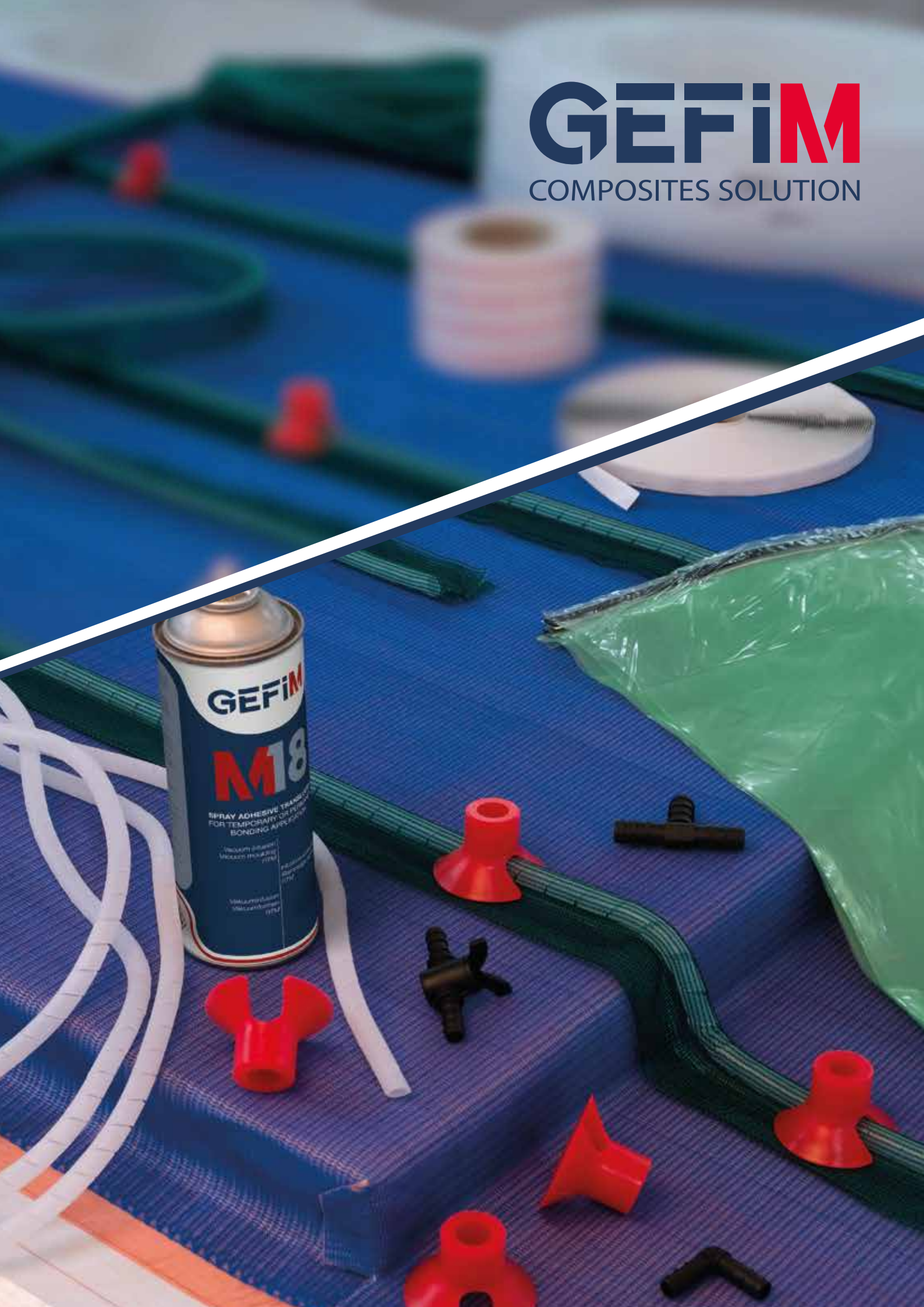


GEFiM

COMPOSITES SOLUTION





GE.FIM srl is a company operating in the composite materials sector. Headquartered in Pesaro, the company has two main production sites: Pesaro and Monterado. Ge.fim represents the passion and entrepreneurial spirit of dynamic and reliable people. The company is personally managed by the owners, supported by sector managers and technicians with a solid professional background and unquestionable reliability. A completely innovative approach to customer service and a constant commitment to continuous improvement have enabled GE.FIM to develop its skills and knowledge and quickly establish itself in the nautical, wind and automotive markets.

With a total covered area of 12,500 sqm between the two sites, GE.FIM has created three main divisions:

- **COMPOSITES DIVISION**
Composite consumables supply
- **KITTING DIVISION**
Cutting and processing kits
- **FIBERGLASS AND COMPONENTS DIVISION**
Supply of large fiberglass models, moulds and components

COMPOSITE DIVISION

The company manufactures and distributes a wide range of consumables designed to cater for the needs of the composite market as well as the nautical, wind power and automotive sectors, including bagging materials used for vacuum moulding, vacuum infusion and autoclave processes. Customers can request customized items and kits such as, vacuum bagging films, spiral nets, peel ply, resin flow mesh and carbon fibers. The requested items can be cut and packaged in ready-to-use boxes according to customer specifications. GE.FIM takes care of the logistics and distribution side of the business ensuring the respect of delivery times thanks to a constant availability of goods in its warehouse



FIBERGLASS AND COMPONENTS DIVISION

Thanks to recent investments and know-how, GE.FIM is able to support its customers in the design and production of models, moulds and plugs for the composite world, including nautical, wind and automotive.

The headquarters in Pesaro is the main centre for direct milling of MDF models and moulds thanks to 3-4-5-axis CNC machines. At the Monterado site, hybrid models of hulls, decks and superstructures up to 40 metres are built in patterns, planking and milled blocks. These are used to make the final fiberglass moulds.

At this site, large doors and a lift height of 9.5m enable the company to produce large fiberglass components using the infusion process. The plant also has a 28m long oven for post curing.

KITTING DIVISION

Ge.Fim's kitting service offers pre-cut kits made from PVC, Balsa, PU, Polyethylene, Delrin and MDF. The benefits are: optimized fit, reduced resin consumption and improved infusion and prepreg applications. Using a CNC proprietary cut profile for each kit detail, the core is cut part way through its thickness, eliminating the need for a scrim backing, leaving a smooth surface and curvature on the mould side.

The core can also be perforated to allow for resin distribution and airflow. Additional grooves can be added to the core surface to distribute resin without the need for a flow mesh. The result is a kit with excellent formability, reduced resin consumption and an improved surface finish. Our technical office is always available to offer our customers the fullest support for greater efficiency.





VACUUM TECHNOLOGY PRODUCT RANGE

BAGGING FILMS

Item code	Max. temp.	Format	Use with resin	Process		
						
VACUUM BAGGING FILMS						
GFM-1VB051-GR	120°C	Sheet, V Sheet, Tube, Gusseted, Centrally Slit	E PE VE			
GFM-1VB001-OR	180°C	Sheet, V sheet, Tube, Gusseted	E PE V PH			
GFM-1VB001-BL	177°C	Sheet, V Sheet, Tube, Gusseted, Centrally Slit	E PE V PH			
GFM-1VB601-YL	177°C	Sheet, V Sheet, Tube, Gusseted, Centrally Slit	E PE V			
GFM-1VB801-VL	170°C	Sheet, V Sheet, Centrally Slit	E PE V PH			
GFM-1VB531-PK	204°C	Sheet, V Sheet, Tube	E PE V			
GFM-1VB341-V	204°C	Sheet, V Sheet, Tube	E PE V PH			
GFM-1VB731-OR	212°C	Sheet, V Sheet, Tube	E PE V			
GFM-1VB031-GR	205°C	Sheet, V Sheet, Tube	E PE V			
SELF RELEASE VACUUM BAGGING FILMS						
GFM-1SR461-GR	160°C	Tube, Gusseted tube	E PH			
DEBULKING FILMS						
GFM-1R761-GALETs	158°C	Sheet	E PE V	DEBULKING		
GFM-1R102-GEMB	114°C	Sheet	E PE V	DEBULKING		
GFM-1R051-OR	114°C	Sheet	E PE V	DEBULKING		
COMPACTING FILMS						
GFM-1CF102-OR	114°C	Sheet	E PE V	COMPACTING		
GFM-1CF102-DG	114°C	Sheet	E PE V	COMPACTING		

CAPTION



Infusion



Oven



Autoclave



Sheet



V sheet



Tube



Gusseted

Centrally slit



Gusseted Centrally slit

E : Epoxy | PE : Polyester | V : Vinylester | PH : Phenolic

BAGGING FILMS

• LOW TEMPERATURE

GFM-1VB051-GR



GREEN



75 cm - 42 m
customizable



75 μ m | 80 μ m



120°C

GFM-1VB051-GR is a puncture resistant co-extruded polyethylene and nylon based film, designed for the production of polyester / vinylester resin infused components for wind energy, marine and general composite industries.



