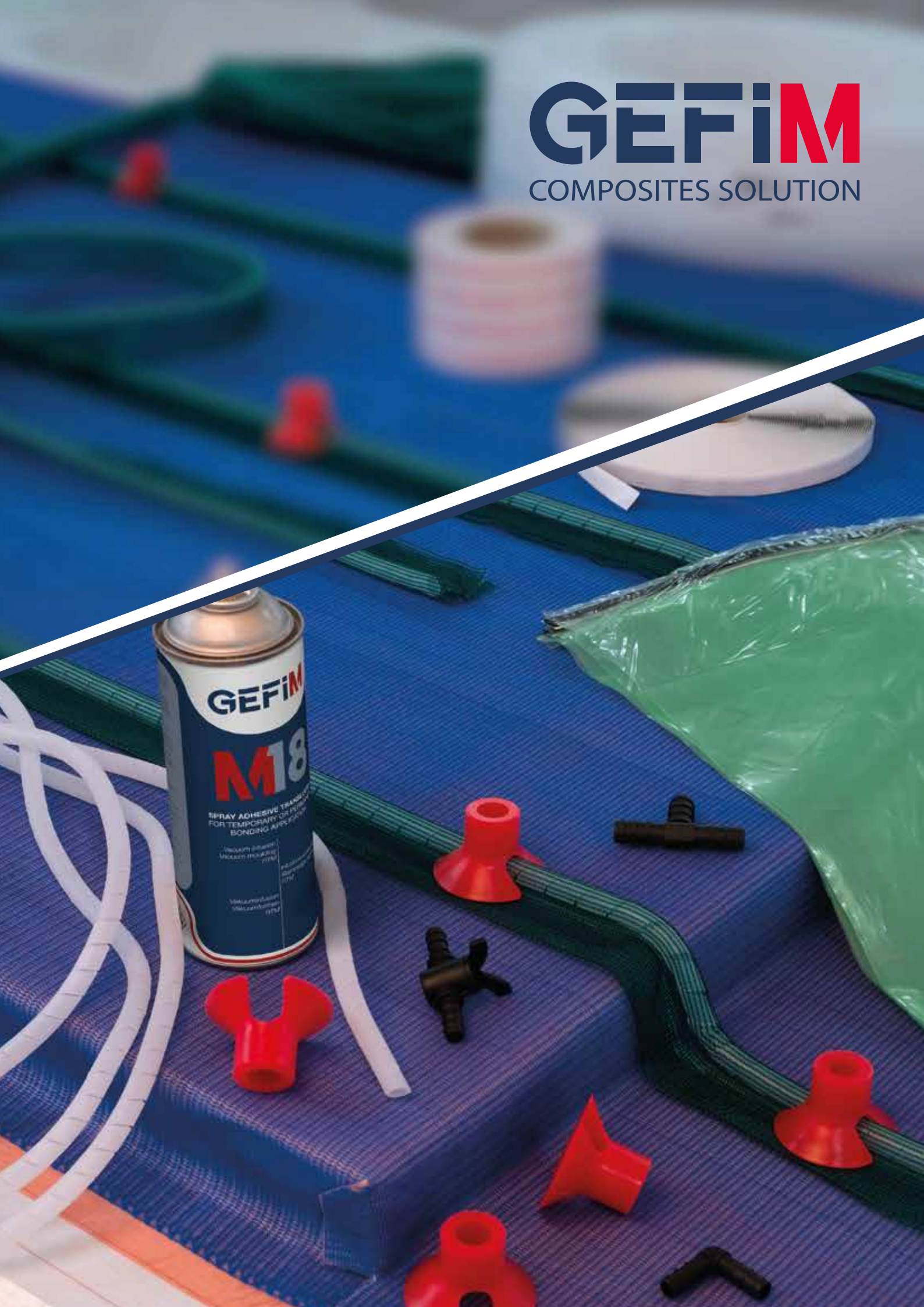


GEFiM

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.

GEFiM

COMPOSITES SOLUTION

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

Gussetted
Centrally slit

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

GEFiM

BAGGING FILMS

• **LOW** TEMPERATURE

GFM-1VB051-GR

GREEN	75 cm - 42 m customizable	75 µm | 80 µm	Max. 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.

