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## Alphatex in a few words...

*The Alphatex brand was created in August 2003 by the Multimailles Group, a netting manufacturer. Now a key actor, Alphatex is a benchmark in the European netting sector. Human relations and our customers' needs are at the heart of our commercial policy.*

**Alphatex** grew from over 20 years' expertise in manufacturing and importing netting and extensive sales experience in the construction sector.

**Alphatex** consolidates its position as the French and European market leader by adapting and developing its ranges according to changes in the various markets. Alphatex exports its products to 3 of the 5 continents and supports its customers in many countries.

**Alphatex** chose to prioritise human relations within its organisation and in its exchanges with its customers. The "special partnership" forged with our customers improves cooperation during major projects.

The sales team is made up of pairs of business development officers and their sales assistants who work together to serve you.

Each business development officer is also market manager for a given sector (Construction, Horticulture, Sport, etc.), creating a dynamic between sales and marketing watch.

In addition to its sales department, 5 major components help Alphatex to meet the needs of its customers:

We import our netting from partner suppliers who we train to manufacture according to our technical criteria.

We support their development by investing in their means of production. This is made possible by our regular presence in their factories.

**2/ Europe's biggest permanent stock of nets**, with 1,200 to 1,500 tonnes of finished and/or semi-finished products, corresponding to approximately 25 million m<sup>2</sup>, with 3 storage platforms.

### 3/ A wide and comprehensive range

Each activity requires different types of netting (mesh, micro-mesh), with specific thread diameters, weights, dimensions, colours and finishes.

### 4/ Assembly

An assembly service enables us to quickly respond to requests for custom netting.

### 5/ Our pricing policy

We manage permanent risks related to the constraints of petroleum-based plastic materials, subject to the fluctuations of the global oil market and exchange rates (dollar/euros).

## Alphatex's advantages

- Standard product orders made before 12 noon are handled on the same day.
- We are open year round, 52 weeks per year.

### 1/ Supply management







THERMO-RETRACTABLE



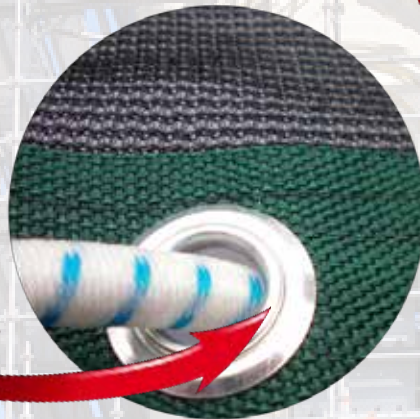
PROTECTION DE FAÇADE



HORTICULTURE



IMPRESSION



ENVIRONNEMENT



VOLIERE



PICS - ANTI OISEAUX



SPORT



ESPACE VERT



Blue film - Specific project  
Special request

Shrink wrap film  
over a tubular frame



Shrink wrap film  
used on scaffolding



Alphasol film - Ground protection





# Icons

*We created this catalogue as a guide to help you choose the right protection (floor protection film, tarpaulin, shrink wrap film, etc.). Each product responds to technical characteristics that we have represented using the following icons.*



## Material

High-density polyethylene  
Recycled high-density polyethylene



## Windbreak \*

Percentage of wind protection provided by the netting or tarpaulin



## UV treatment \*

The netting's resistance to UV radiation in kLy



## The product's weight

Weight in  $g/m^2$



## The product's thickness

Thickness in  $\mu$



## Dart test

Impact resistance of the plastic film



Flammability rating:  
non-flammable materials



Flammability rating:  
non-combustible materials



non classé au feu

Easily flammable materials



DIN 4102-B1

European flammability rating:  
difficult to ignite materials





## History and manufacture of shrink wrap film

# Its history

Shrink wrap films originate in shipyards. Huge boats under maintenance in dry dock are kept in temporary buildings made from impressive scaffolding or arched structures in PE or PVC pipes (smaller boats) covered in shrink wrap film.

The film is installed using a full range of accessories and heated using a heat gun. When heated, the film shrinks and tightens, the strips fuse together to form a solid barrier, creating an entirely closed environment, protected from water, air and dust.

The idea has been adopted in construction for asbestos removal work and the nuclear industry, as shrink wrap film and its many accessories ensure that worksites are totally contained and perfectly sealed.

Further applications are appearing, such as repair work on civil engineering structures (SNCF bridges) over rivers, preventing any risk of pollution. Protecting exterior renovation worksites against freezing and water helps prevent delays due to bad winter weather. Last but not least, protecting inside areas against dust, especially in public buildings, allows work to be carried out alongside usual business.

Shrink wrap film also offers many other possible uses such as shrink-wrapping boats, packing materials or machine-tools that are exported, winterising...





