

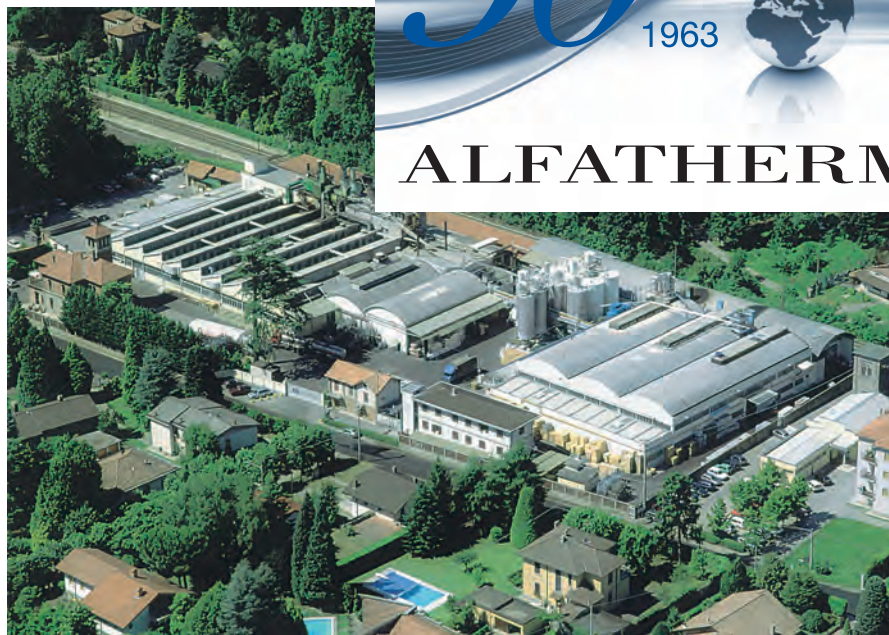
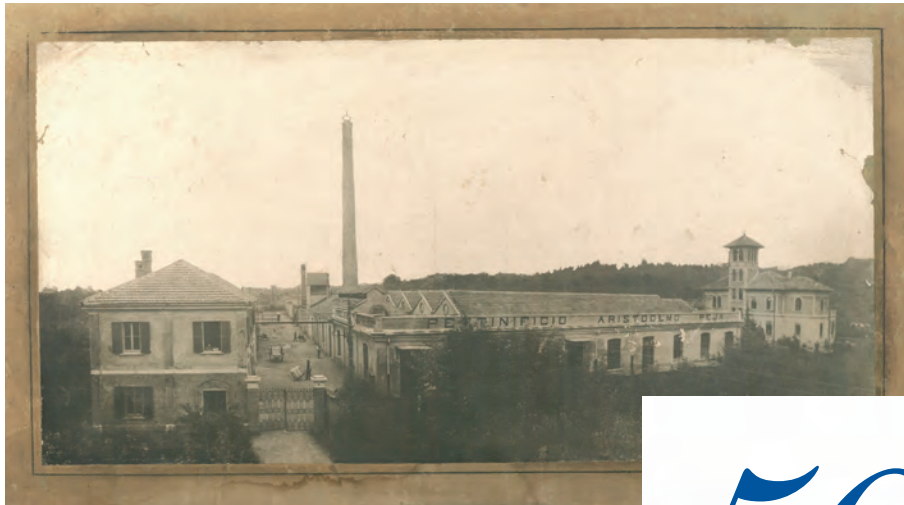


# ALFATHERM



**Outdoor film for  
WINDOW and  
SECURITY DOOR  
decoration**





## **ALFATHERM S.p.A.**

**Alfatherm s.p.a** is an Italian company and is an European leader in rigid, semirigid and plasticized PVC foils.

It was founded in 1963 in Venegono Superiore (Va) and has 3 factories in Varese province with a 40,000 tons calandered film capacity per year.

Thanks to a well-organised sales network, 60% of the sales are performed overseas.