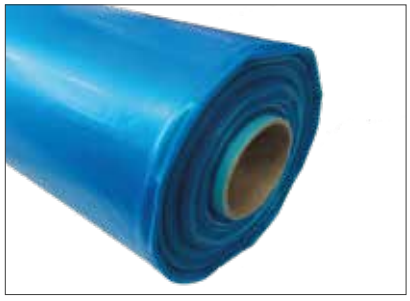
• **MEDIUM** TEMPERATURE

GFM-1VB001-OR

ORANGE	86 - 3500 mm tube or V Sheet 2400 - 6000 mm gusseted.	50 µm | 65 µm 75 µm	Max. 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 µm | 65 µm 70 µm | 75 µm	Max. 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

GEFiM

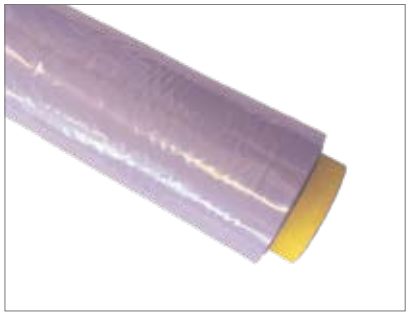
BAGGING FILMS

GFM-1VB601-YL

YELLOW | Up to 8.5 m | 50µ | 65µ | 75µ | Max. 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 | Max. 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 tubolar
2000 - 4000 mm V-sheet | 50 µm | Max. 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 µm

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

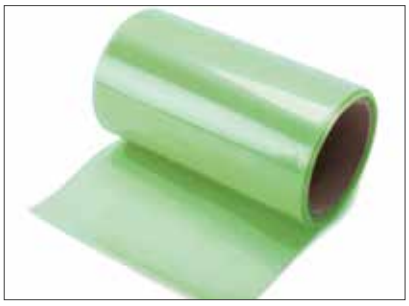
Up to 2000 mm Tube
2000 - 4000 mm V-Sheet

50µ | 75µ

Max.
212°c

GFM-1VB731-OR is a sturdy yet soft multy-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 poyester, 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 µm | 75 µm

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.

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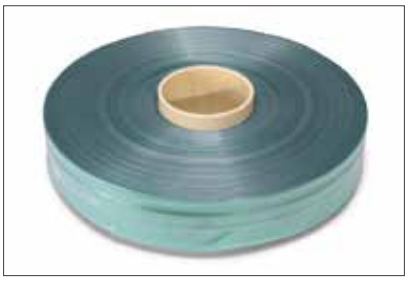
• **SELF RELEASE** BAGGING FILMS

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.

• **DEBULKING** FILMS

GFM-1R761-GALETS

PINK | 1500 mm sheet width | 50 µm | Max. 158°c

GFM-1R761-GALETS is a pink coloured release film designed for resin infusion and prepreg applicaton. 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-R102-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.