• MEDIUM TEMPERATURE

GFM-1VB001-OR



ORANGE



86 - 3500 mm tube or V Sheet
2400 - 6000 mm gusseted.



50 μ m | 65 μ m
75 μ m



180°C

GFM-1VB001-OR is a highly flexible orange multilayer nylon vacuum bagging film suitable for advanced composite curing processing and laminated security glass. GFM-1VB001-OR is suitable for phenolic contact.



GFM-1VB001-BL



BLUE



2 | 3 | 4 | 6 | 8 | 10 | 12 m



50 μ m | 65 μ m
70 μ m | 75 μ m



177°C

GFM-1VB001-BL is a tough, high temperature resistant blue coloured co-extruded nylon- based vacuum bagging film, designed for use in the production of advanced composite structures for instance in wind energy and marine industry. GFM-1VB001-BL thanks to it's own structure, works very well in infusion process when exothermic reactions can appear



BAGGING FILMS

GFM-1VB601-YL



YELLOW



Up to 8.5 m



50μ | 65μ | 75μ



177°C

GFM-1VB601-YL vacuum bagging film is a tough, high temperature resistant co-extruded nylon-based material designed for use in the production of advanced composite structures such as wind turbine blades and nacells, boat hulls and decks, plus other industrial structures.



GFM-1VB801-VL



VIOLET



Up to 6 m



50μ



170°C

GFM-1VB801-VL is a light-violet coloured highly flexible multilayer nylon vacuum bagging film, designed for processing of advanced composite structures and laminated security glass. The film is ideal for use in both oven and autoclave cures, up to a maximum recommended temperature of 170°C and a maximum recommended pressure of 8 bars. Key benefits of this film are its high elongation and flexibility.



• HIGH TEMPERATURE

GFM-1VB531-PK



PINK



up to 2000 mm tubular
2000 - 4000 mm V-sheet



50 μm



204°C

GFM-1VB531-PK is a soft and flexible mononylon vacuum bagging film suitable for oven and autoclave cure temperatures up to 204 °C.



BAGGING FILMS

GFM-1VB341-V



VIOLET



Up to 3500 mm Tube
7000 mm V-Sheet



50 μ m



Max.

204°C

GFM-1VB341-V is a violet coloured coextruded mononylon vacuum bagging film, engineered to enhance softness at a maximum level.



GFM-1VB731-OR



ORANGE



Up to 2000 mm Tube
2000 - 4000 mm V-Sheet



50 μ m | 75 μ m



Max.

212°C

GFM-1VB731-OR is a sturdy yet soft multi-layer coextruded mono nylon vacuum bagging film, able to withstand high pressure and temperature autoclave cures up to 212°C. GFM-1VB731-OR film is recommended for applications where the attributes of higher softness, high elongation and durability are required, therefore the film can be used in autoclave, oven and resin infusion applications with polyester, vinyl ester and epoxy resin systems (the product is not suitable for use with phenolic resin).



GFM-1VB031-GR



GREEN



Up to 3000 mm tube
3000/6000 mm V sheet



50 μ m | 75 μ m



Max.

205°C

GFM-1VB031-GR is a flexible, high strength mononylon vacuum bagging film in green colour suitable for oven and autoclave cure temperatures up to 205°C.

NEW !

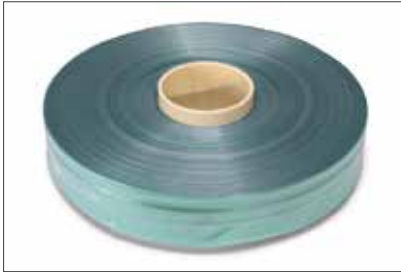
Available in 25mm,
50mm, 75 mm
layflat tube.



BAGGING FILMS

• SELF RELEASE BAGGING FILMS

GFM-1SR461-GR



GREEN



50 - 800 mm tube



70μ | 100μ



Max.

160°C

GFM-1SR461-GR is a self releasing multilayer nylon/polyolefin vacuum bagging film designed for processing hollow advanced composite structures where easy removal of the bag following the cure is desirable to as to avoid damage to the component.



NEW !

Available in easy to fit gusseted tube.



BAGGING FILMS

• DEBULKING FILMS

GFM-1R761-GALETs



PINK



1500 mm sheet width



50 μ m



Max.

158°C

GFM-1R761-GALETs is a pink coloured release film designed for resin infusion and prepreg application. The film is compatible with all commonly used resin systems. The film is embossed and features a “galets” pattern, to speed up the air extraction in debulking operations.



GFM-1R102-GEMB



LIGHT
GREEN



Up to 1800 mm



80 μ



Max.

114°C

GFM-1R102-GEMB is a light green coloured diamond-pattern embossed coextruded LDPE release film to be used with prepreg materials. Suitable to protect prepregs layups and to separate prepreg layers on the ply cutter when kitting. The modified surface structure speeds up the air extraction during debulking operation.



GFM-1R051-OR



ORANGE



Up to 6000 mm



60 μ

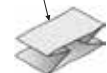


Max.

114°C

GFM-1R051-OR is an orange polyolefin based barrier film, developed for debulking applications in the composite industry, featuring good mechanical and release properties. The product is not intended for infusion or autoclave use.

Centrally slit



BAGGING FILMS

• PLAIN COMPACTING FILMS

GFM-1CF102-OR



ORANGE



Up to 1450 mm



70μ



Max.

-18°C

GFM-1CF102-OR is an orange coloured Coextruded LDPE film to be used as release from pre-pregs set ups. Product is available in other colours upon order.



GFM-1CF102-DG



DARK
GREEN



1080 mm | 1150 mm
1350 | 1450 mm



80 μm



Max.

-18°C

GFM-1CF102-DG is a Coextruded LDPE film to be used as release from pre-pregs setups. Product is available in other colours upon order.