# Its manufacture

## ➤ Extrusion

Blown film extrusion is a commonly used process for manufacturing plastic film.

It involves changing polyethylene granules into a film.

These polyethylene granules are heated to a temperature of around 200°C, melted to form a paste, mixed in an extruder screw and transported to an annular die.



## ➤ Blowing

A tube is formed that, after inflation, becomes a cylindrical bubble.

The bubble is drawn upwards by rollers as high as 25 m.

The bubble is flattened by compression between 2 cooling rolls.

Once the blown tubing has cooled it is cut laterally and then rolled into a spool.

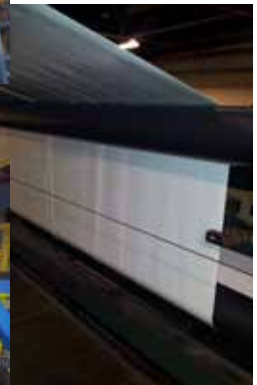
The thickness of the blown tubing depends on the rotation speed of the extrusion screw and the drawing rollers. The size of the die is very important to obtain bi-oriented shrink wrap films up to 14 m wide.



## ➤ Folding

The first folds are made following a triangulated pattern.

The plastic is folded into 4, or even 8 (the folds are always staggered to avoid weakening).



## ➤ Marking

The printer marks the film to guarantee its traceability (production number and logo, etc.)



## ➤ Packaging

Automatic palletisation

The bags are hermetically heat-sealed shut



# Important information



## What is the shrink wrap film made from?

The shrink wrap film is made from a specific mixture of different grades of low density polyethylene, providing a film with excellent mechanical properties and good elasticity.

The film is also stabilised against thermal degradation and light by adding antioxidant and anti-UV additives.

The formula can also include flame retardant additives, providing fire-rated films (French M1 and European rating).

## How much does the shrink wrap film weigh?

The thickness of the shrink wrap film is measured in microns ( $\mu$ ).

M4 film: the low density PE made from virgin resin is 0.92 - 0.925

We add several additives (antioxidants, UV, etc.) to this resin

as well as pigments (titanium oxide, etc.),

giving a final density of around 0.94 - 0.96 depending on the type of additives used.



E.g. on average, M4 film that is 180  $\mu$  thick will weigh 171 g/m<sup>2</sup> (180/0.95)

If you buy a 4x70 m roll of 180  $\mu$  film, you can check the thickness of your film yourself:  $4 \times 70 \text{ m} + 280 \text{ m}^2 \times 0.171 \text{ g} = 47.90 \text{ kg} + \text{the weight of your spool}.$

M1 film: to obtain fire proof film, we add fire retardant additives.

These fire retardant additives are very dense and costly.

Because of this, they make the product weigh more per m<sup>2</sup> for the same thickness.

Film rated M1 has a density of 1.07.

Film rated M1 has a density of 1.05.

E.g. On average, M1 film that is 250  $\mu$  thick will weigh 267.5 g/m<sup>2</sup> (250/1.07)

If you buy a 10x25 m roll of 250  $\mu$  film, you can check the thickness of your film yourself.

$10 \times 25 \text{ m} + 250 \text{ m}^2 \times 0.267 \text{ g} = 66.8 \text{ kg} + \text{the weight of your spool}.$

**IMPORTANT:**

If you have a product, made by a competitor, that weighs less than 260 g/m<sup>2</sup> for 250  $\mu$  film, you can ask yourself 2 questions: "Is it really 250  $\mu$  thick?" and "Is it really M1 certified film?"

Fire retardant film (e.g. M1) and untreated film (e.g. M4) should not be compared in terms of welding, tension and shrinkage in the same way.

The fire retardant agents that produce a fire proof product "cannot be worked as well".



## Is the shrink wrap film UV stabilised?

In terms of the chemical composition:

The additives that stabilise the film against UV radiation are called HALS (Hindered Amine Light Stabilizer) light stabilisers.

These additives protect the polyethylene against heat and light damage.

We are working on a special fire retardant range stable for up to 18 months, using a combination of fire retardant agents and specific light stabilisers, which are also more expensive.



We have developed a new range to meet the needs of your different projects:

M4 film: UV 12 months

M1 film: UV 6 months

B1 film: UV 12 months

UV stabilisation is calculated based on 80 kLy per year, corresponding to average sun exposure in the Paris region.

**Please  
note!**

PE films are more sensitive in the presence of sulphur and chlorine, which inhibit the action of HALS Standard light stabilisers.

The film breaks down more quickly and becomes brittle.

## Transparent films?

When you install it, the transparent film enables you to see your work-site (through the product).

However, when you shrink the film it will become opaque.