• **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

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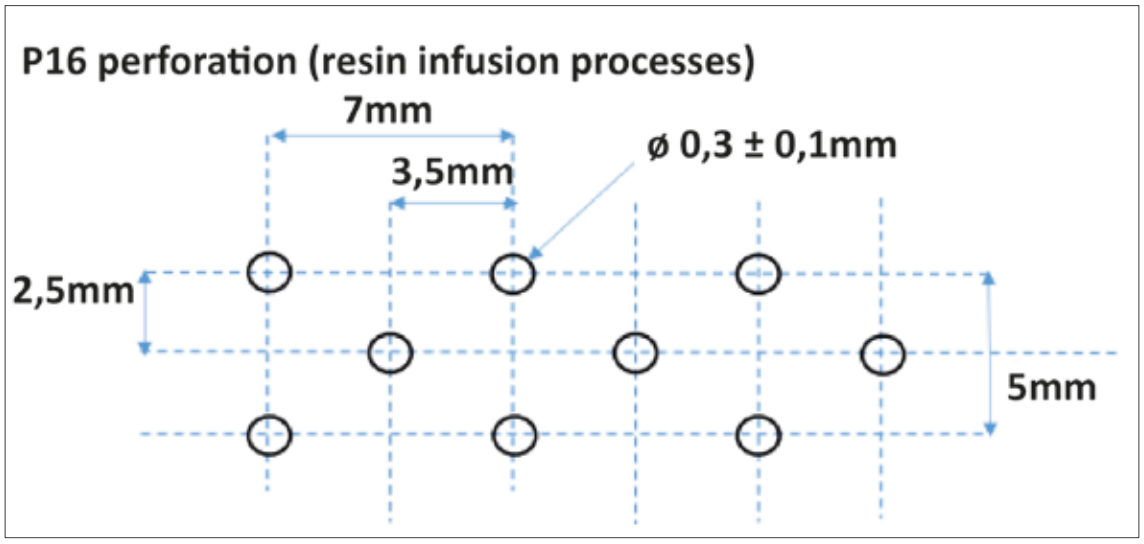
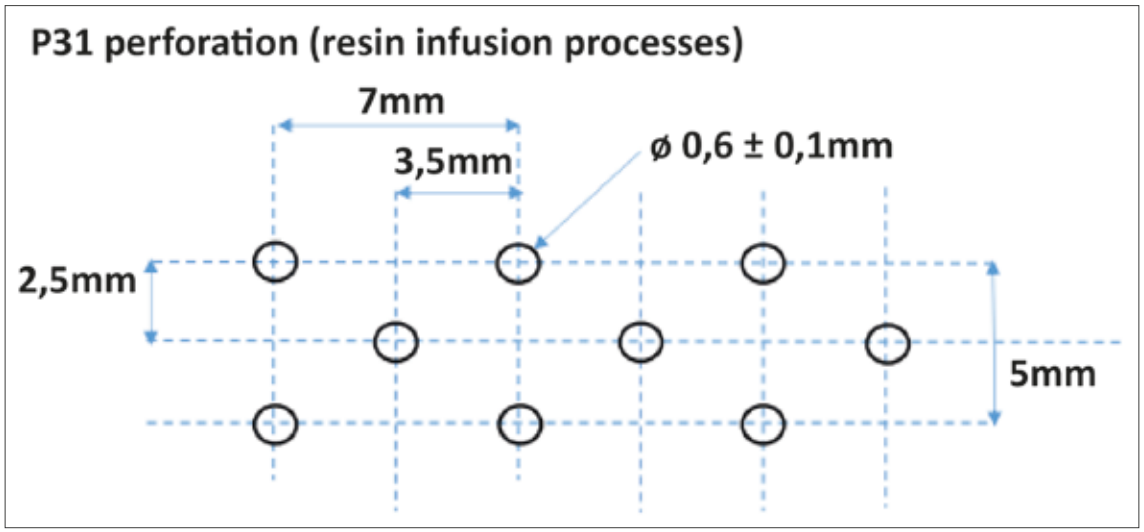
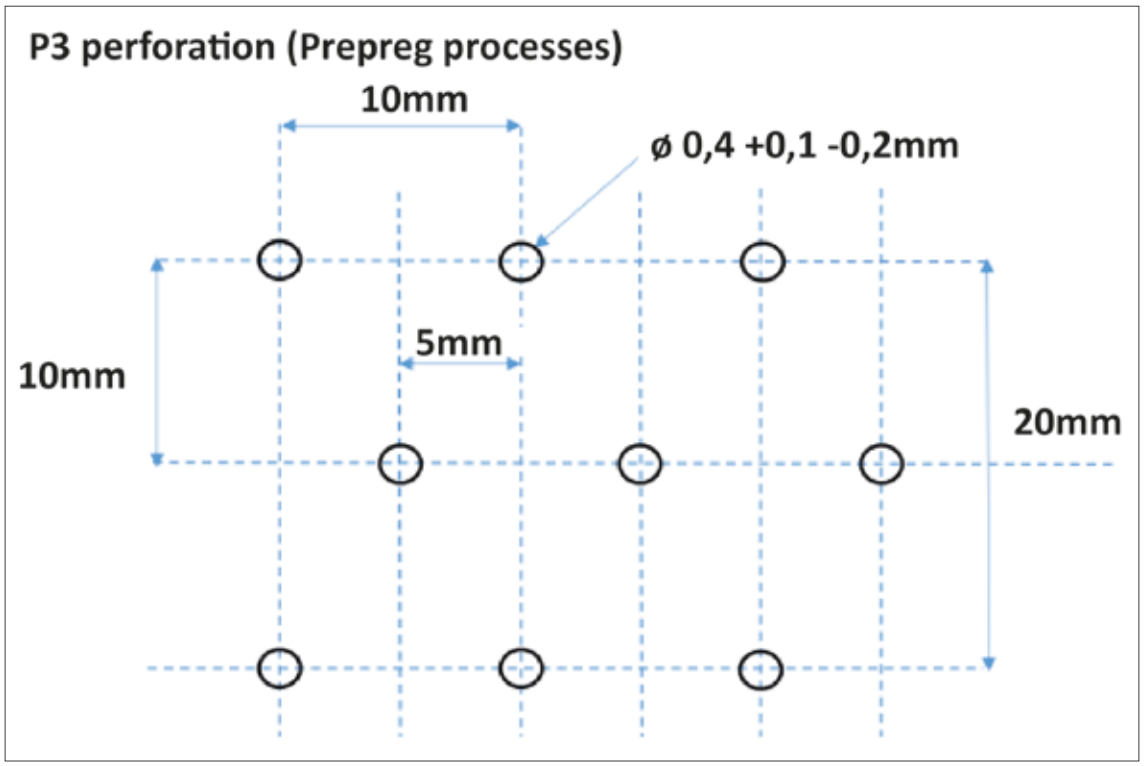
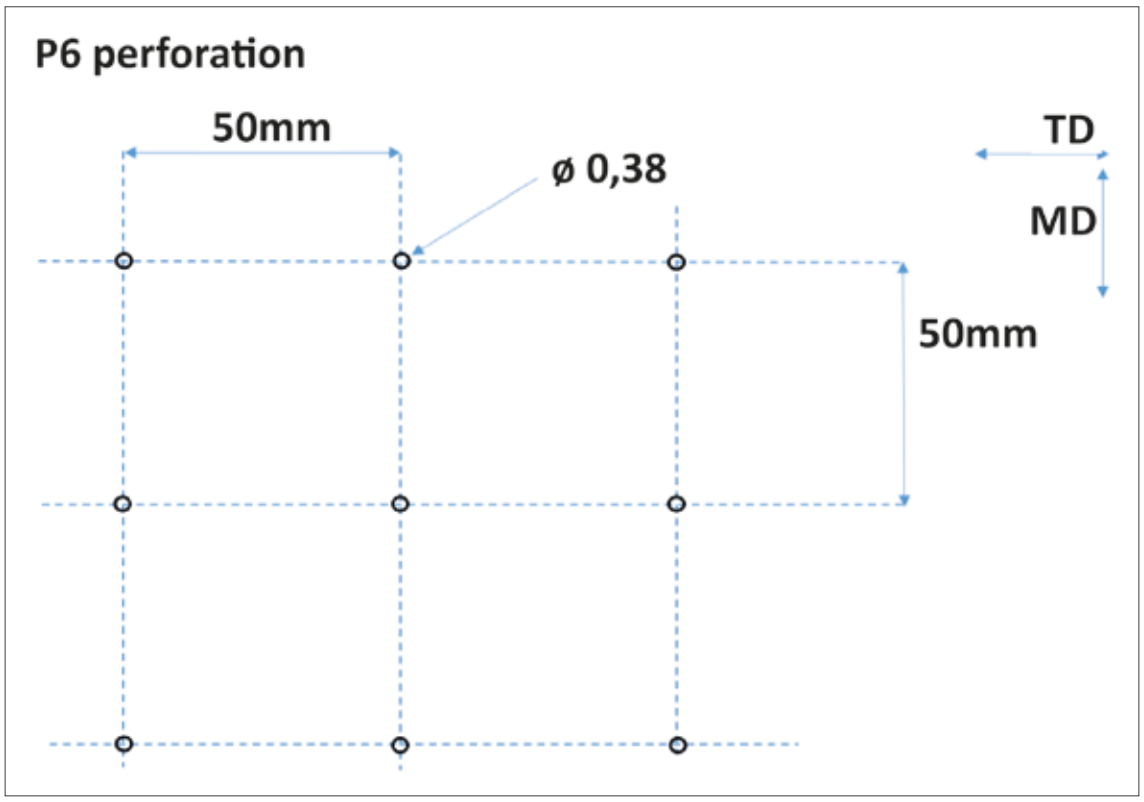
• **RESIN INFUSION PROCESS** PERFORATIONS





