

PULTRUSION WITH GRAPHENE

PRODUCT CATALOGUE

Graphenano Group







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THE COMPANY

Graphenano Composites are the industry leader in the development of **graphene composites** that improve traditional materials in terms of strength and resistance, lightness, flexibility, bactericide properties, waterproofing, insulation and durability. A new generation of composites that opens the doors to an era of applications (I+A).

Graphenano Composites was born from a collaboration between Graphenano and two other world-renowned Spanish companies in the field of composites, both with more than 25 years of experience. It also currently works in development with the University Miguel Hernández de Elche.

In the construction sector, Graphenano Composites has signed a *joint venture* with **Polymec**, company dedicated for more than 30 years to the manufacture of profiles of resin (polyester, vinylester, epoxy) reinforced with fiberglass to which, now, the graphene additive of Graphenano is incorporated.

The catalogue contains the advantages of incorporating graphene into this material as well as a list of profiles and other products from the company, grouped under the name **CompoSmart Graphene Composites.**

Graphenano Composites belongs to the **Graphenano Group** leader in the industrial-scale production of graphene.



OUR FACILITIES

Graphenano Composites is a constantly developing young company. The advancements in technology and the everdiversifying range of products favour the inclusion of new manufacturing lines within our facilities, which allows for the quick and efficient adaptation to all production demands. Furthermore, the facilities can grow to meet the storage and distribution needs of our clients.



RAW MATERIALS

Pultrusion with graphene

FIBREGLASS

Fibreglass is a material that is made up of many polymer filaments based on extremely fine silica. It is made by pouring molten glass through a piece with tiny holes. The resulting filaments solidify and maintain sufficient flexibility to be used as a fibre.

Its principal properties are its good thermal insulation; it is inert to acid and can withstand high temperatures. These qualities, alongside the low cost of its raw materials have led to its popularity for many industrial uses.

RESINS

Resins are synthetic liquid substances that give consistency to fibres in the process of pultrusion. Graphenano Composites works with the following synthetic resins altered with graphene additives:

- Polyester (orthophthalic and isophthalic)
- Vinylester
- Ероху

Each one gives a different characteristic to the final product, such as anticorrosive properties, rigidity or flexibility, insulation or flame-resistance and self-extinguishing properties, amongst others.

GRAPHENE

Graphene is strongest nanometric material known to man with a resistance two times than that of iron and that is harder than diamond, despite this its thickness oscillates between 1 and 10 carbon atoms. Due to it being so fine, it is considered a twodimensional material and the only one that is able to maintain its stability until the thickness of an atom.

It is practically transparent, elastic, a good thermal and electric conductor, so dense that helium gas cannot pass through it and has many other qualities such as the high mobility of its electrons or its bactericidal characteristics.

Graphene has incredible mechanical, electrical, chemical, magnetic and optical qualities. Furthermore, since it is pure carbon it is abundant in nature and ecological.

THE PULTRUSION PROCESS

Pultrusion is the continuous and automatic productive procedure of moulding thermostable plastic materials to obtain reinforced plastic moulds. It consists of dragging and standing the fibres impregnated with thermostable resins through a closed mould at a high temperature so that the polymerisation and the curing of the resin occurs inside. The internal geometry of the mould gives the final shape of the piece upon its exit.

Amongst its advantages, the ones that stand out are the high rigidity and consistency of results, its versatile forms, a high production speed and the possibility of obtaining great lengths, always with a great outside finish.