The film loses its transparency when it is heated, making it necessary to light your worksite when light levels are low.

Our solution: the transparent PVC window, as seen in the photo. The transparent PVC window allows you to see inside your worksite and creates openings for light to enter.



## Bi-orientation?

Alphatex manufactures all of its shrink wrap films using extrusion dies that produce BI-ORIENTED film, with widths going from 4 to 14 m (maximum).

Shrinkage is related to the width of the extrusion die in comparison with the width of the blown tubing. For convenience, when a large die is used to manufacture a "small" width, it is simpler and cheaper to minimally inflate the bubble and stretch the plastic upwards more.

This means that when it is used, the plastic will shrink more lengthwise than widthwise.

Alphatex's expertise allows us to offer bi-oriented, 8 m wide film with balanced shrinkage along its length and width.

## The weather window?



To install shrink wrap film, it is recommended you avoid the following climatic conditions:

### 1/ Wind over 20 km/h

The wind pushes the shrink wrap film, negatively affecting the heating process (the film is not heated uniformly). The heat-shrunk film forms rings that are more or less resistant and visible.

Moreover, the film's movement promotes the formation of flash during shrinkage, leading to fragile areas of film. Flash is a zone that is over-exposed to heat where the film loses some of its thickness.

### 2/ Rain

The film starts to shrink when it reaches 110°C. If it is raining during the shrinking process, the drops of water will cool the material, resulting in poor shrinkage. You can see the effect the rain has on the film, which is not smooth but has a droplet-like appearance where each raindrop hit it. The film is weakened.

Careful of combined climatic conditions. In winter, when it is raining, it can be tempting to install the film and wait for a dry spell to shrink it. However, in freezing temperatures, if the rain freezes on it, the film will harden during the shrinking process, taking on a cardboard-like appearance and become very brittle!

# M1 and B2 Shrink Wrap Films

*If you require specific sizes or thicknesses, please contact us.*



*For new widths, the number of tonnes to manufacture must equal the width.*

*e.g. for 6.5 m wide film, 6.5 tonnes must be produced.*

*For any other requests, for other colours or lengths in existing widths, the number of tonnes to manufacture must be between 2 and 3 tonnes.*

*All of our products are rated according to European regulation 13501-1*



Confinement de chantier intérieur			
SECURIPLAST 200μ	3m x 50m		RI de 0,80m
SECURIPLAST 200μ	10m x 28m		RI de 1,75m
Confinement de chantier intérieur			
SECURIPLAST 220μ	7m x 30m	 non-flammable	RI de 1,75m
SECURIPLAST 220μ	10m x 28m		RI de 1,75m
SECURIPLAST 220μ	12m x 24m		RI de 1,75m
SECURIPLAST 250μ	10m x 25m		RI de 1,75m
SECURIPLAST 320μ	7m x 15m		RI de 1,80m
SECURIPLAST 320μ	10m x 20m		RI de 1,80m



UV  
months

6

Confinement de chantier extérieur - Norme Européenne			
B1 PLAST 250μ	10m x 15m et 10m x 30m	 DIN 4102-B1	RI de 1,75m
B1 PLAST 280μ	6m x 20m et 6m x 40m		RI de 1,55m
B1 PLAST 280μ	7m x 15m et 7m x 30m		RI de 1m
B1 PLAST 280μ	7,25m x 15m		RI de 1m



UV  
months

12

*On request, we can cut rolls lengthways to reduce the weight of the rolls.*



*The free-falling dart impact test assesses the film's resistance.*

*The results of the dart tests carried out on our films are available upon request.*

*The standard is 300 g (a weight of 300 g is required to pierce the film)*

*Dart test result for our M1 films >650 g*

*Dart test result for our B1 films >650 g*

**INFORMATION:** *Fire-rating certificates duly granted by an authorised inspection body must specify the weight and thickness of the film tested.*

*All of our films comply with the REACH standard*





# M4 Shrink Wrap Films

Non fire-rated films are rated M4.




Shrink wrap films

Hivernage - Emballage - Cocooning - Confinement - Cloisonnement intérieur			
ALPHAPLAST 180μ	4m x 70m	 non classé au feu	RI de 1,05m
ALPHAPLAST 180μ	6m x 46m		RI de 1,55m
ALPHAPLAST 180μ	8m x 35m		RI de 2m
ALPHAPLAST 180μ	10m x 28m		RI de 1,75m



UV 12 months


Confinement de chantier de courte durée en intérieur ou extérieur			
ALPHAPLAST 220μ	8m x 35m	 non classé au feu	RI de 1,95m
ALPHAPLAST 220μ	10m x 28m		RI de 1,75m
ALPHAPLAST 220μ	12m x 24m		RI de 1,75m
ALPHAPLAST 250μ	10m x 25m		RI de 1,75m
ALPHAPLAST 320μ	10m x 20m		RI de 1,55m
ALPHAPLAST 320μ	7m x 15m et 7m x 30m		RI de 1,80m

All of our films comply with the REACH standard



## Flexible M4 Film

Non fire-rated films are rated M4.