Alfatherm foils are used in a wide range of applications: furniture, food packaging, stationery, shrink labels (sleeves), wine cups, adhesive labels.

Advertising printed foils and adhesive tapes.

Alfatherm is ISO9001 certified and has the BRC certification for the food packaging production.



The new European Union (EU) chemical regulation, REACH (Registration, Evaluation, Authorization and Restriction of Chemicals), entered into force on 1st June 2007.

REACH requires Alfatherm S.p.A. to provide customers with sufficient information if Substances of Very High Concern (SVHC) of candidate list are contained in our products in a concentration above 0.1% weight by weight (w/w).

This certifies that below mentioned substances are not used in the manufacturing process by intention.

We hereby certify that above grade does not contain below mentioned substances.

#### NOT USED AND NOT CONTAIN THESE SUBSTANCES

The substances which ECHA added on the Candidate list of Substances of very high concern (SVHC) for authorization (Based on ECHA/PR/08/38, ECHA/PR/10/01, ECHA/PR/10/05, ECHA/PR/10/12).

#### Fire-fighting measures

##### Suitable extinguishing media:

water, foam, CO<sub>2</sub>, dry extinguishing agents

##### Extinguishing media unsuitable for safety reasons:

None

##### Special hazards from products of combustion or gases:

Burning can produce vapors of hydrochloric acid and carbon monoxide

##### Special protective equipment for fire fighting:

B2/E2/P3 type masks according to DIN 3183, DIN 3181, UNI 7246, UNI 8962, UNI 8963

#### Handling and storage

##### Handling:

in case of heat treatment, arrange for adequate ventilation and vapors suction

##### Storage:

temperature < 25° C; relative humidity < 70%;  
avoid exposure to direct sunlight, store the product in its original packaging

##### Use:

Store the material at a temperature  $\geq 20^{\circ}$  C for at least 48 h before use

#### Disposal considerations Advice

Dispose of waste through authorized operators and always comply with national and regional regulations.

Reference standards:

Italy: Consolidated Environmental (TUA) D.Lgs. 152/2006 - 03/04/2006 and s.m.i.  
Europe: European Directives 91/156/CE e 2008/98/CE relating to waste (implemented in Italy by TUA) 94/62/CEE and s.m.i., on packaging and packaging waste (implemented in Italy by TUA).

If not polluted and no further manipulations, waste are considered "Special non-hazardous."

The above safety measures are given based on the present state of our knowledge of this product at the time of publication.  
No warranty given on the quality of the product.



**REDUCE HEAT BUILD UP FOIL**

Alfaprofile foils are manufactured using special state of the art pigments to enhance profile life through reduce temperature build up. New generation IR reflectant pigments, while showing incredible colour stability, reflects sun IR wavelength rays, reducing surface temperature of profile, helping to prevent degradation or delamination of the window.

