

COMPOSITE
MATERIAL
STRUCTURES:
ENGINEERING
AND FABRICATION



THE TICOMM & PROMACO GROUP



INNOVATIVE IDEAS: COMPLETE COMPOSITE SOLUTIONS

In 1978 Giuseppe Tantardini founded the Ticomm & Promaco group to satisfy the demands for anti-corrosive components in the industrial environment.

Very soon Ticomm & Promaco understood that the client's needs went far beyond just simply providing a product. It therefore perceived that it was necessary to propose a more complete solution:

- initially: a meeting, an exact analysis and an evaluation on the concepts.
- finally (on confirmation): pre-assembly or key in hand installation.

At the end of the 70's among other things, composites began to be introduced in the industry on a large scale, replacing traditional materials in specific applications.

Ticomm & Promaco owes its success, matured over the years, to the 2 types of orientation adopted:

The capacity of offering a complete solution using composites.

At present Ticomm & Promaco dominates all the chains of engineering and construction of structures and anti-corrosive components, priding itself on undisputed leadership in all sectors of the industry.

Ticomm & Promaco has farsighted ambitions for the future: every year over 5% of the turnover is invested in new resources and in advanced machinery.

THE TICOMM & PROMACO GROUP TODAY

- Over 60 people;
- Turnover: more than 10,5 millions euro, (of which 30-35% represent exports).
- 800 m² offices area.
- 4.000 m² area for production and transformation.
- 1.100 m² warehouse
- Annual growth over 15%.



GRP Gratings and Structures Department

A YOUTHFUL GROUP WITH NEW SOLUTIONS

REAL DEDICATION

The Ticomm & Promaco team works daily at promoting one common objective: offering the customer the best service. A goal which we daily thrive to achieve by a double effort of:

- consistent investment in staff and training: Ticomm & Promaco profits by using the most competent specialists in its field;
- a commitment that goes way beyond ISO 9001/2000: the will to work with the best suppliers and the best products in order to guarantee the best service.

Day after day we at Ticomm & Promaco try our most to be your partner today, but strive even more to still be your partner tomorrow.



Offices in Gorgonzola



Production unit in Loreo (RO)

COMPOSITES



HIGH PERFORMANCE

In addition to finding a great use in specific fields (such as aeronautics) the composites today have entered into all sectors of industry. Their flexibility and extraordinary performances are well known and widely appreciated.

It is really thanks to the composites that the use of fibreglass has expanded so much, seen – among other things - its competitiveness in terms of cost in comparison with traditional materials.

Ticomm & Promaco offers FRP structures resulting of the combination of high performance synthetic resins and glass fibre reinforcement.

The glass fibres come in different forms depending on the required performance and on the type of manufacturing process they undergo.

The resins are selected according to their mechanical features and in particular for their resistance to corrosion and fire.



THE VOCATIONS OF TICOMM & PROMACO

MATERIALS AT AFFORDABLE PRICES

The solution of using composite parts represents a notable advantage for those who have to resolve difficult engineering problems daily: composites in fact permit applying reinforcement at specific points and making precise choices based on the type of stress encountered: tensile stress, compression, shear. Layers applied to the external surface of the product strengthen even more the chemical resistance: an anti-corrosive barrier.

Ticomm & Promaco is the initiator of many FRP product manufacturing processes.

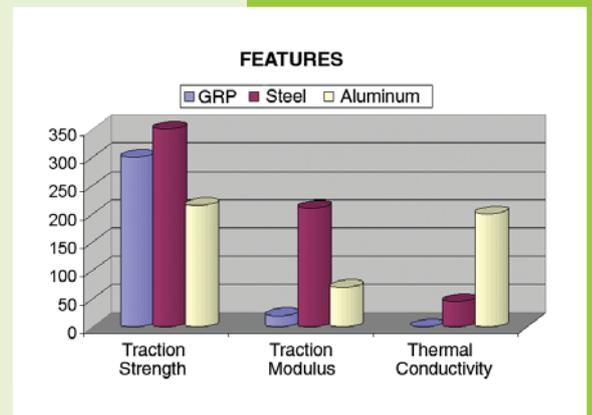
For every type of product and in function of the quantity to be produced we are able to single out which type of process is best suited for its production: molded, pultruded or layered.

Unlike traditional structures, composite structures are extremely resistant to corrosion and are maintenance free.

No painting! Moreover, thanks to its smooth surface, which does not require cleaning, FRP leads to considerable savings.

The unquestionable mechanical performance of composites allows the realization of structures which are simple but also have high security factors.

And finally the lightweight of FRP leads to a reduction in transport and assembly costs. For some applications the non-conductive and (on request) anti-static features also represent considerable advantages (it is also possible to request materials classified fire-retardant).



TICOMM & PROMACO ENGINEERING



NEED ANALYSIS

Apparently simple problems are often part of a more complex problem: thus the necessity to analyse specific demands comes up in order to implement proper investment choices. Ticomm & Promaco offers its support in assessing together with you the best solution to suit any particular need. You can count on our experience developed in the field of composite structures.