RELEASE FILMS

Item code	Max. temp.	Perforations	Use with resin
GFM-1R002-OR	127°C	P3 P16 P31 NP	E PE V
GFM-1R302-SB	127°C	P3 P16 P31 NP	E PE V
GFM-1R212-YL	150°C	P3 P6 P16 P31 NP	E PE V
GFM-1R761-PK	158°C	P3 NP	E PE V
GFM-1R006PMP-RD	200°C	P3 P6 NP	E PE V
GFM-1R009FEP-RD	260°C	P3 P6 NP	E PE PH
GFM-1R109ETFE-BL	230°C	P3 P6 NP	E PE V

• PERFORATIONS SPECIFICATIONS

Process	NP	P3	P6	P16	P31
				●	●
	●	●	●		
	●	●	●		

CAPTION

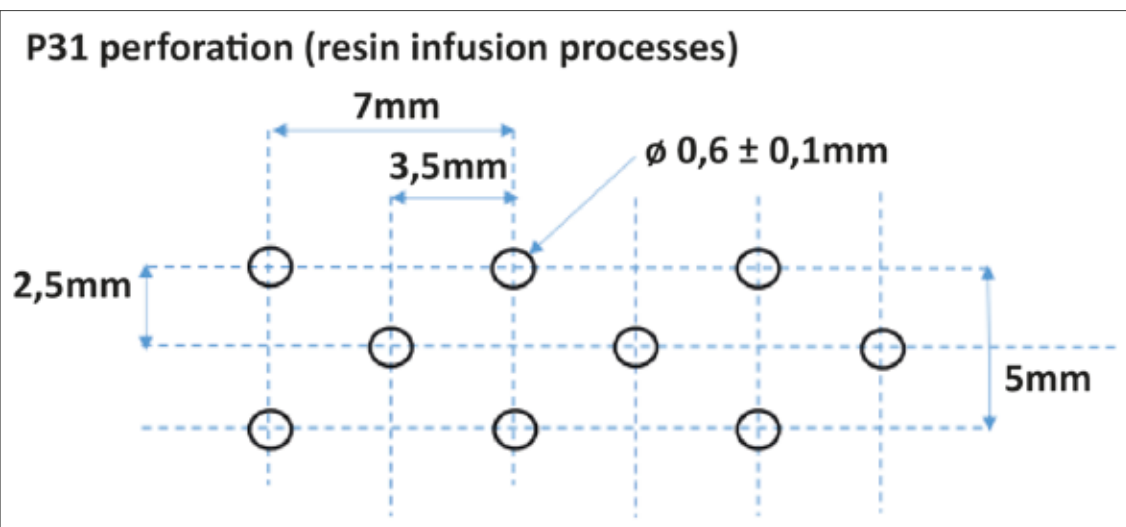
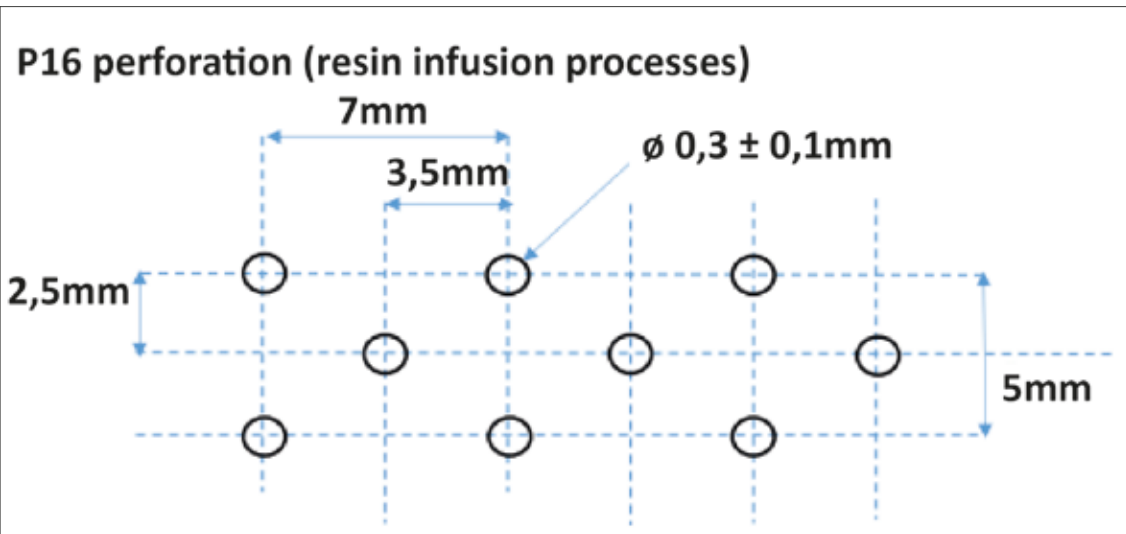
 Infusion

 Oven

 Autoclave

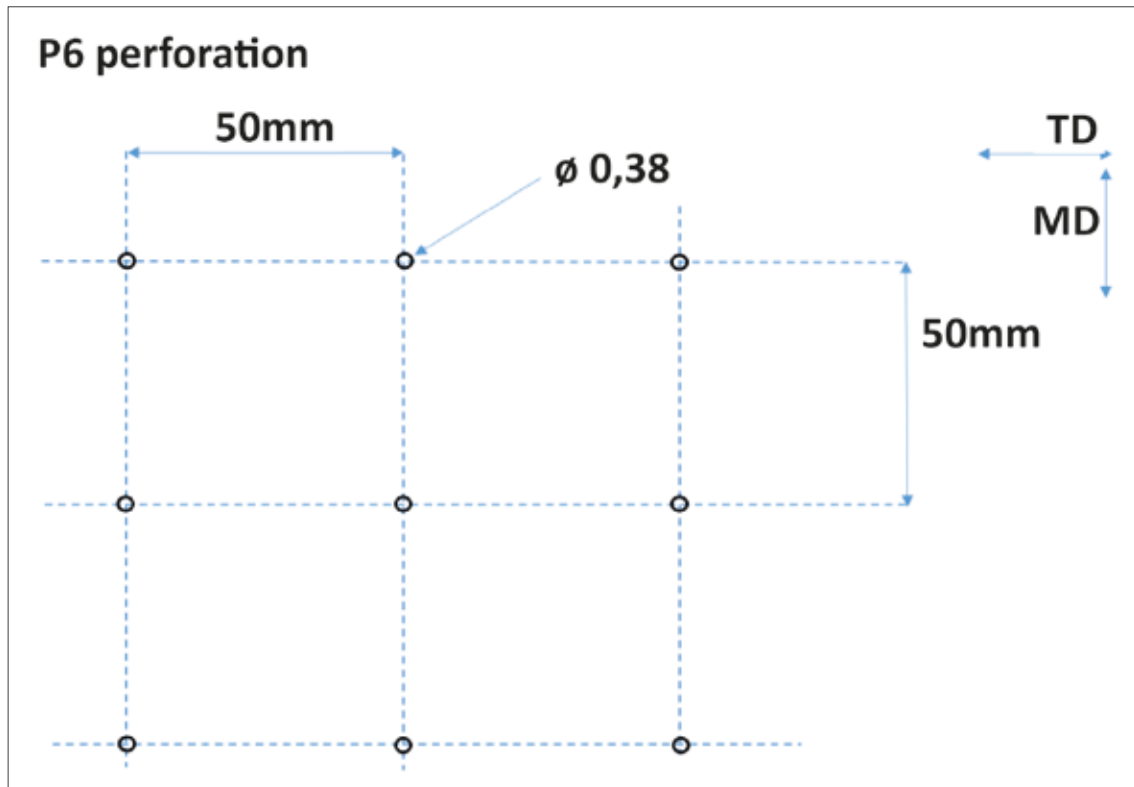
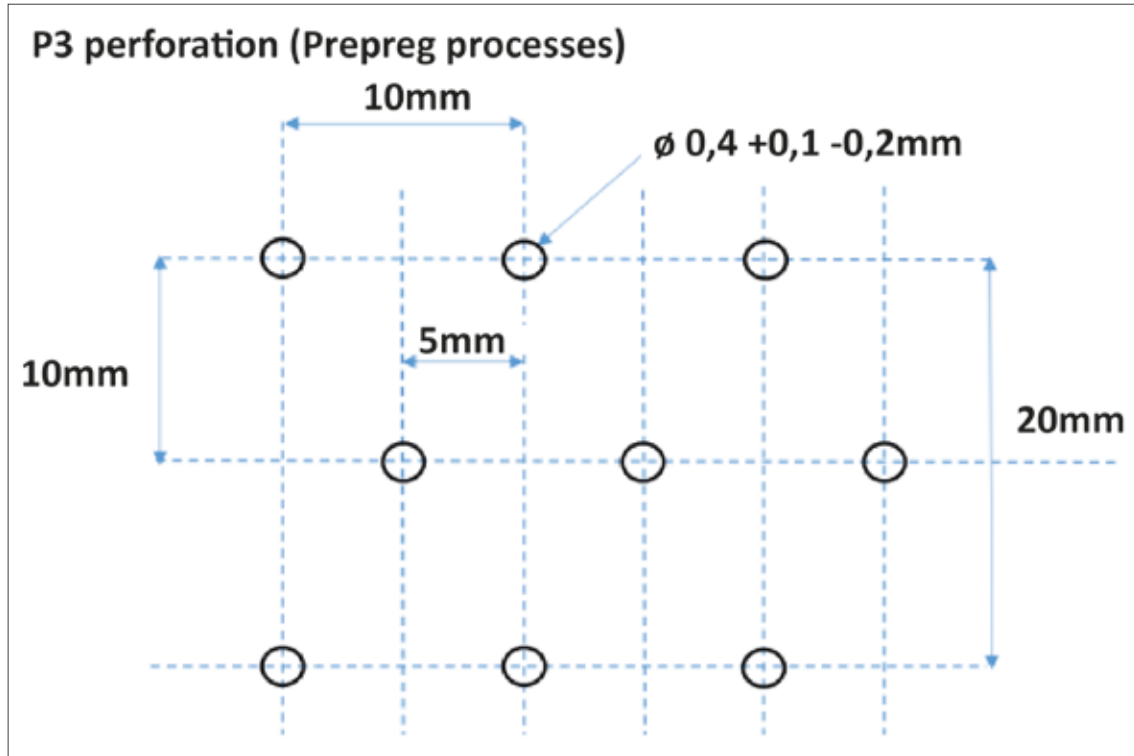
E : Epoxy | PE : Polyester | V : Vinylester | PH : Phenolic