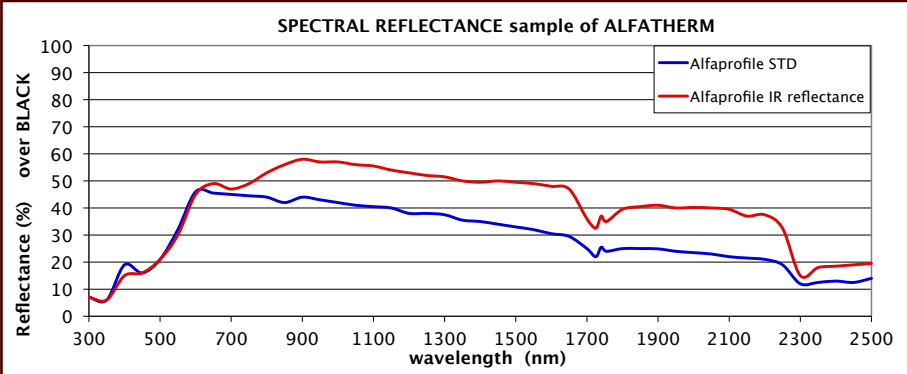
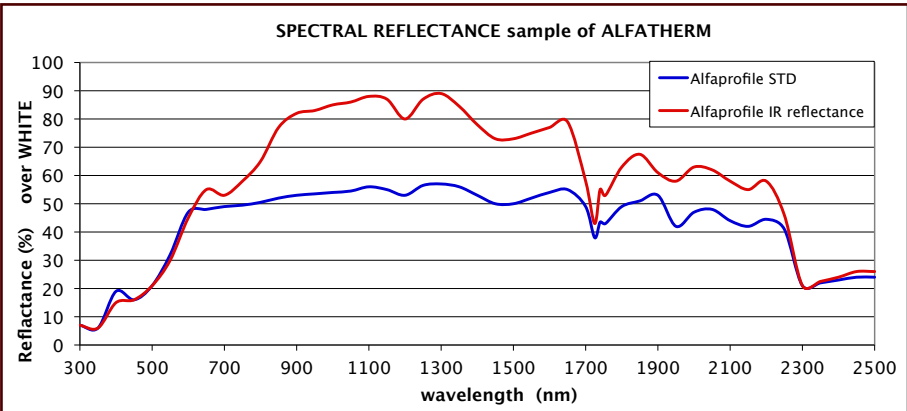
**REDUCED TEMPERATURE PROFILE**

Test or Measurement:	<b>Total Solar Reflectance</b>
Instrument:	<b>Device and Services, Solar Spectrum Reflectometer, Model SSR-ER</b>
Test Method Reference:	<b>SCTM 340</b>
ASTM Reference:	<b>C1549 and E903-9</b>

**TEST RESULTS**

% TSR:	<b>As % of the sun's rays reflected on a black and white</b>
HBU:	<b>Maximum temperature reached</b>

Sample	% TSR	
	Black	White
A M 746 STD pigments	36,8	43,9
B M 746 cool pigments	44,0	57,6
Alfaprofile Rovere Dorato STD pigments	33,8	49,7
Rovere Dorato cool pigments	37,8	47,7
Rovere Dorato enhanced cool pigments	38,1	49,5



TECHNICAL DATA SHEET				
Product: ALFAPROFILE				
TECHNICAL DATA				
Article:	Two-layer film: a semirigid PVC film overlapped with an acrylic film			
Application:	Lamination onto window profiles			
Thickness:	200 µm	± 7%	Method ISO 4591	
Thickness of acrylic film:	± 50 µm			
Properties	Value	Unit	Method	Note
Dimensional stability (10 minutes at 60 °C)	< 2,5	%	ISO 11551	
Tensile stress at break	> 20	MPa	ISO 527-2	
Elongation at break	> 80	%	ISO 527-2	
Abrasion resistance	grade 5		ISO 105-A12	
Embossing stability (10 minutes at 80 °C)	no changes		ISO 11551	
Tear resistance	> 4	N/mm	ISO 1583-1	
Weatherability	colour change after 200h of irradiation (RAL-GZ 715/1 - Part 7) the colour change has to be 5-4 according to ISO 105-A03 gray scale			
Humidity, heat and cold resistance:	After 14 cycles, no visible defects			
<b>Notes</b>				
Whitening:	Some whitening of acrylic film is possible in sharply cold bending			
Cleaning agents:	Alfaprofile resists to the normal house cleaning agents. Strongly recommended not to use organic solvents or preparations or mixtures containing organic solvents. A list of recommended cleaning agents could be supplied on request.			






