of defects in material and craftsmanship and that the Products are within the tolerances specified in art. 5 consequently the Seller does not guarantee any aesthetic result originating from the laying of the Products and the Seller cannot be charged in any case any differences in installation, interlocking, alignment between the Products.

6.13 The Buyer must comply with the Seller's instructions regarding storage, handling, assembly and maintenance of the Product as published in the catalogs and/or on the website www.alveco.info. The calculation data, table values, bills of material, drawings, and any other document provided by the Seller, even as mere advice, shall be considered as simple general elements and do not give rise to any liability of the Seller, the design, project management and testing remaining under the exclusive competence, responsibility and care of the Buyer.

6.14 Any warranty referred to in this art. 6 is no longer valid and becomes void if:

- The Product is used in a manner that does not comply with its performance characteristics as set out in the technical data sheets published in the catalogs and/or on the website.
- Failure by the Buyer to comply with the assembly, storage, handling and maintenance instructions as published in the catalogs and/or on the www.alveco.info website. Under no circumstance the products that are defective shall be used in any way by the Buyer or the Buyer forfeits all warranty rights.
- Installation carried out by adopting systems, accessories not in compliance with the Seller's technical sheets attached to the catalogs and/or published on the site or using accessories not supplied and/or not expressly approved by the Seller;
- Interventions of any kind performed by third parties other than the Seller, on the Product after delivery;
- Use and/or installation of the alleged defective Product by the Buyer, following the claim and/or dispute;
- Faults and defects not confirmed as such according to the state of the art and science at the time of placing the Products on the market.

6.15 Special warranties and/or certifications may be issued only if requested by the Buyer when the order is placed and if specifically accepted in the Seller's order confirmation.

6.16 The Products only perform the function of roof/coverings and/or improvement of energy level of the building, and unless otherwise expressly agreed in writing with the Seller, do not contribute in any way to the overall or partial stability of the structure of the building. Therefore, they are not suitable for supporting vertical - horizontal loads or permanent static loads (excluding their own weight). The Buyer must assess and size the existing supporting

structure, in order to ascertain its suitability and hold harmless the Seller from any and all liability.

6.17 The Seller reserves the right to make the necessary technical changes or improvements to its production.

6.18 The Products subject to dispute must be kept available to the Seller to allow a joint and out-of-court assessment, at no charge from the Buyer to the Seller.

7. Payments

Every delivery will be invoiced.

7.1 The methods of payment are those specified in the order confirmation. All Payments must be made to the Seller's account. All payments made before delivery or before the invoice deadline are considered an advance on the final price, and remain acquired by the Vendor regardless of the outcome of the order.

7.2 The collection by the Seller of amounts paid upon ordering does not constitute acceptance of the same. If the Seller does not accept the order, for reasons not attributable to the Buyer, the Seller shall return the amounts collected, without interest.

7.3 In the event of non-fulfillment by the Buyer and consequent termination of the contract, the amounts paid in advance shall be retained by the Seller as a penalty without prejudice to the right to compensation for greater damages;

7.4 In the case of late payments, the Buyer shall pay, in accordance with Legislative Decree 231/02, interest for late payment, in addition to the compensation for costs

7.5 If the payment of the products is planned through bills of exchange or securities (checks, bills of exchange at the official reference rate plus seven points, starting from the deadline of the agreed term, etc.), these must reach the Seller's office before or simultaneously with the pick up of the Products.

7.6 In the case of payment in installments, in the event of non-payment on the expected deadline of only a portion of the price, the Buyer shall lose the benefit of the payment extension ("benefit of the term") and the Seller may request immediate payment of all the amount due in a single installment.

The statement sent by the Seller is understood as accepted by the Buyer, if it has not been challenged within 15 (fifteen) days of receipt.

8. Contract Withdrawal

8.1 The Seller reserves the right to withdraw from the contract without any penalty if there are facts or circumstances that alter the stability of the markets, the value of money, the conditions of the companies producing the raw material and the conditions of supply. The Seller will also have the right to withdraw from the contract without any penalty, should it become aware of the existence of protests, securities, as well as the start of court proceedings, bankruptcy proceedings, including out of court proceedings against the Buyer.

9. Confidentiality - Intellectual Property Rights

9.1 The Buyer may in no case disclose or transfer to third parties any confidential information, including commercial or other information owned by the Seller or under the control of the Seller, without the Seller's prior written consent.

9.2 All patents, copyrights, trademarks and/or any other intellectual property and/or confidential information regarding the Product shall remain the property of the Seller.

10. Applicable Law

10.1 These "General Terms and Conditions of Sale", as well as all sales contracts governed by them are governed by Italian law.

11. Court of Jurisdiction

11.1 Any dispute deriving from the interpretation, application, execution, termination of the contract of sale and/or of these "General Terms and Conditions of Sale" or in any case related to it, is subject to Italian jurisdiction and shall be exclusively under the jurisdiction of the Court of Como, also in the case of connection of lawsuits.

12. Data Processing

The Buyer states to have received the information note on the processing of personal data pursuant to article 13 of the Law Decree 196/2003

Sales Office

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