- **RESIN INFUSION PROCESS PERFORATIONS**



RELEASE FILMS

• OVEN AND AUTOCLAVE PROCESS PERFORATION



RELEASE FILMS

• LOW TEMPERATURE

GFM-1R002-OR



	P3				 Max.
ORANGE	P16	1450 mm	500 m	25 µm	127°C
	P31				
	NP				

GFM-1R002-OR is obtained through hot needle perforation process and used in vacuum infusion process. Good stiffness and high tensile strength.

GFM-1R302-SB



	P3				 Max.
SKY BLUE	P16	1500 mm	250 m	28 µm	127°C
	P31				
	NP				

GFM-1R302-SB is obtained through hot needle perforation process and used in vacuum infusion process. Enhanced mechanical properties and high tensile strength.

• MEDIUM TEMPERATURE

GFM-1R761-PK



	P3				 Max.
PINK	P6	1500 mm	250 m	30 µm 50 µm 75 µm	158°C
	P31				
	P16				
	NP				

GFM-1R761-PK is a pink release film suitable for both resin infusion and prepreg processing. This product is compatible with all commonly used resin systems. In the non perforated version can work as self-releasing vacuum bagging film in debulking operations.

RELEASE FILMS

GFM-1R212-YL



	P3				
YELLOW	P31	1500 mm	250 m	30 µm 45 µm 50 µm	150°C
	P16				
	P6				
	NP				

GFM-1R212-YL is a medium temperature, highly flexible release film, suitable for use with epoxy pre-preg up to 150°C as well as in resin infusion applications with a wide range of resin systems.

• HIGH TEMPERATURE

GFM-1R006PMP-PK



	P3				
PINK	P6	1500 mm	250 500 m	30 µm	200°C
	NP				

GFM-1R006PMP-PK is a polymethylpentene (PMP) release film suitable for processing advanced composite components in autoclave. It features extremely good release properties and is ideal for use on a flat or single curvature mouldings.

GFM-1R009FEP-RD



	P3				
RED	P6	1220 mm 1530 mm	305 m 153 m	13 µm 20 µm 25 µm	260°C
	NP				

GFM-1R009FEP-RD is a high temperature FEP release film suitable for processing advanced composite components in autoclave. This film is compatible with all prepreg systems (including epoxy, polyester, BMI and phenolic), due to its high thermal stability. GFM-1R009FEP-RE guarantees a smooth finish.

RELEASE FILMS

GFM-1R109ETFE-BL



BLUE

P3

P6

NP



1530 mm



153 m



15 µm | 20 µm
25 µm



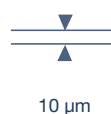
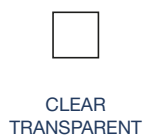
Max.

230°C

GFM-1R109ETFE-BL is the standard film for high temperature curing of advanced composite structures. Its high strength and toughness, coupled with excellent release properties make it ideal for use with all commonly used resin systems in both oven and autoclave cures.

MASKING FILMS

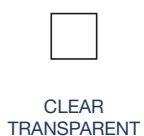
GFM-1MF002-CL10VS4000-150



GFM-1MF002-CL10VS4000-150 is a premium transparent masking film designed for vehicle and marine bodywork painting and reworking applications.



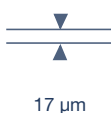
GFM-1MF831-CL18GS1700-100



GFM-1MF831-CL18GS1700-100 is a coextruded transparent film, developed for high temperature masking film application.



GFM-1MF302-GR17VS2000-100



GFM-1M302-GR17VS2000-100 is a green coextruded film developed for masking film applications. The film is corona treated and paint absorbing on one side.



THERMOSHRINKING FILMS

GFM-1SF052-W



WHITE



6 - 12 m



customizable



200 | 250
300µm



80°C

GFM-1SF052-W is a white coloured high puncture resistance LDPE thermoshrinkable UV resistant cover film designed for a wide range of applications such as protection of boats and other equipment during transport. The film is UV resistant at least 12 months in Central Europe weather conditions. This product is a coextrusion of virgin raw material (no recycled material used).

Centrally slit



GFM-1SFTAPE-72X33-W



WHITE



72 mm



33 m



230 µm



80°C

GFM-1SFTAPE-72X33-W is a white coloured heavy duty polyethylene tape, single coated with a synthetic rubber pressure sensitive adhesive.

Suitable for repairs, masking, building and splicing applications also in agricultural or marine sectors due to its UV resistance, good conformability to irregular surfaces and water-tight sealing properties.

Apply on clean, dry and degreased surfaces at temperatures over 18°C for best results.

RESIN FLOW MESH

GFM-1IM-YL115



LOW FLOW



YELLOW



115 gr/m²



1500 mm



100 m
customizable



Max.

120°C

GFM-1IM-YL115 is recommended for vacuum infusion technology and similar processes. It is compatible with all types of resin and it's high level of drapability makes it suitable for use even on complex surfaces.

GFM-1IM-BL140



MEDIUM FLOW



BLUE



140 gr/m²



1500 mm
customizable



100 m
customizable



Max.

120°C

GFM-1IM-BL140 is a medium flow knitted mesh used for resin infusion and similar processes. Compatible with all types of resin, it's high drapability makes it suitable for use even on complex surfaces.

GFM-1IM-YL180



HIGH FLOW



YELLOW



180 gr/m²



1500 mm



100 m
customizable



Max.

130°C

GFM-1IM-YL180 is a dense knitted mesh designed for vacuum infusion technology and similar processes. It is compatible with all types of resin, run resistant and appreciated for its high flow capacity.

RESIN FLOW MESH

GFM-1EXM



HIGH FLOW



GREEN
OR
WHITE



Up to
415 gr/m²



Up to 1 m



100 m
customizable



Max.
120°c

GFM-1EXM is an extruded mesh green or translucent and helps to efficiently distribute resin and reduce wasting resin during the process. This mesh can be used with polyester, vinylester and epoxy resins. Resins flows more easily throughout lay-up.