• **OVEN AND AUTOCLAVE PROCESS** PERFORATION





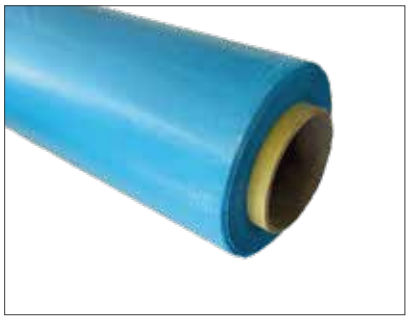
• **LOW** TEMPERATURE

GFM-1R002-OR

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

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



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

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

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

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

YELLOW	P3 P31 P16 P6 NP	1500 mm	250 m	30 µm | 45 µm 50 µm	Max. 150°c

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.

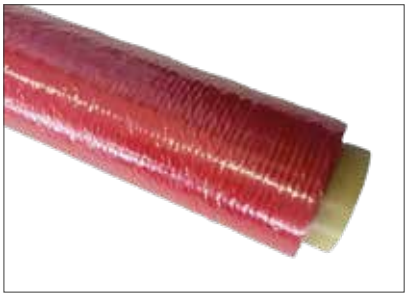
• **HIGH** TEMPERATURE

GFM-1R006PMP-PK

PINK	P3 P6 NP	1500 mm	250 | 500 m	30 µm	Max. 200°c

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



RED	P3 P6 NP	1220 mm 1530 mm	305 m 153 m	13 µm | 20 µm 25 µm	Max. 260°c

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.