COMPARISON OF PROFILES FOR RAW MATERIALS

Comparison	Fibreglass graphene profiles (GFRP)	Steel A-42	Aluminium	Wood
Resistance to corrosion	Wide range of resistence to chemical agents.	Prone to oxidation attacks and corrosion.	Can suffer from corrosion.	Can suffer from decomposition when exposed to water or chemical agents.
Density	1.83 g/cm³	7.85 g/cm ³	2.7 g/cm³	0.51 g/cm ³
Electrical and thermic conductivity	Not an electrical conductor. Low thermic conductor.	Electric and Thermic Conductor.	Electric and Thermic Conductor.	Electric conductor when wet.
Resistance	High resistance/weight ratio.	High weight for equal resistance.	High weight for equal resistance.	Low resistance.
Impact resistant	Non-deformable. The glass material distributes the blow of the impact on the material.	Possible deformation upon impact blow.	Very deformable upon impact blow.	Clearly deformable under impact blow.
Wave transparency	Transparent to EMI/RFI transmissions.	Interferes with EMI/RFI transmissions.	Interferes with EMI/RFI transmissions.	Transparent to EMI/RFI transmissions.
Assembly	Lightweight for assembly and elevations.	Special assembly equipment.	Greater load than GFRP for assembly and elevations.	Lightweight for assembly and elevations.
Price	Low cost maintenance and installation.	Initial low cost. Additional maintenance cost greater than GFRP.	Material cost similar to GFRP. Maintenance costs higher.	Initial low cost. Additional maintenance cost greater than GFRP.
Colour and finish	Added pigments allow a wide range of colours to be available.	Steel must be painted to change the colour.	Silver colour. Other colours require treatment.	Must be painted to achieve a coloured finish. Repainting necessary.



COMPOSMART PROPERTIES

Pultrusion with graphene

COMPOSMART CONTAINS GRAPHENE

CompoSmart products are altered with the addition of Graphene, thanks to which the principal mechanical properties of the commercial thermostable resins are increased.

The addition of graphene works in for all the usual production procedures in the manufacture of composites (Hand Lay-Up, RTM, Infusion Filament Winding and Pultrusion).

With the addition of Graphene, CompoSmart guarantees the following properties in their products:



Thanks to graphene, the ultimate tensile strength is increased by more than 30% when compared with the standard GFRP profile.

In addition to the general characteristics of pultrusion:





does not cause changes in density or viscosity.



PROPERTIES OF COMPOSMART PRODUCTS

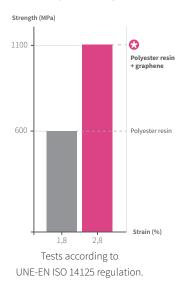
Our research team and commercial department ensure that the development of new products is carried out according to the demands of our collaborators and clients, always maintaining a commitment of efficiency and quality.

PHYSICAL PROPERTIES WITH GRAPHENE					
Specific weight	1,65 / 1,85	kg/dm³			
Glass content	50 / 70	%			
Water absorption	< 0,5 / 1,0	% weight			
Coefficient of linear expansion	< 15 / 17	10 ⁻⁶ /°C			

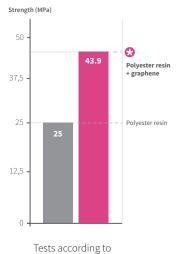
MECHANICAL PROPERTIES WITH GRAPHENE

Flexural strength	1040 / 650	МРа
Tensile strength	838 / 600	MPa
Compressive strength	560 / 300	MPa
Modulus of elasticity	45000 / 28000	MPa
Resistance to impact	240 / 150	kJ/m²
Hardness	> 50	Barcol
Interlaminar shear strength	43,9 / 22	MPa

FLEXURAL STRENGTH (PULTRUSION)



INTERLAMINAR SHEAR STRENGTH (ILSS) (PULTRUSION)



UNE-EN ISO 14130 regulation.

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Certification of the mechanic tests carried out by AIMPLAS, Technological Institute of Plastic on the pultrusion profiles with CompoSmart Graphene.

- Determining the resistance to compression (UNE EN ISO 14126).
- Determining the traction properties (UNE EN ISO 527-5).
- Determining the interlaminar shear (UNE EN ISO 14130).
- Determining the flexion properties (UNE EN ISO 14125).
- Determining the resistance to Charpy impact (UNE EN ISO 179-1).