COMBI-MESH

TWO-IN-ONE



GFM-1DMP31-YL160



YELLOW
AND
RED



160 gr/m²



1450 mm



100 m
customizable



120°C

LOW FLOW



GFM-1DMP31-BL190



BLUE
AND
RED



190 gr/m²



1450 mm

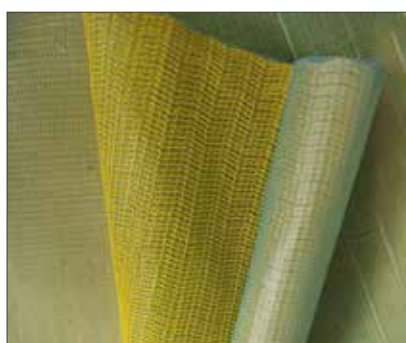


100 m
customizable



120°C

MEDIUM FLOW



GFM-1DMP31-YL230



YELLOW
AND SKY
BLUE



230 gr/m²



1450 mm



100 m
customizable



120°C

HIGH FLOW

Our two-in-one combo provides highly comfortable resin distribution and persistent air evacuation during vacuum assisted resin infusion processes, thanks to the special knitted pattern of the HDPE net and the P31 perforation of the HDPE film. Its inherent flexibility makes it perfect for use in complex designed moulds.

HEAT SEALED COMBI MESH



GFM-1DMP31-YL140



YELLOW
AND
RED



140 gr/m²



1450 mm -
2000 mm



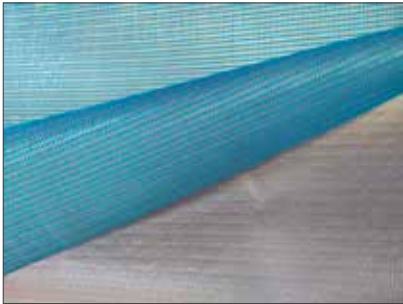
100 m
customizable



Max.

120°C

LOW FLOW



GFM-1DMP31-BL170



BLUE
AND
ORANGE



170 gr/m²



1450 mm -
2000 mm



100 m
customizable



Max.

120°C

MEDIUM FLOW



GFM-1DMP31-YL210



YELLOW
AND SKY
BLUE



210 gr/m²



1450 mm -
2000 mm



100 m
customizable



Max.

120°C

HIGH FLOW

Our two-in-one combo Heat-Sealed is a soft and conformable resin distribution media designed to facilitate the resin infusion process. The HDPE net and heat-sealed release film P31, guarantee a superior softness to the media allowing it to fit to even the most complex shapes. Our combo Heat-Sealed can be supplied in rolls up to 2000mm wide.

THREE-IN-ONE



GFM-1TRBL-295PP1520-100

				
WHITE BLUE AND RED	295 gr/m ²	1520 mm	100 m customizable	Max. 120°c

Our three-in-one combo provides highly conformable resin distribution and persistent air evacuation during vacuum assisted resin infusion processes, thanks to the special knitted pattern of the HDPE net the P31perforation of the HDPE film and peel ply. Its inherent flexibility makes it perfect for use in complex designed moulds.

COMBI-BLEEDER

GFM-1VACUTECH



					 Max.
ORANGE AND WHITE	customizable	25 μ m	1500 mm	50 100 m	120°C
	customizable	28 μ m	1500 mm	50 100 m	127°C
SKY BLUE AND WHITE					
	customizable	30 μ m	1500 mm	50 100 m	150°C
YELLOW AND WHITE					

Our multi-layer system is designed for processing composite materials as prepregs, wet lay-ups. Among the benefits are: less time wasting, better composite quality and one item to purchase and stock instead of three. Several versions available.

GFM-1BLD-W



				 Max.
WHITE	100 gr/m ²	1500 mm	100 m	200°C
	120 gr/m ²	1500 mm	100 m	200°C
	150 gr/m ²	1500 mm	100 m	200°C
	230 gr/m ²	1500 mm	50 m	200°C
	300 gr/m ²	1500 mm	50 m	200°C
	400 gr/m ²	1500 mm	50 m	200°C

GFM-1BLD-W is a 100% polyester bleeder of the highest quality able to adapt to the most complex laminate shapes. Thanks to its excellent ventilation, the bleeder can withstand vacuum and autoclave pressure processing.

GFM-1GCORE



				
WHITE	55 gr/m ²	2 mm	1000 mm	80 m
	80 gr/m ²	3 mm	1000 mm	50 m
	105 gr/m ²	4 mm	1000 mm	40 m
	125 gr/m ²	5 mm	1000 mm	30 m

Ge.fim G-CORE is a non-woven core material made of foamed micro hollow pearls and asserted with short fibres. After impregnation with polyester resin the nonwoven becomes smooth and formable. Suitable as a core layer in glass fibre-polyester-laminates. The G-Core optimizes resin absorbtion with good tensile strength when wet.

PEEL PLY

GFM-1PA6G68



GREEN



68 gr/m²



75 - 150 mm



100 m
customizable



150°C

Green nylon fiber-based fabric designed to eliminate excess resin from the laminate, thus improving its mechanical values, as well as preparing the internal surface of the product and avoiding the preparatory phase of sanding.

GFM-1PA6WR85



WHITE
AND
RED



85 gr/m²



30 - 1520 mm



100 | 200
300 | 400 m



180°C

This type of nylon fiber-based fabric is able to eliminate excess resin from the laminate, thus improving its mechanical values, as well as prepare the internal surface of the product making it ready to be relayered or glued, avoiding the preparatory phase of sanding. The red tracer makes it visible for easy removal.

GFM-1TW2/2WR105-100X100



WHITE
AND
RED



105 gr/m²



100 mm



1000 mm



204°C

High tenacity nylon peel ply, this fabric leaves a rough surface impression for priming and secondary bonding, twill construction allows very good elongation of the fabric to ensure an easier drapability. The tracer lines makes it visible for easy removal.

GFM-1PA6-ADH85



WHITE
AND
RED



123 gr/m²
customizable



50 - 1520 mm



100 m

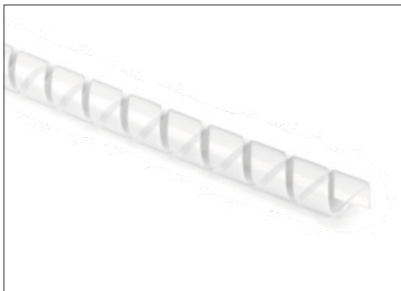


180°C

Self-adhesive nylon 6 peel ply fabric, designed for hand lamination and the vacuum infusion process. The red tracer as a visible indicator reduces the possibility of any peel ply being left on the laminate.

RESIN FLOW MEDIA

SPIRAL WRAP



GFM-1SPW-W



TRANSLUCENT



8/10 mm | 09/12 mm
12/14 mm | 14/17 mm
Customizable



25 | 100 m
Customizable



100°C



GFM-1SPW-B



BLACK



12/14 mm



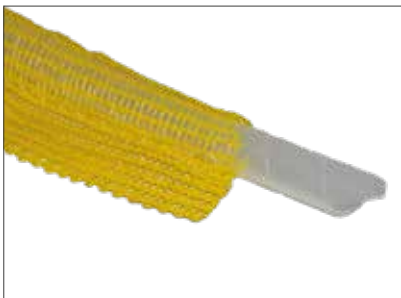
50 m



100°C

LDPE and PVC Spiral Tube is ideally suited for vacuum line extenders or resin feed lines. This tubing is often used in vacuum infusion to allow vacuum pressure to be easily dispersed around a part, and air removed from reinforcing material. Spiral tube can be used as resin or vacuum channel.

SPIRAL TRAP



GFM-1STRP-YW



YELLOW
AND
WHITE



8/10 mm | 09/12 mm
12/14 mm | 14/17 mm
Customizable



25 | 50 | 100 m
Customizable



100°C

RESIN FLOW MEDIA



GFM-1STRP-GW



GREEN
AND
WHITE



8/10 mm | 09/12 mm
12/14 mm | 14/17 mm
Customizable



100 m
Customizable



100°C



GFM-1STRP-BK



GREEN
AND
BLACK



12/14 mm



50 m



100°C

SPIRALTRAP is a vacuum infusion system consisting of a spiral wrap, wrapped in a special resin infusion net. Their union guarantees a better air/resin distribution and avoids excessive adherence as well as breaking the vacuum bag during the infusion process.