GEFIM

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

CLEAR TRANSPARENT	4000 mm	150 m	10 µm	Max. 125°c

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

GFM-1MF831-CL18GS1700-100

CLEAR TRANSPARENT	1700 mm	100 m	30 µm	Max. 180°c

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

GFM-1MF302-GR17VS2000-100

GREEN	2000 mm	100 m	17 µm	Max. 130°c

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.

GEFiM

THERMOSHRINKING FILMS

GFM-1SF052-W

WHITE	6 - 12 m	customizable	200 | 250 300µm	Max. 80°c

GFM-1SF052-W is a white coloured high puncture resistance LDPE thermoshrinking 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 al least 12 months in Central Europe weather conditions. This product is a coextrution of virgin raw material (no recycled material used).

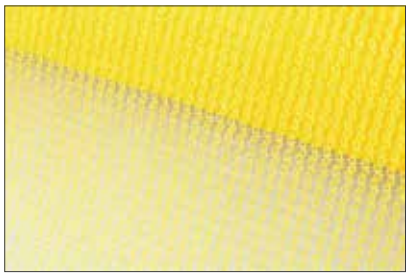
GFM-1SFTAPE-72X33-W

WHITE	72 mm	33 m	230 µm	Max. 80°c

GFM-1SFTAPE-72X33-W is a white coloured heavy duty polyethylene tape, single coated with a syntetic 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.

GEFIM

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

COMBI-**MESH**

TWO-IN-ONE

GFM-1DMP31-YL160

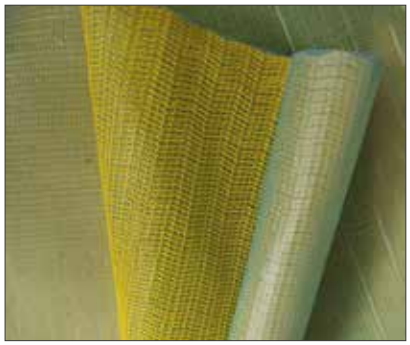
YELLOW AND RED	160 gr/m²	1450 mm	100 m customizable	120°c

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.

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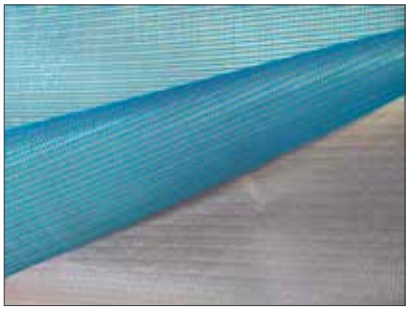
COMBI-**MESH**

HEAT SEALED COMBI MESH

GFM-1DMP31-YL140

YELLOW AND RED	140 gr/m²	1450 mm - 2000 mm	100 m customizable	120°c

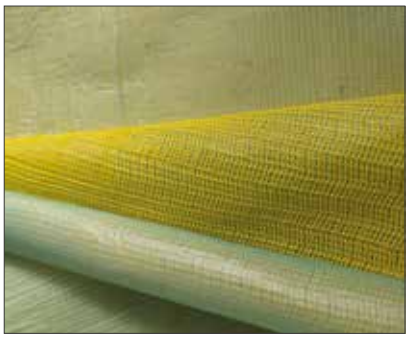
LOW FLOW



GFM-1DMP31-BL170

BLUE AND ORANGE	170 gr/m²	1450 mm - 2000 mm	100 m customizable	120°c

MEDIUM FLOW



GFM-1DMP31-YL210

YELLOW AND SKY BLUE	210 gr/m²	1450 mm - 2000 mm	100 m customizable	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.

GEFiM

THREE-IN-ONE

GFM-1TRBL-295PP1520-100

WHITE BLUE AND RED	295 gr/m²	1520 mm	100 m customizable	120°c

Our three-in-one combo provides highly conformable resin distribution and persistant 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.

GEFiM

COMBI-**BLEEDER**

GFM-1VACUTECH

	g/m²				Max.
ORANGE AND WHITE	customizable	25 µm	1500 mm	50 | 100 m	120°c
SKY BLUE AND WHITE	customizable	28 µm	1500 mm	50 | 100 m	127°c
YELLOW AND WHITE	customizable	30 µm	1500 mm	50 | 100 m	150°c

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

	g/m²			Max.
WHITE	100 gr/m² 120 gr/m² 150 gr/m² 230 gr/m² 300 gr/m² 400 gr/m²	1500 mm 1500 mm 1500 mm 1500 mm 1500 mm 1500 mm	100 m 100 m 100 m 50 m 50 m 50 m	200°c 200°c 200°c 200°c 200°c 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

	g/m²			
WHITE	55 gr/m² 80 gr/m² 105 gr/m² 125 gr/m²	2 mm 3 mm 4 mm 5 mm	1000 mm 1000 mm 1000 mm 1000 mm	80 m 50 m 40 m 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 absorbition with good tensile strength when wet.