DESIGN AND PAINTING

Pultrusion technology allows a lot of flexibility in manufacturing. CompoSmart profiles can be manufactured according to the needs of the client. The method of managing the glass and the selection of the resins are vital.

The standard colour is grey but it can also be manufactured in a wide range of colours from the RAL colour chart. These are embedded into the resin mix and therefore the appearance of the resulting profile is of the chosen colour (usually slightly lighter). If a uniform finish is necessary, manually painting the profile with a polyurethane based paint that gives the profiles a resistant and long lasting shine, is recommended.

MANAGABILITY AND TRANSPORT

The fibreglass profiles, due their weight, that is ¼ of that of steel, do not require special equipment to be transported, stored and assembled unlike steel and aluminium. This carries lower transportation and handling costs, therefore providing an important economic saving for the customer.

QUALITY

Our success is based on Quality. Our work philosophy is built on the satisfaction of our clients. In the same way, we understand that quality cannot be achieved without the constant training of our employees.

USES

The uses of CompoSmart fibreglass profiles are numerous and versatile and correspond to different sectors:

- Construction
- Transport
- Architecture
- Chemical Industry
- Medical Industry
- Naval Industry
- Agricultural and livestock operations
- Water treatments
- Telecommunications
- Electrical and electronics
- Alternative energies
- Leisure and recreation

To meet this objective, we have achieved the ISO 9001 from the international accreditation company *Bureau Veritas*.



CompoSmart 🔿

COMPOSMART PROFILES

Pultrusion with graphene

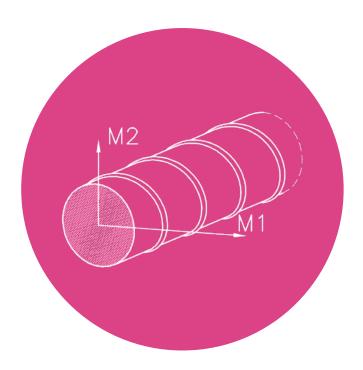
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CORRUGATED REBAR

Pultrusion with graphene

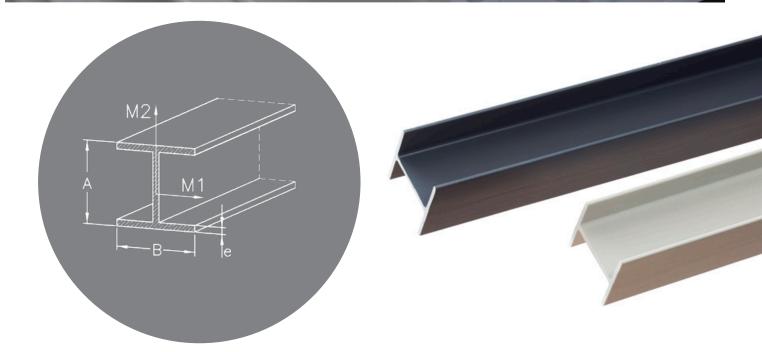
CORRUGATED REBAR						
REF	Dimensions (mm)*	Area (mm ²)	M1 (mm ⁴)	M2 (mm⁴)	g/m	
G-CRV12-01	10	113,1	1017,9	1017,9	220	
G-CRV14-01	12	153,9	1885,7	1885,7	290	
G-CRV16-00	14	201,1	3217,0	3217,0	380	
G-CRV20-02	18	314,2	7854,0	7854,0	560	
G-CRV25-01	23	490,9	19174,8	19174,8	940	
G-CRV30-00	28	706,9	39760,8	39760,8	1300	
G-CRV32-00	30	804,2	51471,9	51471,9	1782	
G-CRV40-00	38	1256,6	125663,7	125663,7	2324	