GFM-1BRK-RESIN-PP-100



TRASLUCENT
WHITE AND
RED



09/12 mm
12/14 mm



100 m
Customizable

Infusion system easy to remove thanks to a peel ply fabric combined with spiral wrap to help resin flow.

RESIN FLOW MEDIA

TUBULAR MESH



GFM-1TM004-OR0715-500



ORANGE



Max. 110°C



7 / 15 mm

GFM-1TM004-YL4060-300



YELLOW



Max. 110°C



40 / 60 mm

GFM-1TM004-WH2050-500



WHITE



Max. 110°C



20 / 50 mm

Tubular extruded mesh is used to speed up the flow of the resin inside the vacuum bag, allowing the mixture to reach the outermost points of the mold in infusion processes. Each braid in different size and flow rate, can ensure an increase in speed in the production of a composite product adaptable to the size of the mould and process needs.

GFM-1FLOWCHANNEL



GREY



50 | 100 mm



100 m



4 mm



Max.

80°C

GFM-1FLOWCHANNEL is a flexible composite resin flow channel in 100mm wide strips. It consists of a three-dimensional spacer matting, made from polypropylene monofilaments, pre-formed in a zig-zag configuration and wrapped in a non-woven sleeve.

GFM-1MESHCL



TRASLUCENT



43 | 45 | 98 mm



25 m



Max.

185°C

The resin tape is a flow media which optimizes the vacuum infusion process (VIP). The vacuum infusion process is used for the manufacturing of composites. The advantages include easy handling and fixation, no adhesive tape necessary, fits well on curved components.

RESIN FLOW MEDIA

GFM-1RESININFULINE-10



WHITE



100 mm



25 m



Max.

60°C

GFM-1RESININFULINE-10 is a flexible three-dimensional matting made from polyester monofilaments. The matting is preformed in a ZigZag pattern. The extremities of the matting are enclosed in two strips of spunbound - non-woven fabric to protect the film from the sharp edges. Resin infuline is used as a flow medium in resin infusion process.

RESIN BRAKE LINE

GFM-1STOPT-W100-25G



SKY BLUE /
WHITE AND
RED



100 mm



25 m



Max.

120°C

GFM-1STOPT-W100-25G is a resin brake system which includes a mesh braid, resin brake and peel ply to be applied to the outer edge of the infusion mould thus preventing waste and chocking of the vacuum system.

GFM-1STOPT-W100-25



WHITE



110 mm



25 m



Max.

120°C

GFM-1STOPT-W100-25 is a resin brake system which includes a mesh braid, resin brake and non-woven fabric to be applied to the outer edge of the infusion mould thus preventing waste and chocking of the vacuum system.

GFM-1STOPR-B100-25G



WHITE
AND SKY
BLUE



100 mm



25 m



Max.

90°C

GFM-1STOPR-B100-25G is a resin brake combination (spiral hose, Resin brake and release film P31) made to prevent it from sticking to the flange as well as bonding to the laminate. The retention capabilities of the micro-fibre eliminates the risk of resin breaching the vacuum system.

RESIN BRAKE LINE

GFM-1STOPB-W100-25G



WHITE



100 mm



100 m



90°C

GFM-1STOPB-W100-25G features a spiral hose sewn into an advanced core. Placed on the outer edge of the mould it provides even vacuum distribution and acts as a resin brake, thus preventing unnecessary resin waste and chocking of the vacuum system.

GFM-1VRMEMBRANE-150-120



TRASLUCENT



150mm



120 m



100 °C

VR MEMBRANE is multi-layer solution designed to apply vacuum anywhere on the component preventing resin leaking into vacuum supply. In addition to optimizing the vacuum process the membrane significantly reduces the risk of dry spots.

SEALANT TAPES

GFM-1BT120 / GFM-1BT205 / GFM-1BT220



				 Max.	
BLACK	3 mm 1,5 mm 3 mm 3 mm 2 mm	9 mm 10 mm 10 mm 12 mm 10 mm	15 m 22 m 15 m 15 m 22,5 m	130°c	
	YELLOW	3 mm 3 mm	10 mm 12 mm	15 m 15 m	205°c
	DARK GREY	3 mm	10 mm	15 m	220°c

Consists of a high-performance butyl sealing tape. These preform tapes have been designed for sealing in both “bag to tool” and “bag to bag” applications. With aggressive initial tack, this butyl sealing tape maintains an air-tight seal during the cure cycle and the tool clean from the strip, with virtually no trace of residue.

GFM-1ALUBT-GY50X08



				 Max.
GREY	8 mm	50 mm	10 m	228°c

High performance sealant tape reinforced with aluminium foil guarantees high tack on all common building materials even at low temperatures, resistant to ageing and UV-rays.

ADHESIVE TAPES

GFM-1FTAPE-PTFE



BROWN



89 μ m



25 | 50 mm



33 m



260°C

GFM-FTAPE-PTFE is a PTFE film coated with silicone adhesive. Ideal for many applications including temporary tool surface repair, sealing of split moulds and where release in tight angles is required. Excellent release properties and resistance to high temperatures.

GFM-1FTAPE-G



GREEN



60 μ m



25 | 50 mm



66 m



228°C

Green high temperature tensile polyester film, coated with a fully cured silicone adhesive suitable for autoclave curing process.

GFM-1FTAPE-B



BLUE



55 μ m



25 | 50 mm



66 m



220°C

Blue high temperature tensile polyester film, coated with a fully cured silicone adhesive suitable for autoclave curing process. Softer and stretchier compared to GFM-FTAPE-G

ANCILLARIES

GFM-1PLST-W350



WHITE



350 g

GFM-PLST-W350 is a medium hardness modelling clay ideal for rounding off the sharp edges of a mould and sealing joints between moulds and additional components. Suitable for any type of infusion process.

GFM-1-M18-600



TRASLUCENT



600 ml

GFM-1-M18-600 repositionable spray glue is made for vacuum infusion and RTM processes and guarantees optimum tack during the mouldin. The glue does not interfere with the quality and integrity of the lamination. Among its features are: holding of hybrid materials and low drying shrinkage.

GFM-1GFTAPE-50



WHITE



75 g/m²



50 mm



90 m



180°C

This tape is used to hold dry fabrics in place for your infusion process as the structure will not inhibit resin flow.

ANCILLARIES

GFM-1LDPEP



				 Max.
TRASLUCENT	1,0 mm 1,2 mm 1,5 mm 1,5 mm	8x10 10x12 12 x14 mm 12,5 x15 mm 13 x 16 14 x17 15,5 x19 mm 17 x 20 mm	100 m 100 m 100 m 300 m	100°c

Traslucent pipe used as resin distributors or vacuum lines. (max working pressure 10 bars).

GFM-1LCON / GFM-1TCON GFM-1ICON / GFM-1VV



		 Max.
BLACK	For pipe 10/12 12/14 12,5/15 13/16 14/17 17/20	100°c

Range of connectors and valves for joining and connecting hoses or other auxiliaries which make up the vacuum line. Perfectly compatible with other fittings and auxiliaries.

GFM-1INP



		 Max.
BLUE GREEN ORANGE YELLOW	For pipe 10/12 12,5/15 13/16 14/17	120°c

Infusion plugs for vacuum and resin supply lines of different diameters. The round edged of the plugs protect the vacuum bags from damages. Two options are available: spiral base to be used with multiple spiral systems; flat base to be used on resin feed lines.

ANCILLARIES

GFM-1A101-TLV



ALUMINIUM



6,25 mm coupling
60 mm base diameter



10 Bar



210°C

Twist lock valve that is placed through the vacuum bag, the flat base and twist lock design make it easy to install to ensure good seal and safe vacuum bag. Maximum service temperature 210°C

GFM-1A101-THV



ALUMINIUM



6,25 mm coupling
60 mm base diameter



10 Bar



210°C

Threaded vacuum link is suitable for the most varied types of productive processes of composite articles, perfectly compatible with our line of quick release couplings. The ring lock makes it sturdy and reliable in all working conditions.