FEASIBILITY STUDY

Before suggesting specific solutions Ticomm & Promaco first tries to understand your request both from the technical and economic point of view.

It is possible to proceed to further analysis and evaluation of all possible alternatives, selecting eventual suppliers and subcontractors as well as control companies.

This evaluation process involves: Ticomm & Promaco, the client and often the project department of a supplier or an external agency.

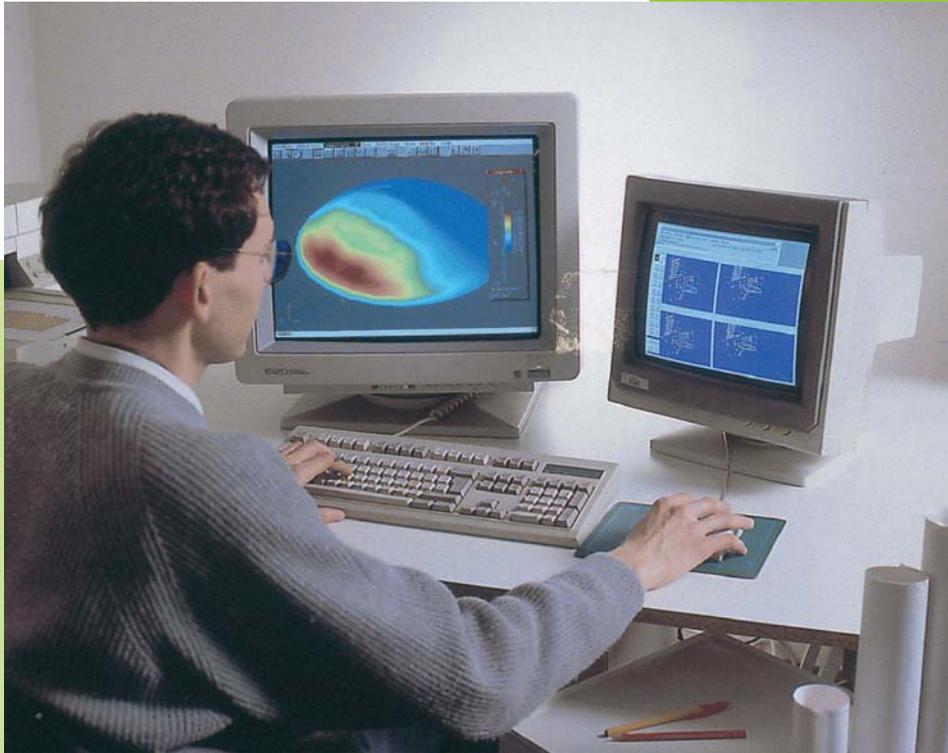
Thanks to this combined effort Ticomm & Promaco is always able to offer specific and innovative solutions.



TECHNICAL DEPARTMENT

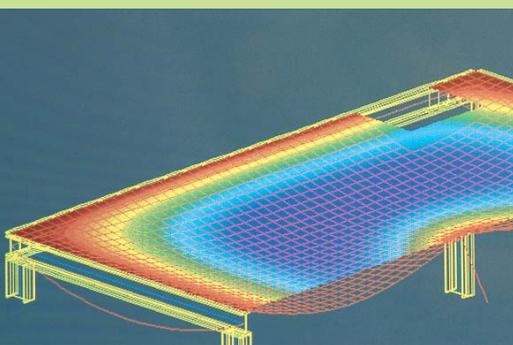
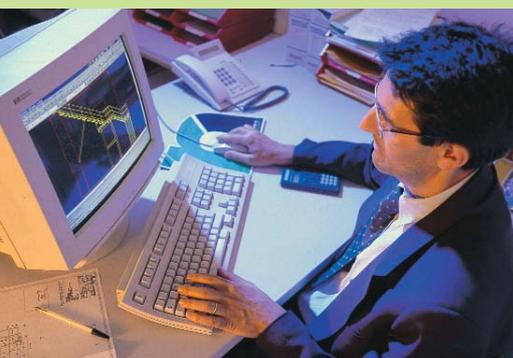
Ticomm & Promaco's technical department is equipped with the most up-to-date and sophisticated automated systems: CAD, 3D display, modelling and advanced calculation methods in the field of composite materials.

WORKING IT TOGETHER



The Ticomm & Promaco engineering and technical staff is specialised in the field of corrosion and plastic materials: the client can therefore take advantage of our consolidated experience in all sectors of this industry and if necessary, even in the latest developments in the plastics industry.

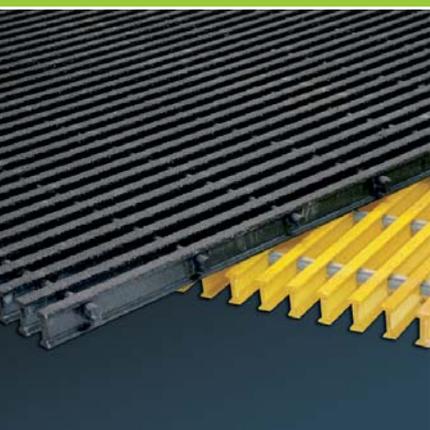
Our contribution can be limited to the simple design or go beyond that, to its complete fabrication .