Confinement de chantier intérieur et extérieur - Désamiantage			
POLYAPLAST TRANSLUCIDE 200μ	3m x 40m	 non classé au feu	RI de 1,50m
POLYAPLAST NON TRANSLUCIDE 200μ	3m x 40m		RI de 1,50m



Dart test result for our M4 films >700 g

# Alphasol film

- Plastic film Opaque white Recycled HDPE
- Not UV stabilised - Use from -50°C to +50°C
- Designed to protect floor surfaces
- 2 thicknesses available

## Alphasol film 500 µ



HDPE


470 g/m<sup>2</sup>


100%



not UV stabilised



thickness 500 µ

Usage: laid on scaffolding platforms, this resistant film will not pierce.  
For asbestos removal: you can join the shrink wrap to the floor protection film with adhesive or double-sided tape.



Dart Test for our film: 900 g



Designation	Code Produit	Conditionnement
ALPHASOL Film opaque ép. 500µ 470g/m <sup>2</sup>	5FPP440200	Rouleau de 2x20m

## Alphasol film 900 µ



HDPE


850 g/m<sup>2</sup>


100%



not UV stabilised



thickness 900 µ



Designation	Code Produit	Conditionnement
ALPHASOL Film opaque ép. 1000µ 980g/m <sup>2</sup>	5FPP980200	Rouleau de 2x20m



Dart Test for our film: 1500 g



# Adhesive and double-sided

A complete range of heat-shrink and double-sided tape.

## Heat-shrink tape

Our tape complies with the **PMUC** standard.  
In compliance with the **EDF** chemical specifications and the **IRSN** specifications ref:  
**DSU/SERAC/CTHEN No. 95-082 - index 2.**



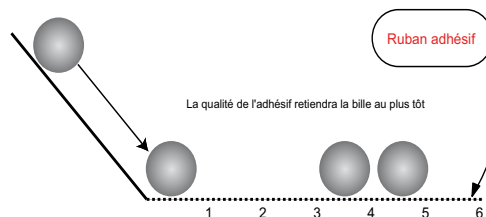
**No. 1 in Europe and France.**

Désignation	Tack à la bille	Dimensions	Conditionnement	Code Produit
ADHESIF THERMO RETRACTABLE Confinement - Désamiantage	Tack 0,4cm	48 mm x 33m	Carton de 24 rlx	5DHP134048
	Tack 0,4cm	72mm x 33m	Carton de 16 rlx	5DHP134072
	Tack 0,4cm	96mm x 33m	Carton de 12 rlx	5DHP134096
	Tack 0,4cm	144 mm x 33m	Carton de 8 rlx	5DHP134144

Désignation	Tack à la bille	Dimensions	Conditionnement	Code Produit
ADHESIF THERMO RETRACTABLE Emballage et Hivernage	Tack 3,4cm	48 mm x 55m	Carton de 24 rlx	5DHP234048
	Tack 3,4cm	72 mm x 55m	Carton de 16 rlx	5DHP234072
	Tack 3,4cm	96 mm x 55m	Carton de 12 rlx	5DHP234096
	Tack 3,4cm	144 mm x 55m	Carton de 8 rlx	5DHP234144

## Rolling ball tack:

standardised test measuring the tackiness of the glue on the sticky side of the tape.  
The test involves rolling a ball along the tape.  
The test is measured in centimetres. The shorter the distance the ball rolls, the more adhesive the glue is.



Norme PSCT 6	Tack à la Bille en cm	0,4	3,4	4,2
Norme AFERA 5004	Allongement à la rupture en %	170	165	183
Norme AFERA 5004	Résistance à la rupture en N/cm	38,8	33,3	22,2



Are you looking for strong tape? Look no further. Our high tack (0.4 cm) references are the most effective in terms of adherence.



## Double-sided tape

Our tape complies with the **PMUC** standard.  
In compliance with the **EDF** chemical specifications and the **IRSN** specifications ref:

Désignation	Code Produit	Conditionnement
ADHESIF DOUBLE FACE épaisseur 1mm 19mm x 20m	5DHP010019	Carton de 20 rlx
ADHESIF DOUBLE FACE épaisseur 1mm 19mm x 20m	5DHP010015	Carton de 48 rlx
ADHESIF DOUBLE FACE PVC ep 0.25mm 50mm x 50m carton de 12 rlx	5DHP025050	Carton de 12 rlx

# Rafale heat gun 4065 65

**CEST NOUVEAU!**

Propane gas-powered welding and shrink gun.  
Practical, safe, powerful and reliable

## Rafale heat gun 4065

Energy source: Propane gas

- Power: 65 kW
- Hose 10 m ISO 3821
- Quick connector
- Safety regulator

65 kW



Practical: with its foldable fixing hook, it can be easily put down on a workstation.