GEFiM

PEEL PLY

GFM-1PA6G68

GREEN

68 gr/m²

75 - 150 mm

100 m
customizable

Max.
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

Max.
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 m

1000 mm

Max.
204°c

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

GEFiM

PEEL PLY

GFM-1PA6-ADH85

NEW !

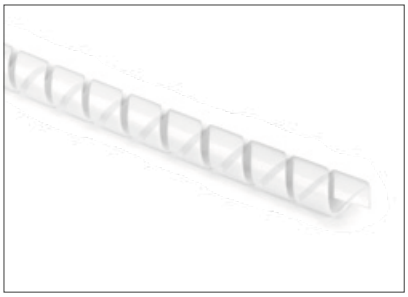
WHITE AND RED	123 gr/m² customizable	50 - 1520 mm	100 m	180°c
	g/m²			Max.

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.

GEFiM

RESIN FLOW MEDIA

SPIRAL WRAP



GFM-1SPW-W

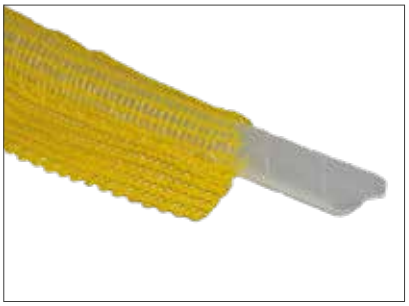
TRANSLUCENT	8/10 mm | 09/12 mm 12/14 mm | 14/17 mm Customizable	25 | 100 m Customizable	Max. 100°c

GFM-1SPW-B

BLACK	12/14 mm	50 m	Max. 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	Max. 100°c

GEFiM

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	Max. 100°c

GFM-1STRP-BK

GREEN AND BLACK	12/14 mm	50 m	Max. 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.

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-1MESHCNL

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.

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 reventing 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.

GEFiM

GFM-1STOPB-W100-25G

WHITE	100 mm	100 m	Max. 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	Max. 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 mantains 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.

GEFIM

ADHESIVE TAPES

GFM-1FTAPE-PTFE

NEW !

BROWN	89 µm	25 | 50 mm	33 m	Max. 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 µm	25 | 50 mm	66 m	Max. 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 µm	25 | 50 mm	66 m	Max. 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

GEFIM

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 optium 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

Max. 180°c

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

GEFiM

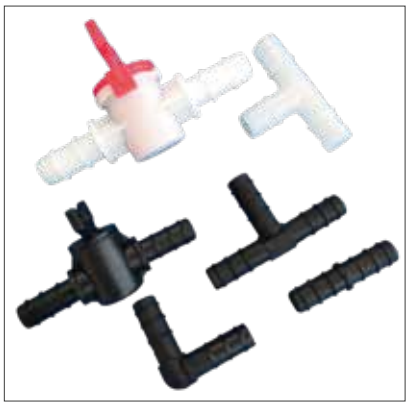
ANCILLARIES

GFM-1LDPEP

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	Max. 100°c

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

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



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

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

GFM-1INP

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

GEFiM

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-1A1O2

GREEN

9,5 mm internal
17,5 mm external

1 m to 30 m
Customizable

Max. 10 Bar

Max. 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

Max. 12 Bar

Max. 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.

GEFiM

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 vaccuum gauge with a -1 to 0 bar vaccuum 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.

GFM-1POLYSTAPLES-14

WHITE | 12,5 mm | 14 mm

GFM-1STAPLES-14 are non metallic staples made from a composite blend of polymer and fiberglass. They are suitable for any application where other fastners cannot be used.

GFM-1STAPLE-GUN-81P

BLACK AND BLUE

Manual staplers are ergonomically designed for comfort, ease of use and top performance. Extremely fast, powerful, lightweight, well-balanced and rugged for demanding industrial applications.

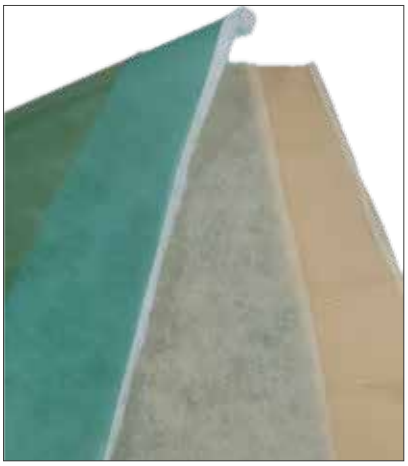
GEFiM

COMPOSITES SOLUTION

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.