* Nominal diameter



DOUBLE T PROFILE

Pultrusion with graphene

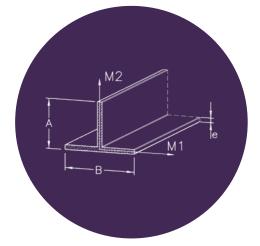


DOUBLE T PROFILE						
REF	Dimensions (mm)*	Area (mm ²)	M1 (mm ⁴)	M2 (mm ⁴)	g/m	
G-IFV00-16	40 x 45 x 4	487,8	60706,5	127956,2	922	
G-IFV100-00	100 x 100 x 8	2271,8	1336000,0	3789000,0	4440	
G-IFV100-01	100 x 100 x 6	1727,8	1001000,0	2995000,0	3000	

*АхВхе

PROFILE-T BY MINIMUM ORDER QUANTITY

CompoSmart Profile-T is only available on request. Check specifications with the manufacturer.





ROUND TUBE Pultrusion with graphene

ROUND TUBE (1)						
REF	Dimensions (mm)*	Area (mm²)	M1 (mm⁴)	M2 (mm⁴)	g/m	
G-TFV05-00	5 x 2	16,5	29,9	29,9	32	
G-TFV06-00	6 x 4	15,7	51,1	51,1	36	
G-TFV06-01	6 x 2	25,1	62,8	62,8	49	
G-TFV08-00	8 x 4	37,7	188,5	188,5	54	
G-TFV10-00	10 x 5	58,9	460,2	460,2	110	
G-TFV10-02	10 x 6	50,3	427,3	427,3	95	
G-TFV11-01	11 x 8	44,8	517,6	517,6	60	
G-TFV12-02	12 x 6	84,8	954,3	954,3	175	
G-TFV12-00	12 x 7	74,6	900,0	900,0	145	
G-TFV12-01	12 x 8	62,8	816,8	816,8	130	
G-TFV13-03	13 x 8	82,5	1200,9	1200,9	160	
G-TFV13-00	13 x 9	69,1	1079,9	1079,9	130	
G-TFV13-02	13 x 10	54,2	911,1	911,1	110	
G-TFV13-01	13 x 7	94,2	1284,1	1284,1	170	
G-TFV14-00	14 x 7	115,5	1767,9	1767,9	220	
G-TFV14-01	14 x 11	58,9	1167,1	1167,1	110	
G-TFV15-00	15 x 5	157,1	2454,4	2454,4	300	
G-TFV15-01	15 x 10	98,2	1994,2	1994,2	190	
G-TFV15-02	15 x 8	126,4	2284,0	2284,0	250	
G-TFV16-00	16 x 12	88,0	2199,1	2199,1	165	
G-TFV18-00	18 x 14	100,5	3267,3	3267,3	180	
G-TFV18-01	18 x 12	141,4	4135,1	4135,1	220	
G-TFV20-05	20 x 10 reinforced	235,6	7363,1	7363,1	480	
G-TFV20-01	20 x 14 reinforced	160,2	5968,2	5968,2	300	
G-TFV20-10	20 x 16 reinforced	113,1	4637,0	4637,0	210	
G-TFV20-11	20 x 15 reinforced	137,4	5368,9	5368,9	220	
G-TFV25-01	25 x 14 reinforced	336,9	17289,0	17289,0	610	
G-TFV25-03	25 x 16 reinforced	289,8	15957,8	15957,8	560	
G-TFV25-04	25 x 18 reinforced	236,4	14021,8	14021,8	460	
G-TFV25-06	25 x 10	412,3	18683,9	18683,9	745	
G-TFV25-00	25 x 10 reinforced	412,3	18683,9	18683,9	745	
G-TFV25-22	25 x 15 reinforced	314,2	16689,7	16689,7	600	
G-TFV25-07	25 x 20 reinforced	176,7	11320,8	11320,8	330	
G-TFV28-00	28 x 22 reinforced	235,6	18672,8	18672,8	470	
G-TFV28-01	28 x 23 reinforced	200,3	16435,2	16435,2	380	
G-TFV28-11	28,8 x 23 reinforced	236,0	20034,0	20034,0	480	