**TYPICAL PALLET PACKING**

N° of rolls per pallet: 6 rolls


**TYPICAL CONTAINER LOAD**


**Container 20' box**  
**N° of pallets per container: 22 pallets**



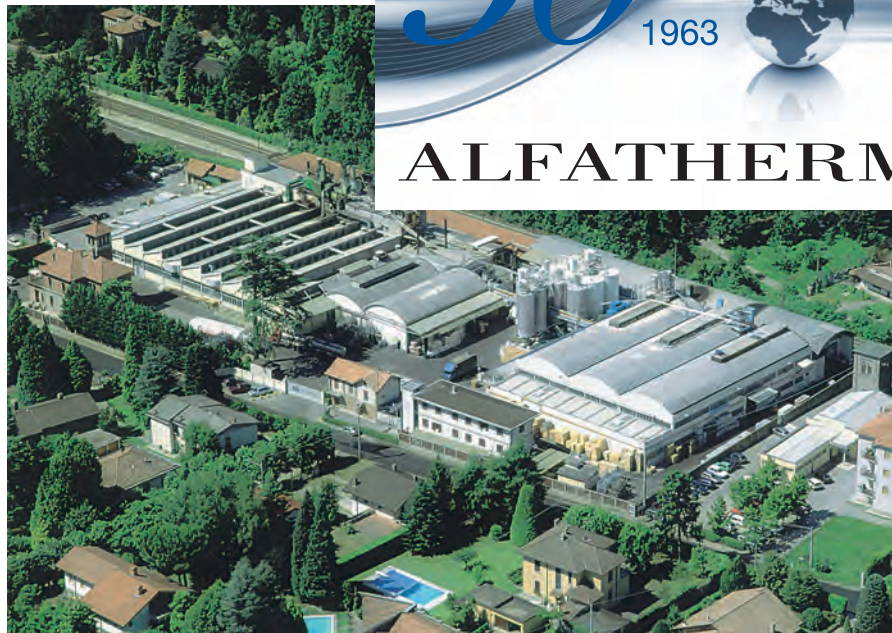
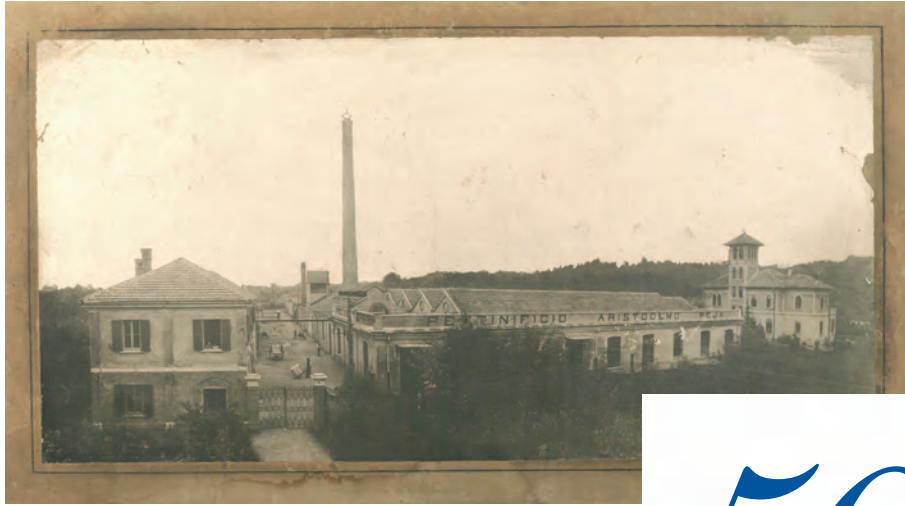
**Container 40' box**  
**N° of pallets per container: 46 pallets**

**TYPICAL ROLL DETAILS**

Thickness:	<b>200 Em</b>	Lmt per roll:	<b>500</b>	Diameter of roll:	<b>370 mm</b>
Weight per sqmt:	<b>210 gr ± 10%</b>	Weight per roll:	<b>73 Kg</b>	Height of internal tube:	<b>655 mm</b>
Sqmt per roll:	<b>320</b>	Width of roll:	<b>640 mm</b>	Core of internal tube:	<b>76 mm</b>

**TYPICAL PACKAGING DETAILS**

Size:	<b>length 123 cm; width 82 cm; height 95 cm</b>
Gross weight:	<b>472 Kg</b>



## **ALFATHERM S.p.A.**

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