Safe: no risk of burning, the aluminium nozzle is surrounded with a double protection.

Performance: 2 power levels to adapt to the most demanding environments.

Reliable: with its integrated ignition, it always starts when you want, immediately.

Désignation	Code Produit
Pistolet Rafale 4065 65KW avec sa malette	5ATDPIS0066

## Ripack heat gun

Ripack heat guns 2200 and 3000

Energy source: Propane gas

Power: between 72 and 76 kW

Hose 8 m

Quick connector

Safety regulator

Bonus: spare piezo ignition with the Ripack 3000 + carry case / step stool



Practical: hanger ring on the bottom.

Safe: no risk of burning with its nozzle that remains cool

Performance: with the Ripack 3000's nozzle and increased power compared with the Ripack 2200 you save 15% more time

Reliable: impact resistance - 1 year guarantee.

72 kW

76 kW

Désignation	Code Produit
PISTOLET RIPACK 2200 fourni avec sa malette	5ATDPIS220
PISTOLET RIPACK 3000 fourni avec sa malette	5ATDPIS300

Many accessories are available in the Ripack range (gas-cylinder trolley, extensions, hoses, etc.). Please contact us if interested.



# Hornet heat gun with Extension **C'EST NOUVEAU!**

*Hornet heat gun: rapid, powerful and precise  
1.2 m extension for 90 kW Hornet*

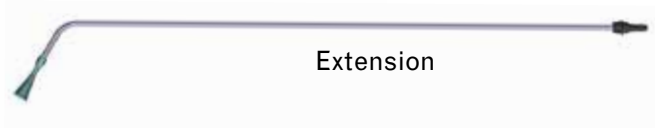
Heat gun with Extension



Hornet heat gun

70 kW

90 kW



Extension

## Hornet heat gun

- Power: 70 kW and 90 kW: perfect for 200 to 300  $\mu$  films
  - Patented (COANDA-type) burner, the only of its kind in the trade
  - Weight including handle: approx. 600 g (compared with 2 kg and over for competitor's models for this length)
- Easy to handle and extremely precise  
Manual burner direction (rotation along the lance's axis)



## 1.20 m extension

With this 1.20 metre extension, the film can be shrunk in a radius of over 2 m around the operator without moving.

The extension makes it easier to work on boats, at height, on large volumes, on scaffolding and for containment.

1 pair of gloves included (free)



Désignation	Code Produit
Pistolet HORNET 70 kw avec sa malette	5ATDPIS070
Pistolet HORNET 90 kw avec sa malette	5ATDPIS090
LANCE pour Pistolet HORNET 90 kw	5ATDLAN090

# Installation accessories

Shrink wrap film requires using specific "accessories" to install it: positioning, attaching, openings...



## Gloves and mitts

Désignation	Code Produit	Conditionnement
GANTS THERMO 5 doigts	5ATDGAN001	par paire
MOUFLES THERMO 3 doigts	5ATDMOU001	par paire



## Glues

Désignation	Code Produit	Conditionnement
COLLE EN BOMBE THERMO	5ATDADH001	Carton de 12 bombes

Non CMR (Carcinogenic, Mutagenic, Reprotoxic)



## Positioning and reinforcement strapping

**3 references available**

Désignation	Code Produit	Conditionnement
SANGLE TRESSEE THERMO 19mm x 600m	5ATPSAN019	Carton de 2 bobines
SANGLE TRESSEE THERMO 19mm x 100m	5ATPSAN119	Carton de 6 bobines
SANGLE TRESSEE THERMO 25mm x 500m	5ATPSAN025	Carton de 2 bobines



## PP twisted cord (stranded)



Désignation	Code Produit	Conditionnement
Corde câblée PP Polysteel blanche Ø 8mm x 100ml ou 300ml	5COXP08100 / 5COXP08300	Vendu à la bobine
Corde câblée PP Polysteel blanche Ø 10mm x 100ml	5COXP10100	Vendu à la bobine
Corde câblée PP Polysteel blanche Ø 12mm x 100ml	5COXP12100	Vendu à la bobine

Tensile strength Ø 8 mm: 1200 kg  
Tensile strength Ø 10 mm: 1800 kg  
Tensile strength Ø 12 mm: 2700 kg



# Installation accessories

Shrink wrap film requires using specific accessories to install it: positioning, attaching, openings.