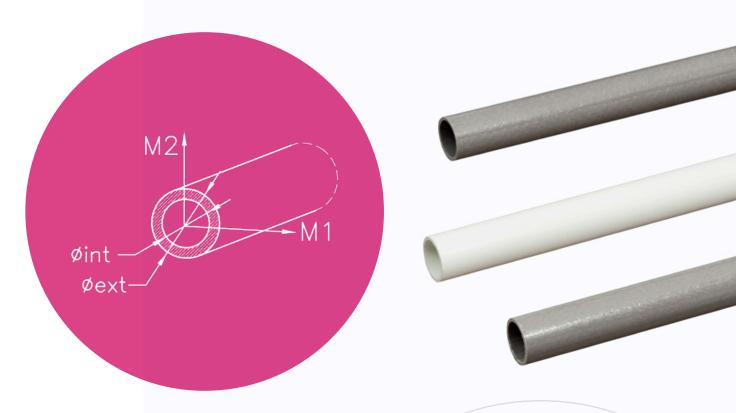


ROUND TUBE

Pultrusion with graphene

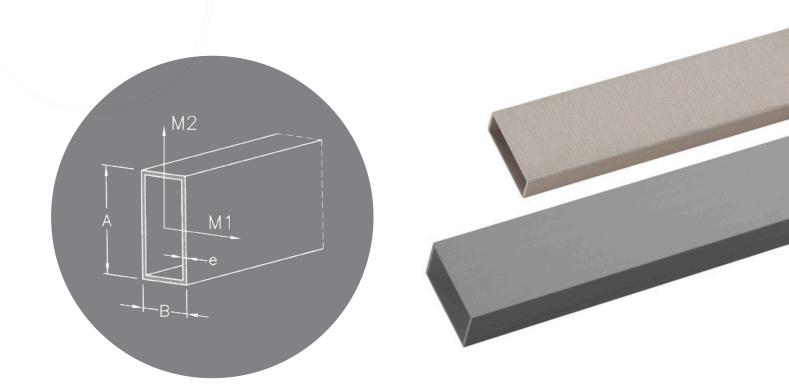
ROUND TUBE (2)						
REF	Dimensions (mm)*	Area (mm ²)	M1 (mm ⁴)	M2 (mm⁴)	g/m	
G-TFV30-07	30 x 20 reinforced	392,7	31906,8	31906,8	700	
G-TFV30-02	30 x 24 reinforced	254,5	23474,8	23474,8	460	
G-TFV30-04	30 x 25 reinforced	216,0	20586,0	20586,0	360	
G-TFV32-14	32 x 15 reinforced	627,5	48986,8	48986,8	1150	
G-TFV32-15	32 x 10 reinforced	725,7	50981,0	50981,0	1341	
G-TFV32-02	32 x 27 reinforced	231,7	25384,8	25384,8	400	
G-TFV32-07	32 x 25	313,4	32297,1	32297,1	547	
G-TFV32-08	32 x 22 reinforced	424,1	39972,8	39972,8	940	
G-TFV32-11	32 x 25 reinforced	313,4	32297,1	32297,1	547	
G-TFV32-12	32 x 20 reinforced	490,1	43617,9	43617,9	930	
G-TFV32-13	32 x 18 reinforced	549,8	46318,9	46318,9	1020	
G-TFV33-00	33 x 23 reinforced	439,8	44477,1	44477,1	840	

* Outside diameter - Inside diameter



RECTANGULAR TUBE

Pultrusion with graphene



RECTANGULAR TUBE						
REF	Dimensions (mm)*	Area (mm²)	M1 (mm⁴)	M2 (mm⁴)	g/m	
G-TRV09-00	9 x 7 x 1,5	39,0	223,6	350,9	88	
G-TRV20-01	20 x 30 x 2 reinforced	184,0	11117,7	21553,4	370	
G-TRV20-02	20 x 60 x 3 reinforced	444,0	27641,2	176255,4	888	
G-TRV25-00	25 x 20 x 2,5 reinforced	200,0	11032,4	16029,7	416	
G-TRV80-01	80 x 50 x 3 reinforced	744,0	308001,9	647462,6	1400	
G-TRV80-04	80 x 30 x 3 reinforced	624,0	94734,8	469502,6	1221	
G-TRV100-00	100 x 50 x 4	1136,0	473619,4	1441000,0	2000	