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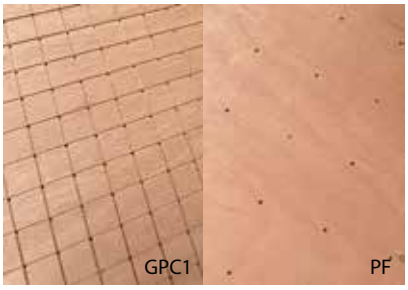
CORE MATERIALS
KITTING SOLUTION

• MARINE PLYWOOD

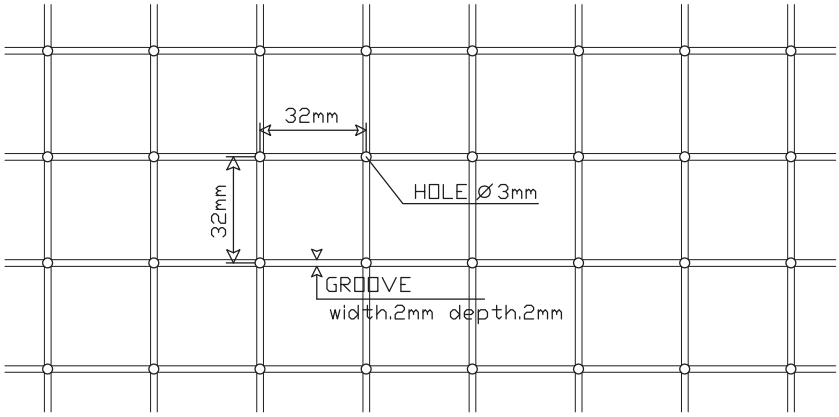


2500 x 1220 mm | 3,05 m²

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

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

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

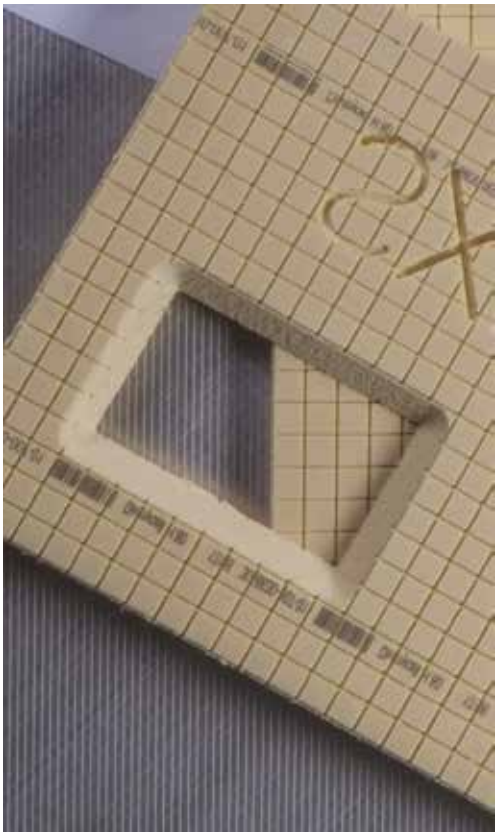


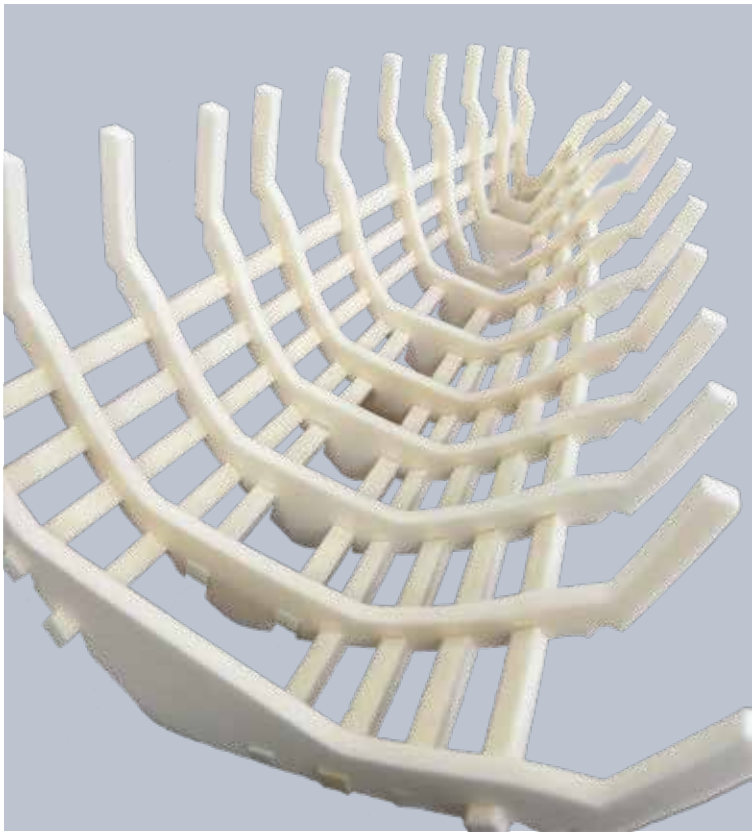
Grooving specifications: longitudinal and trasversal grooves 2 mm deep and 2 mm wide, arranged in a diamond-shaped grid with a spacing of 32 mm.