## Shrink wrap clips for scaffolding

Désignation	Code Produit	Conditionnement
CLIPS THERMO 45mm	5ATGCLI001	Carton de 50 ou 500 pièces

**Installation bars:** single or triple-channel to create a double skin in shrink wrap film or polyethylene. Film held in place with PVC double key. Can be used with film up to 400 µ.



Désignation	Code Produit	Dimensions
Barre d'étanchéité alu à clips simple avec jonc et clé pvc	5ATDBAC102	0.25 x 2m
Barre d'étanchéité alu à clips simple avec jonc et clé pvc	5ATDBAC103	0.25 x 3m
Barre d'étanchéité alu à clips simple avec jonc et clé pvc	5ATDBAC104	0.25 x 4m
Barre d'étanchéité alu à clips triple avec jonc et clé pvc	5ATDBAC302	0.70 x 2m
Barre d'étanchéité alu à clips triple avec jonc et clé pvc	5ATDBAC304	0.70 x 4m

## Zips

Désignation	Code Produit
Zip PVC 650 M1 - 2m	5ATEZIP021
Zip PVC 650 M1 - 3m	5ATEZIP231
Zip PVC 650 M1 - 4m	5ATEZIP241
Zip PVC 650 M4 - 2m	5ATEZIP224
Vendu à l'unité	



non classé au feu



PVC Zip 650 M1 - 2 m white  
+ transparent 35 cm extension - 1000 g/m<sup>2</sup> M2  
Shine a light on your work-sites!



Désignation	Code Produit	Conditionnement
Zip PVC 650 M1 - 2m + allonge transparente	5ATEZIP011	A l'unité

# Installation accessories

*Shrink wrap film requires using specific accessories to install it: positioning, attaching, openings.*

## Windows and doors



**C'EST NOUVEAU!**

Désignation	Code Produit
Fenêtre U 0.60 X 1.2m M1 - Blanche	5ATEFEN021
Fenêtre U 0.60 x 1.2m M2 - Transparente	5ATEFEN025
Vendu à l'unité	

Désignation	Code Produit
Porte U 1.20m x 2m M1 - Blanche	5ATEPOR011
Vendu à l'unité	

## Porthole window: the Alphabulle A 180° view of your worksite

**C'EST NOUVEAU!**



Désignation	Code Produit	Conditionnement
Fenêtre Hublot : L'Alphabulle 45x45x20cm	5ATEHUB001	A l'unité



# Our recommendations Products / trades



# Trade: Scaffolding

Shrink wrap film ensures your worksites are totally contained and perfectly sealed.

It allows you to carry out sand-blasting, spray cleaning and painting while avoiding delays due to bad weather in winter.



For your work,  
we recommend 220, 250  
film.

Before



After





# Trade: Asbestos removal Decontamination

Using the film you can create an entirely closed environment, protected from water, air and dust.

Further applications are appearing, such as repair work on civil engineering structures (SNCF bridges) over rivers, preventing any risk of pollution.

Protecting inside areas against dust, especially in public buildings, allows work to be carried out alongside usual business.

Due to new standards and regulations, it is essential to use products that meet various criteria:

- fire rating, all our M1 films possess a valid certificate.
- safety data sheets for our films, adhesive tapes and accessories, listing the main components, and usage and storage advice.
- our films meet the requirements for use in nuclear power plants.

For asbestos removal,  
we recommend  
220 and 250  $\mu$  M1 film.





# Trade: Packaging

We have a wide range of M4 films of different thicknesses, from 180 to 250  $\mu$ .

To wrap modules or large items, we have film up to 14 m wide.

Our film is opaque white or transparent, but other colours can be specially made to order to meet your needs.

We can also manufacture films with other widths upon request.



For packaging,  
we recommend  
180 and 220  $\mu$   
large-width film.



The extensions and heat guns are essential accessories for perfectly shrink-wrapped and inaccessible goods.



# Trade: Winterising and Transportation



Once again, shrink wrap film proves its effectiveness, protecting your goods or deliveries from theft, bad weather and dirt during transportation (vehicles, boats, pallets, machine-tools, furniture, etc.)



For winterising, we recommend  
180 and 220  $\mu$  large-width film.



Hornet heat gun  
and its extension wand:  
the perfect  
combination to  
easily wrap  
your boat.

See page 19  
in this catalogue.



# Training

accredited or not accredited by our partner.

*We can refer you to specialists in the field.*

*This training involves two stages:*

*- a theoretical approach (Characteristics - Manufacture - Standards - CSTB Rating)*

*- a practical approach (Cutting, Attaching and Welding film, tension, laying film as tiles, installing zips and windows, etc.)*

## Example training exercise



Laying a shrink wrap roof.