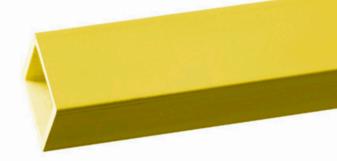
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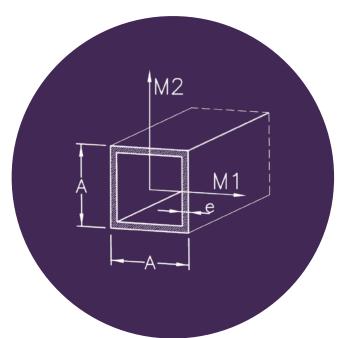
SQUARE TUBE

Pultrusion with graphene



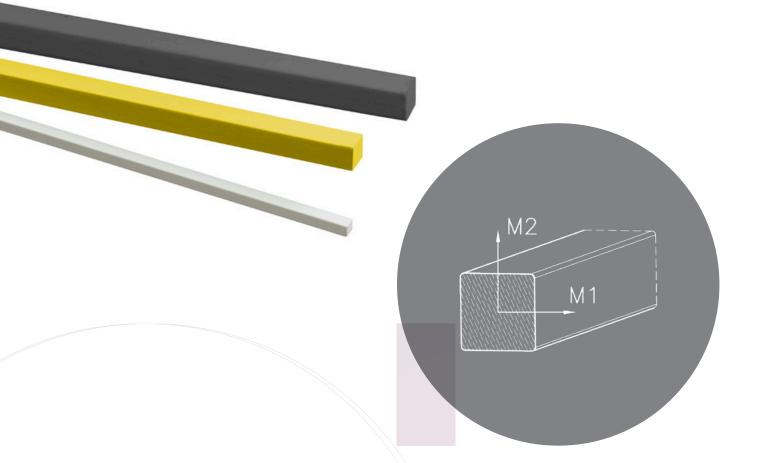
SQUARE TUBE						
REF	Dimensions (mm)*	Area (mm ²)	M1 (mm⁴)	M2 (mm ⁴)	g/m	
G-TCV30-01	30 x 30 x 5 reinforced	500,0	54140,1	54140,1	870	
G-TCV30-04	30 x 30 x 2,5 reinforced	275,0	34933,3	34933,3	435	
G-TCV40-00	40 x 40 x 3 reinforced	444,0	101948,3	101948,3	888	
G-TCV40-03	40 x 40 x 4 reinforced	576,0	125921,3	125921,3	1184	
G-TCV50-00	50 x 50 x 4 reinforced	736,0	261486,0	261486,0	1480	
G-TCV50-01	50 x 50 x 3,5 reinforced	651,0	235898,5	235898,5	1300	
G-TCV50-02	50 x 50 x 5 reinforced	900,0	307452,0	307452,0	1800	
G-TCV60-03	60 x 60 x 4 reinforced	896,0	470650,8	470650,8	1560	
G-TCV75-00	75 x 75 x 6 reinforced	1656,0	1324000,0	1324000,0	3330	

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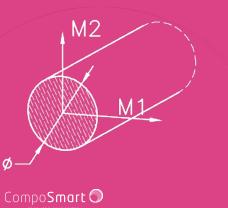