GFM-1A101-SIDEVALVE



ALUMINIUM



6,25 mm coupling



10 Bar



210°C

Side edge vacuum valve which allows identical expansion at the top and bottom.

ANCILLARIES

GFM-1A102



GREEN



9,5 mm internal
17,5 mm external



1 m to 30 m
Customizable



10 Bar



250°C

High temperature platinum cured silicone hose, reinforced with fiberglass, manufactured to the highest standards, from specially developed material. Designed for minimal heat shrinkage and no free silicone particle contamination. GFM-A102 is extremely durable and flexible, easy to handle and safe, with no sharp features thus preventing cuts to personnel or materials.

GFM-1A103-MSK-VT / GFM-1A103-FSK-VT



STEEL



6,35 mm
male and female



12 Bar



210°C

Quick release couplings designed for use in autoclaves and ovens, high temperature tooling and other related equipment. The coupling come with viton seals and are reusable. The internal shut-off valve ensure the vacuum is preserved even after the vacuum hose has been disconnected.

GFM-1A104-ECONOGAUGE



BLACK



6,25 inch



0 - 1 Bar



-20°C to 60°C

The GFM-1A104-ECONOGAUGE is an economic vacuum gauge with a -1 to 0 bar vacuum pressure range that comes with a black plastic casing and copper 1/4" male BSP thread. Suitable for use during vacuum infusion process.

ANCILLARIES

GFM-1A104-STEELGAUGE



STEEL



6,25 inch



0 - 1 Bar



-20°C to 60°C

GFM-1A104-STEELGAUGE is a shock resistant glycerine filled vacuum gauge with a -1 to 0 bar vacuum pressure range comes with a steel casing and copper 1/4" male BSP thread. The gauge can easily display whether a bag or mould is leaking and show the rate of vacuum decay.

GFM-1EXT



STEEL



S
M
L

10 mm
10 mm
20 mm



22x22 mm
45x45 mm
45x37 mm

Complete kit extractor plus handle, help vacuum infusion process, high quality and stainless steel. Each kit combines extractor and a t-shaped handle dimensions according to size (small/medium/large).

GFM-1TRAP



STEEL



9 L
15 L



201 / 205 mm
251 / 255 mm



295 mm
310 mm



Max.

90°C
90°C

Is a vacuum container designed to simplify and improve the resin infusion process. Completely made of stainless steel AISI 304 with a white polyethylene top. The Resin Trap is equipped with a vacuum gauge and connections. Four Quick-fastening systems are designed to guarantee watertight sealing.

ANCILLARIES

GFM-1DCLAMP



STEEL

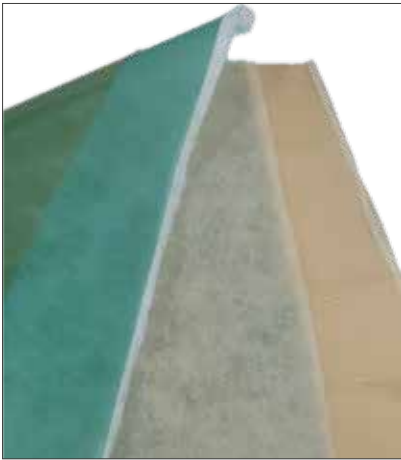
Dolphin infusion hose clamps are professional locking pliers for use in resin infusion applications. Hoses can be clamped to prevent the flow of resin. These fully adjustable pliers feature a non-slip grip, making for an ergonomic design.



CUSTOMIZED KITTING SOLUTIONS

VACUUM BAGGING KITTING SOLUTION

- **ALL IN ONE KIT**



All-in-one pre-made kits are designed to simplify your vacuum bagging process. These can include vacuum bagging films, release films and bleeders cut-to-size, welded or sealed with butyl sealant tape following customer requirements

- **WELDED VACUUM BAGGING READY TO USE**

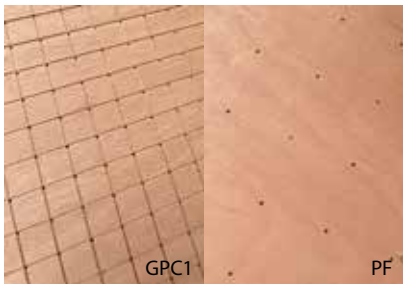


Welded vacuum bagging films are ready-to-use solutions designed to save time and money, reduce waste and increase productivity. Our ready-to-use solutions can be made with low, medium and high temperature films of different sizes kitted as foil, open and closed tubes according to customer requirements.

CORE MATERIALS

KITTING SOLUTION

• MARINE PLYWOOD

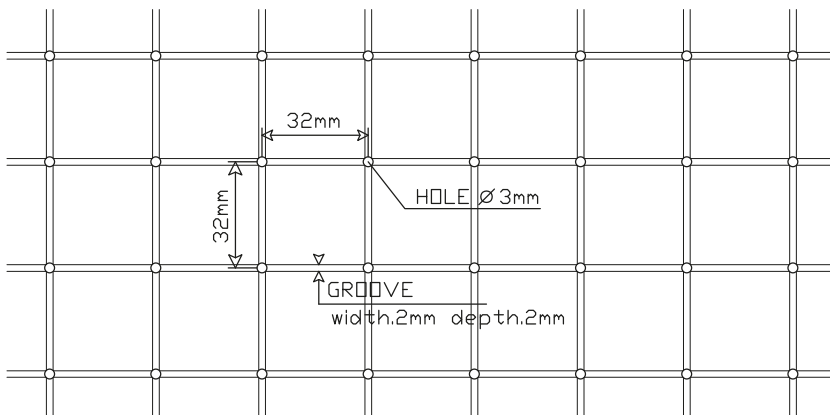


Multi-layer panel consisting of an odd number of strips of okoumè wood arranged in a cross-grain pattern and glued together using melamine glue. Several types of finishing are possible for use in the production of composites, both with hand-lamination or infusion process.

2500 x 1220 mm | 3,05 m²

5 | 10 | 15 | 20 | 25 | 30
35 | 40 mm

FINISH	DESCRIPTION	SPACING (mm)	DIAMETER (mm)
GPC1	GROOVE + PERFORATION	32 x 32	Ø 3
PF32	PERFORATION	32 x 32	Ø 3
PF64	PERFORATION	64 x 64	Ø 3
PF96	PERFORATION	96 x 96	Ø 3