The film lays on the support strap, the strap is positioned in a cross, to avoid the "gutter" effect.



Installation accessories: strapping page 20



The film is held around the edges of the scaffolding by shrink wrap clips attached to the bar before heating.



Installation accessories: clips on page 21



The film is then positioned around the scaffolding, held by clips and adhesive tape at joins.

Flaps at the bottom of the structure are held by double-sided tape.



Tape: page 17



The film is then heated using a heat gun powered by a gas cylinder.



Accessories and Heat guns: page 18



A PVC zip is attached to the heated structure, a slit is then cut and the opening is operational.



Zips and windows: page 21



*We offer training kits tailored to your type of application.*

## Table of French and European fire ratings

Classement Français	EUROCLASSES
Classes selon la NF EN 13501-1 (Novembre 2002)	
M0 matériaux incombustibles	A1 matériaux incombustibles A2 s1 d0
M1 matériaux non inflammables	A2 s1 d1 A2 s2 d0 A2 s3 d1 B s1 d0 B s2 d1 B s3
M2 matériaux difficilement inflammables	C s1 C s2 C s3
M3 matériaux moyennement inflammables	D s1
M4 matériaux facilement inflammables (non gouttant)	D s2 D s3
M4 matériaux facilement inflammables	Toutes classes autres E d2 et F
M5 matériaux très facilement inflammables	

**s: smoke opacity (quantity and speed)**

- s1: low quantity / speed
- s2: average quantity / speed
- s3: high quantity / speed

**d: burning droplets and debris**

- d0: no debris
- d1: no debris burning for over 10 seconds

**What is PMUC?** : If your products and materials are intended to enter a nuclear power plant, EDF requires that they are PMUC certified (Products and Materials Used in Nuclear Power Plants).

The PMUC analysis determines the concentrations of halogens (F, Cl, Br) and sulphur in products and materials that will be used in Power Plants, according to the EDF protocols specific to the type of product.

Once the products have been analysed, a report is prepared and sent to the customer who can then communicate the analysis' results to EDF in order to receive PMUC certification.

**Bi-oriented:** when shrink wrap film is extruded it can be mono- or bi-oriented. A bi-oriented film is stretched along its length and width when it is extruded. This technique increases the film's strength and its capacity to shrink.

**Mono-oriented:** when shrink wrap film is extruded it can be mono- or bi-oriented. Mono-oriented film is stretched in a single direction when it is extruded.

**Fireproofing:** The materials are rated according to their flammability. Some materials, such as netting, can be treated during production or in a bath to ensure fire resistance (certified netting). These materials are described as fire retardant (see fire ratings table).



**Certification and test reports:** Our films and our accessories are certified and permanently tested.



Latest test: Rupture test on 2 new strapping references.

# General terms and conditions of

## Article I - SCOPE

The present General Terms and Conditions of sale apply to all sales concluded by Alphetex with professional buyers, regardless of the clauses that may appear on the customers' documents, in particular their general terms and conditions of sale, with regard to the following products: - Netting in HDPE, PA, PES, PP - Tarpaulins in HDPE, PVC, PES, etc. - Installation accessories - Digital printing work.

## Article II - PRODUCTS

In theory, the products delivered comply with the descriptions in the catalogues and comply with the samples sent. However, the supplier reserves the right to modify or discontinue the product, whether for safety reasons, manufacturing practices or improvements to the product, or changes in the related standards in force. In the event of a pending order for a product that has been modified in this way, the supplier's only obligation is to deliver the product ordered, replacing it with the newly manufactured product or failing that a higher-quality product.

## Article III - ORDER ACCEPTANCE AND PRICES

Orders taken by the supplier's employees or any other duly authorised person at the company, are only definitive following receipt of a purchase order as per the quote, a copy of which must be dated and signed by a person authorised by the Purchaser and sent to the Supplier. The products are provided at the rates indicated in the attached pricing schedule, or as the case may be, in the business proposal addressed to the customer. These prices are firm and cannot be revised during their period of validity, which is 30 days, without the Supplier's express authorisation.

## Article IV - PAYMENT TERMS

The price may be paid in cash with a 1.5% discount on receipt of the invoice, excluding special conditions, by bill of exchange accepted within 30 days from the date of invoice or by transfer. Bills of exchange must be sent within 8 days. In the event of non-compliance with this deadline, the Supplier shall be entitled to demand immediate payment of all invoices due, including those that are not yet payable and suspend all pending or delivery phase orders, without prejudice to our rights to damages, where appropriate. Any invoices not paid in compliance with the preceding contractual conditions or individually agreed conditions, shall automatically accrue interest and surcharges at a rate 10 points higher than the BdF's bank rate, with no further procedures nor prior formal notice. This clause may not in any way be prejudicial to the payability of the debt. Moreover, any delay in payment shall automatically result, at the Purchaser's expense, in compensation, by way of a penalty clause, equal to 15% of the unpaid invoice, which will be recovered by the Supplier's legal department in compliance with articles 1152 and 1126 of the French Civil Code. The cost of returning unpaid goods shall be paid by the drawee.