SQUARE BAR						
REF	Dimensions (mm)*	Area (mm ²)	M1 (mm ⁴)	M2 (mm⁴)	g/m	
G-CFV04-00	4 x 4	15,8	20,6	20,6	34	
G-CFV05-00	5 x 5	24,8	50,9	50,9	50	
G-CFV06-00	6 x 6	35,8	106,2	106,2	75	
G-CFV07-00	7 x 7	48,8	197,6	197,6	100	
G-CFV10-00	10 x 10	99,8	828,2	828,2	200	
G-CFV14-00	14 x 14	195,8	3191,1	3191,1	340	
G-CFV40-00	40 x 40	1599,8	213248,4	213248,4	2960	
G-CFV50-00	50 x 50	2499,8	520700,4	520700,4	4621	

ROUND BAR Pultrusion with graphene

ROUND BAR							
REF	Dimensions (mm)*	Area (mm²)	M1 (mm⁴)	M2 (mm⁴)	g/m		
G-VFV02-00	2	3,1	0,8	0,8	6		
G-VFV02-02	2,5	4,9	1,9	1,9	9		
G-VFV03-00	3	7,1	4,0	4,0	14		
G-VFV04-00	4	12,6	12,6	12,6	25		
G-VFV04-05	4,5	15,9	20,1	20,1	30		
G-VFV05-00	5	19,6	30,7	30,7	40		
G-VFV06-00	6	28,3	63,6	63,6	60		
G-VFV07-00	7	38,5	117,9	117,9	70		
G-VFV08-00	8	50,3	201,1	201,1	90		
G-VFV09-00	9	63,6	322,1	322,1	120		
G-VFV10-00	10	78,5	490,9	490,9	150		
G-VFV11-00	11	95,0	718,7	718,7	180		
G-VFV12-00	12	113,1	1017,9	1017,9	220		
G-VFV13-00	13	132,7	1402,0	1402,0	250		
G-VFV14-00	14	153,9	1885,7	1885,7	290		
G-VFV15-00	15	176,7	2485,0	2485,0	340		
G-VFV16-00	16	201,1	3217,0	3217,0	400		
G-VFV18-00	18	254,5	5153,0	5153,0	470		
G-VFV19-00	19	283,5	6397,1	6397,1	530		
G-VFV20-00	20	314,2	7854,0	7854,0	595		
G-VFV25-00	25	490,9	19174,8	19174,8	940		
G-VFV28-00	28	615,8	30171,9	30171,9	1080		
G-VFV30-00	30	706,9	39760,8	39760,8	1300		
G-VFV32-00	32	804,2	51471,9	51471,9	1487		
G-VFV38-01	38	1134,1	102353,9	102353,9	2098		
G-VFV40-00	40	1256,6	125663,7	125663,7	2324		
G-VFV50-00	50	1963,5	306796,2	306796,2	3600		
G-VFV60-00	60	2827,4	636172,5	636172,5	5230		

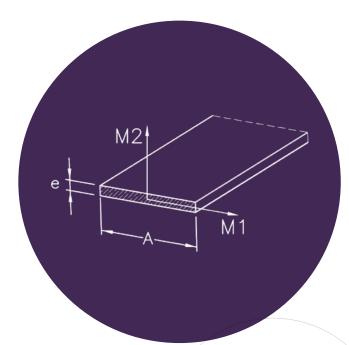


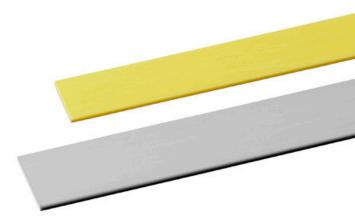
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FLAT Pultrusion with **graphene**