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.





GEFiM

MOULDS AND MODELS DIVISION

GE.FIM has an internal fiberglass moulding division which produces master plugs. Thanks to the recent investiments 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

GEFiM

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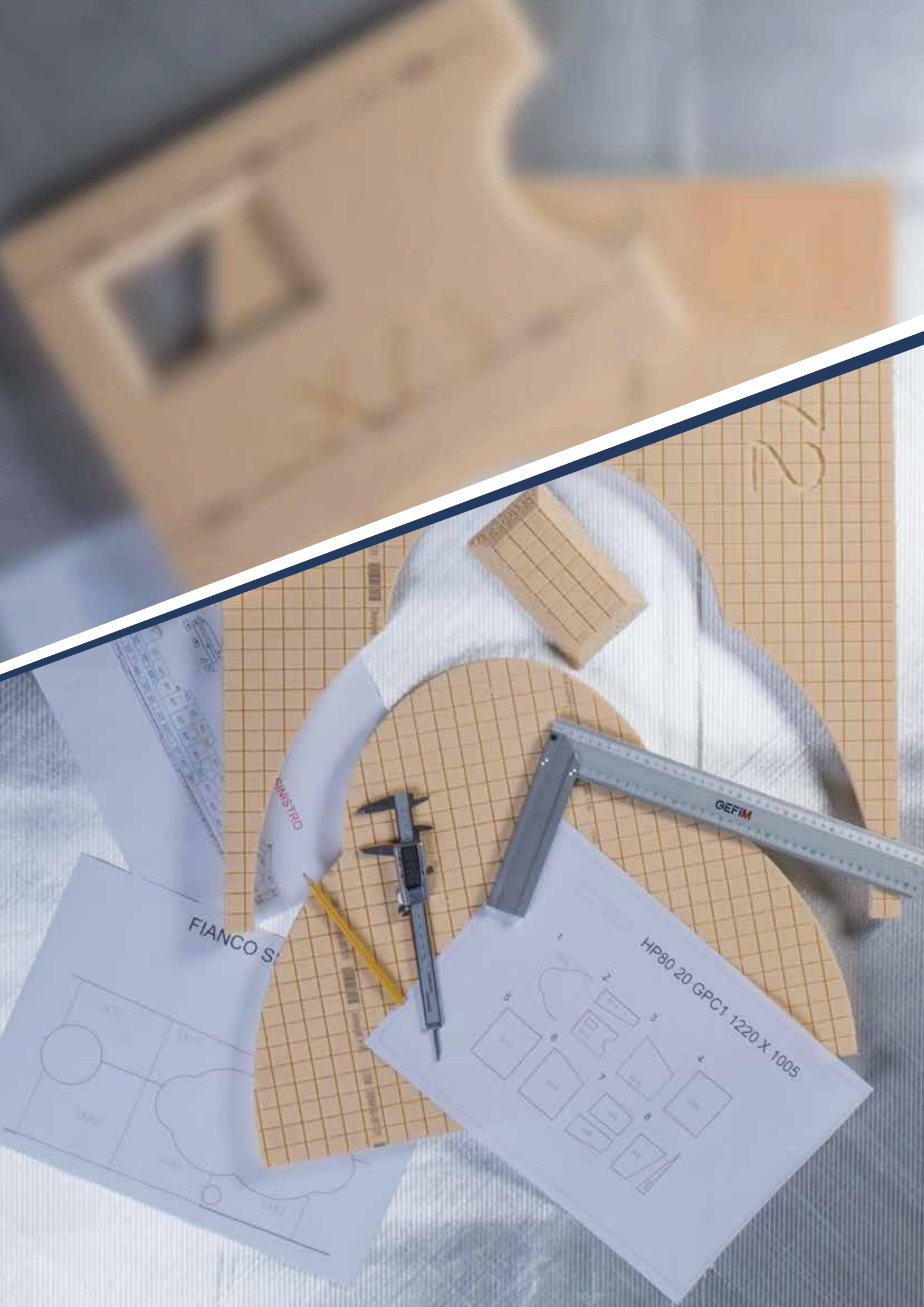
www.gefim-compositi.com


SINISTRO
GEFIM
HP80 20 GPC1 1220 X 1005