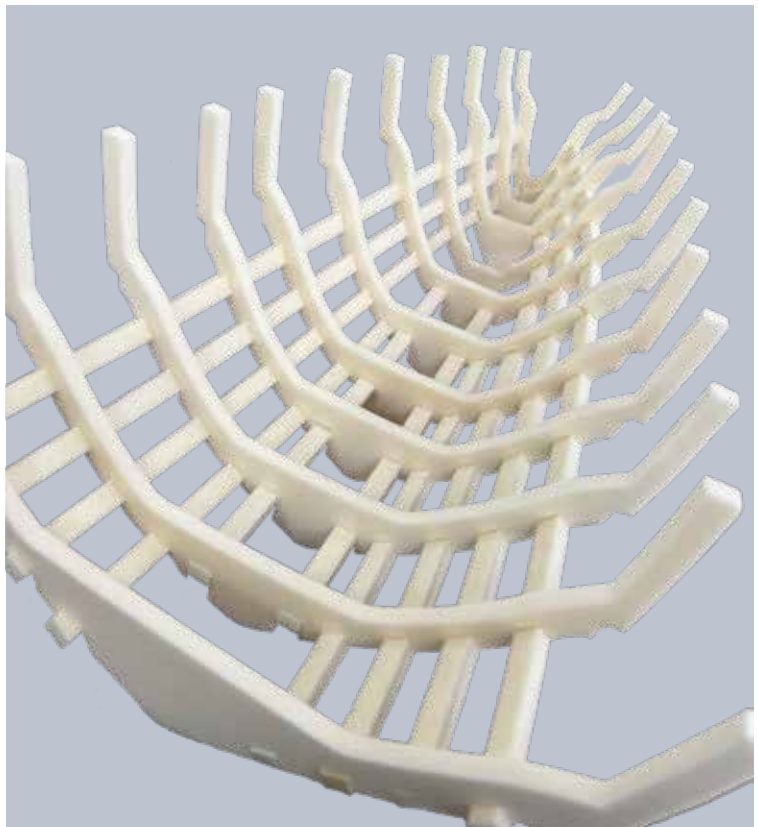
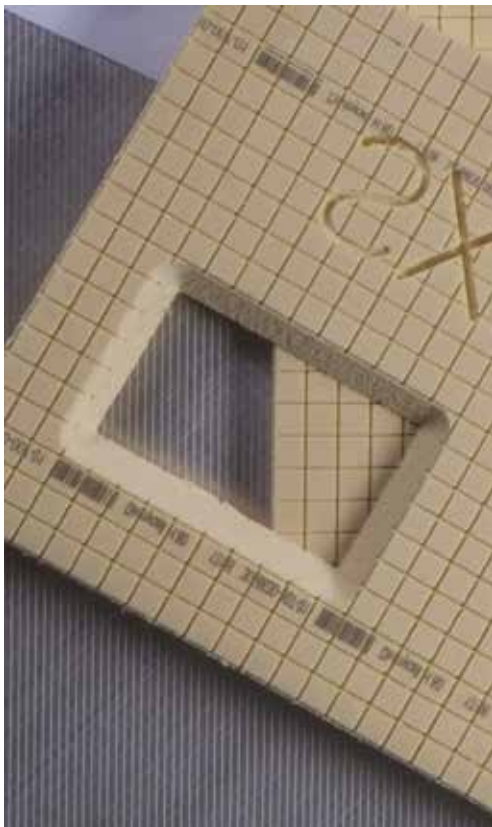


Grooving specifications: longitudinal and trasversal grooves 2 mm deep and 2 mm wide, arranged in a diamond-shaped grid with a spacing of 32 mm.

CORE MATERIALS KITTING SOLUTION

- POLYURETHANE AND PVC KITTING CENTRE**

Ge.Fim kits are a custom-made set of core elements. The kit can consist of simple pre-cut core panels, or complex 3D shapes made with CNC machines. Each piece is pre-cut and then numbered to fit precisely into its designated place within the mould. Kits are designed based on the client's application's requirements. Our kit engineers take geometry and your manufacturing process into account when designing each kit. Manufacturing processes can be streamlined to improve the quality of composite applications with pre-cut parts (kits). By eliminating the on-site cutting of sheets, manufacturing time is reduced and the same goes for labour and material costs. Our kitting facility can cost effectively machine foam core materials in all densities and thicknesses.



MOULDS AND MODELS DIVISION



GE.FIM has an internal fiberglass moulding division which produces master plugs. Thanks to the recent investments and know how, GE.FIM is able to offer support for the design and production of master plugs and moulds for composite materials for a number of different sectors such as marine, wind energy and automotive, shaping even the most complex moulds, to obtain the required characteristics. The company can supply custom made moulds in fiberglass ready for waxing, according to the layering indicated by customer.

Particularly appreciated by customers in the nautical world is the ability to offer a complete supply of plugs from a variety of materials and respond to countless customer requests, even the most complex ones.

Workable materials are many and are chosen directly with the customer based on the type of use:

- MDF
- POLYSTYRENE
- EPOXY PASTE
- POLIZENE
- DELRIN
- UREOL
- POLYETHYLENE

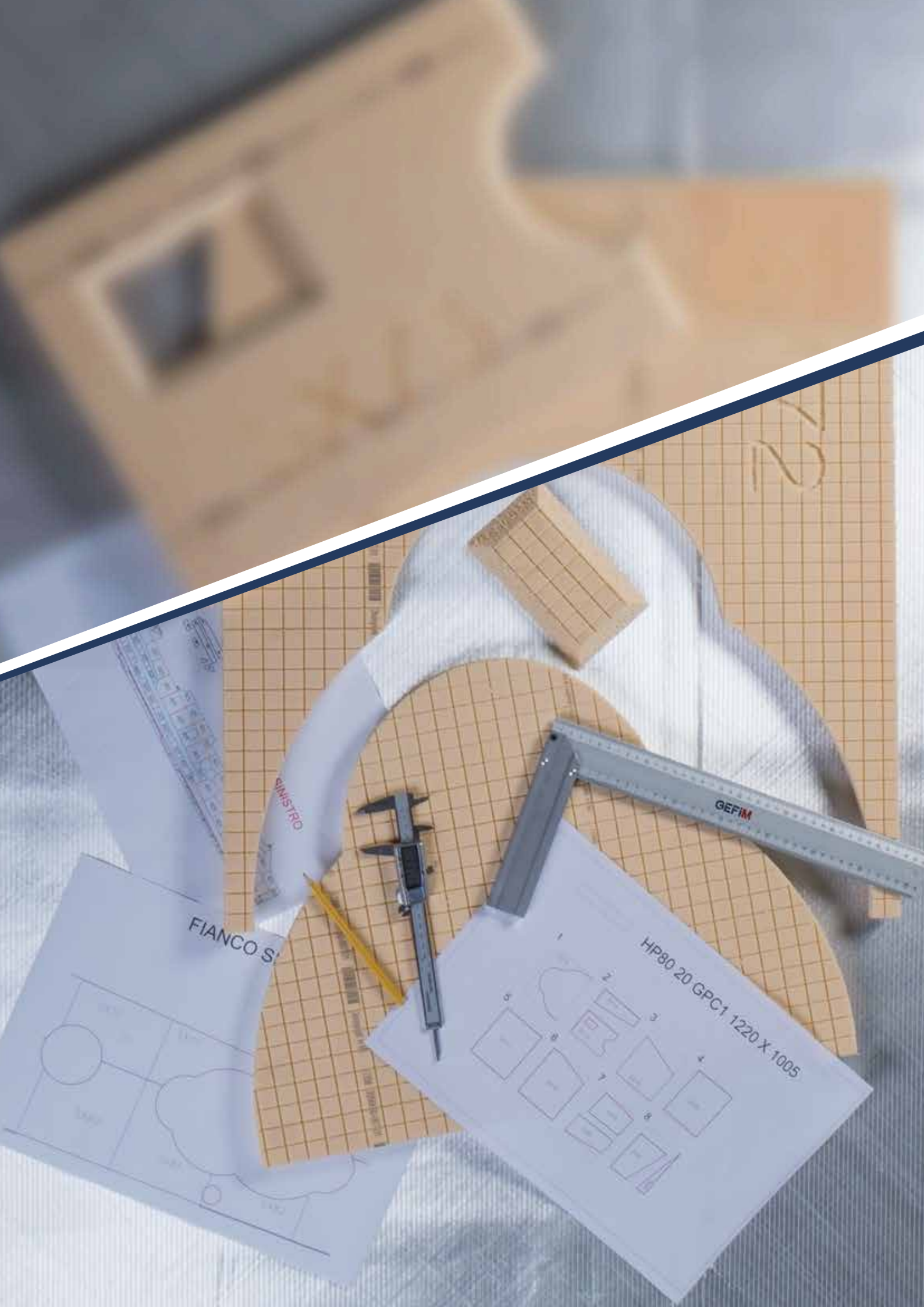


Fiberglass Plant

Via Brodolini 6
60012 Trecastelli (AN) Italy

Composites and Kitting Plant

Via del Piano 95
61022 Talacchio (PU) Italy
Phone: +39 0721 1722260



FIANCO S

HP80 20 GPC1 1220 X 1005

GEFIM