FLAT							
REF	Dimensions (mm)*	Area (mm ²)	M1 (mm ⁴)	M2 (mm ⁴)	g/m		
G-PFV10-00	10 x 2	19,8	6,5	161,5	37		
G-PFV10-03	10 x 5	49,8	102,9	411,5	93		
G-PFV10-02	10 x 2,7	26,8	16,1	219,9	50		
G-PFV15-00	15 x 3	44,8	33,3	832,0	62		
G-PFV15-01	15 x 4,5	67,3	112,9	1253,9	115		
G-PFV20-00	20 x 2,5	49,8	25,8	1645,7	95		
G-PFV20-01	20 x 5 straight	99,8	207,1	3312,3	185		
G-PFV25-00	25 x 3	74,8	55,8	3873,3	135		
G-PFV25-01	25 x 4	99,8	132,6	5175,4	180		
G-PFV25-04	25 x 3,5	87,3	88,7	4524,4	150		
G-PFV30-00	30 x 3,5	104,8	106,6	7827,4	194		
G-PFV30-03	30 x 4	119,8	159,2	8952,4	230		
G-PFV40-00	40 x 3,5	139,8	142,3	18581,8	250		
G-PFV40-02	40 x 4	159,8	212,6	21248,4	305		
G-PFV40-23	40 x 5	199,8	415,4	26581,8	370		
G-PFV100-00	100 x 5 reinforced	499,8	1040,4	416132,6	915		
G-PFV100-01	100 x 10 reinforced	999,8	8328,2	832799,2	1850		
G-PFV140-00	140 x 3 reinforced	419,8	314,6	684951,8	760		

*Ахе







CompoSmart products can be joined in different ways, with **screw joints, rivets** or with **structural adhesive for composites.**

SCREW JOINTS



RIVET JOINTS



STRUCTURAL ADHESIVE

Graphenano Composites offers an **structural adhesive for composites**. It is a bi-component adhesive that guarantees maximum mechanical and thermic resistance as well as elasticity and is quick drying.



CONDITIONS OF SALE

Pultrusion with graphene

1. PRICES

Consult our price tariffs. The prices are indicated in euros per metre (€/m) without VAT or transport.

The shipping cost will be included in the invoice, unless it has been specified that they will be sent as freight collect with your agency.

Enquire about large quantities. Bulk discounts are available.

2. MANUFACTURING AND DELIVERY TIMES

REF	Manufacturing time	
In stock	8-10 days	
Out of stock	15-20 days	
REF with "E"	20-25 days	

The delivery times of agencies usually vary between 1-3 days depending on the destination.

The manufacturing and delivery times are guides. A date will be provided for each order.

Advance payment does not guarantee that the orders are dispatched on the same day. This is understood as a firm confirmation of the order, which will follow the usual procedures.

3. MATERIALS IN STOCK

The materials in stock are usually natural coloured 6-metre rebars. On occasion, due to excess manufacturing, there may be smaller or different coloured rebars. Enquire about each case.

Normally there is no cost for made to measure orders. However, the leftover cuttings of the profiles in stock will be at the cost of the buyer.

For pieces cut less than 200mm there will be a 10% charge.

4. MINIMUM QUANTITIES

Certain products that are not in stock require a minimum order size to be manufactured.

5. TECHNICAL SPECIFICATIONS

All of the profiles listed in this catalogue can be made in any type of resin in accordance with the needs of the client: orthophthalic, isophthalic, vinylester, flame resistant, selfextinguishing and epoxy.

All of the fibreglass profiles can be made from carbon fibre.

The profiles with specific colour, resin or other specification will be subject to a minimum order size. The quantities will depend on the type of profile.

Furthermore, our materials can made with UV ray stabilisers at the request of the buyer.

6. PAYMENT CONDITIONS

The first payment and payments less than €300 will be paid up front. For orders over €300 the payment conditions will be studied in each case.

In the event of requesting a credit check, the costs of this will be invoiced to the client regardless of whether the result is positive or negative. The cost of the check is €30.

Under no circumstances can the payment conditions be more than 60 days from the invoice date or 30 days from the authorised direct debit payment date.

The postponement of payment like any delay in payment will generate invoices for postponement fees or delay interests.

7. RESPONSIBILITY

The details provided in this study are real. Notwithstanding, the company does not accept any liability of the uses give to the products as a result of this data. Graphenano Composites recommends that each client carry out their own check depending on the use and on the conditions to which the product will be submitted.

Compo**Smart** 🔘







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