## Article V - DISCOUNTS, REBATES and REDUCTIONS

In the event of quantitative rebates or reductions; the Purchaser may benefit from discounts, rebates or reductions, in return for participating in a Marketing or Sales campaign on behalf of the Supplier.

## Article VI - DELIVERY AND SHIPPING FEES

### DELIVERY

The delivery date provided is for information purposes and is an estimate. This date is not a fixed deadline and the Supplier cannot be held liable towards the Purchaser in the event of late delivery not exceeding one week. The products may be delivered to any other place specified by the Purchaser, subject to one week's notice and a minimum deadline of 72 hours, entirely at the Purchaser's expense. In the event of delivery to another place specified by the Purchaser, they shall provide the Supplier with precise information about the persons authorised (and under the Purchaser's responsibility) to receive the ordered products. If the Purchaser makes special requests with regard to the specific packaging (including metal racks which must be returned and are the inalienable property of the Supplier) or transportation conditions for the goods ordered, which are accepted in writing by the Supplier, the related costs shall be subject to specific additional invoicing. The Purchaser must check the appearance of the products on delivery. Unless explicit reservations are made by the Purchaser on delivery, the goods delivered by the Supplier will be considered compliant with the order in quantity and quality. The related transfer of risks of loss and deterioration to the Purchaser, shall occur as the goods leave the Seller's warehouse.

It is the Purchaser's responsibility to check the condition of the packages delivered, indicate any reservations on the transporter's delivery

slip, and confirm these reservations by letter with acknowledgement of receipt within the legally prescribed 48 hours to the transporter and inform the Supplier in writing within the same deadline.

No claim may be accepted if the Purchaser does not comply with these requirements.

The Supplier shall promptly, and at its own expense, replace the goods delivered whose non-conformity has been proven by the Purchaser.

### SHIPPING COSTS

Prices are established ex works. Shipping costs are additional.

## Article VII - TRANSFER OF OWNERSHIP - TRANSFER OF RISKS - RETENTION OF TITLE

The transfer of ownership of the goods from the Supplier to the Purchaser, will be effective only after full payment of the price agreed, regardless of the delivery date of such products. It is nevertheless expressly stipulated that the Purchaser shall be responsible for the goods in their possession following physical delivery. If the Purchaser fails to pay all or part of the price, the Supplier retains ownership of the goods sold until full payment is received, allowing it to claim the goods in the event of non-payment. Any deposit paid by the Purchaser will remain the property of the Supplier by way of compensation, without prejudice to any other courses of action they are legally entitled to take against the Purchaser.

## Article VIII - THE SUPPLIER'S RESPONSIBILITIES - GUARANTEES

The products delivered by the Supplier are covered by a warranty period in accordance with the needs specified by the Purchaser, who stipulated the terms on confirming the purchase order. In compliance with the legal provisions, the Supplier guarantees the Purchaser against any hidden defects due to defective material, design or manufacture affecting the delivered goods rendering them unfit for use. All warranties are considered void in the event of wrongful use, negligence or lack of maintenance by the Purchaser, and for normal wear and tear of the goods or force majeure. To assert its rights, the Purchaser must, under penalty of invalidating any other relevant actions, inform the Supplier in writing of these defects within a maximum of six months of their discovery.

The Supplier shall replace or repair the guaranteed goods or parts deemed faulty. This guarantee only covers the goods "on the ground" and in no case the labour costs related to their removal and reinstallation (excluding special agreements).

The replacement of faulty goods or parts shall not extend the warranty period fixed above.

## Article IX - ELECTION OF DOMICILE AND COMPETENT COURT

In the event of dispute, the Rouen Commercial Court shall be the sole competent authority. All orders automatically presume that the Purchaser has accepted the Supplier's general terms and conditions of sale, notwithstanding any contradictory stipulations in their own general terms and conditions.

## Article X - APPLICABLE LAW

All clauses in the present general terms and conditions of sale, and all purchases and sales described herein, are governed by French law.

## Article XI - INTELLECTUAL AND COMMERCIAL PROPERTY CLAUSE

All of the Supplier's documents are protected by patents filed with the INPI (National Institute of Industrial Property) and WIPO and by current laws on industrial and commercial property. Any full or partial reproduction by any means will be prosecuted in the relevant courts.





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