SUGGESTIONS

SPECIFICATIONS AND DATA

TICOMM & PROMACO'S FABRICATIONS

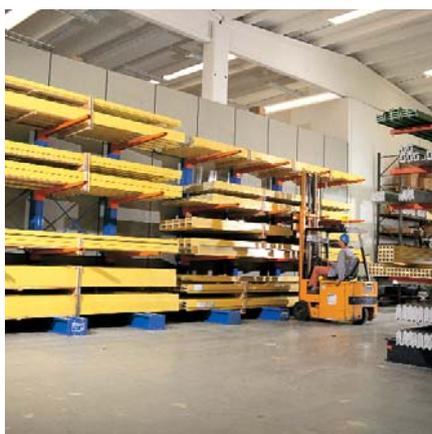
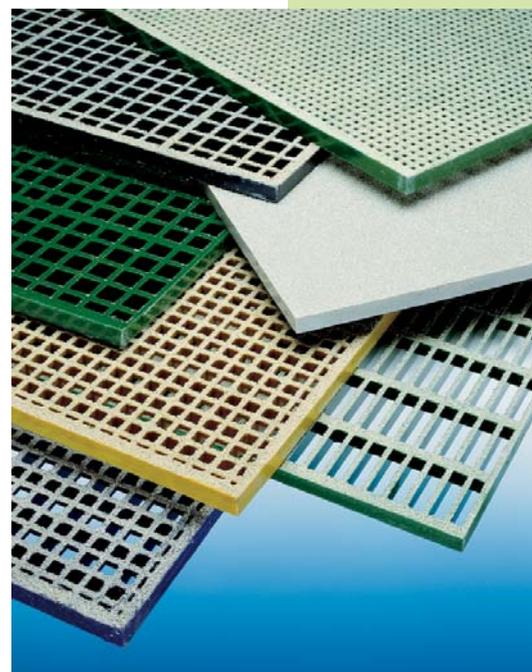


BASE PRODUCTS

Both for standard products available in our warehouse and in case of special products, Ticomm & Promaco has available internal well equipped workshops.

In some cases we take advantage of the collaboration of competent external companies (specialised installers).

Profiles, open and closed surface gratings, plates, pipes, pipe fittings and cover elements: Ticomm & Promaco is capable of using a wide variety of products, readily conforming to any specific situation.



standard or made to measure products

preassembly

CONSTRUCTING FOR YOU

PREASSEMBLY

Semi-manufactured products are strictly controlled under internal supervision. They are subsequently preassembled at appropriate areas.

Small structural work, railings, ladders and skid assembly are preassembled at workbenches by qualified personnel.

With the aid of designs provided by the technical office, assembly is carried out according to preestablished procedures.

Thanks to this methodology we are able to limit time loss at the moment of final assembly.



ON SITE INSTALLATION

Ticomm & Promaco is able to install its structures in Italy or abroad.

Our installers, equipped with adequate preparation and technical competence, are capable of carrying out a quality product according to prefixed Ticomm & Promaco standards, while at the same time respecting job site safety procedures.

Once completed, the structure undergoes complete testing before being consigned to the client.

Ticomm & Promaco is also available to carry out any eventual repair operations, specific maintenance, modifications or extensions.



final fabrications

FROM QUALITY TO TESTIMONIAL

SOME TESTIMONIALS OF QUALITY A CONSTANT OBJECTIVE

From planning to fabrication our constant guiding principle has always been quality. Ticomm & Promaco's engineers and technicians objectively and constructively resolve any given problem.

The client has the certainty of being in the hands of a solid reliable organisation capable of offering quality products and service.

SELECT THE BEST

Ticomm & Promaco company policy, inspired by quality consciousness, is systematically adopted by its technicians. They use the best materials available, select the best suppliers and sub-contractors on the market and choose the best technical proposals.

ENSURE QUALITY

Beyond being ISO 9001/2000 certified, Ticomm & Promaco also possesses other important product certifications released by qualified national institutes or agencies i.e., ENEL and RINA.

External organisations carry out periodic inspections of our offices and workshops to verify that all operations conform to quality objectives.



COLLABORATION TICOMM & PROMACO

Ticomm & Promaco possesses more than 20 years of experience in the plastic materials sector.

Ticomm & Promaco puts a more complete combined effort at disposal of its clients.

Ticomm & Promaco works in a group: listens to its clients, suppliers and control organisations and gets them all involved in elaborating the best technical solutions.

From this type of collaboration arises a concrete solution, which is inevitably satisfying for everyone.



DSM resins



THE SERIOUSNESS OF A MARKET LEADER



QUALITY REFERENCES

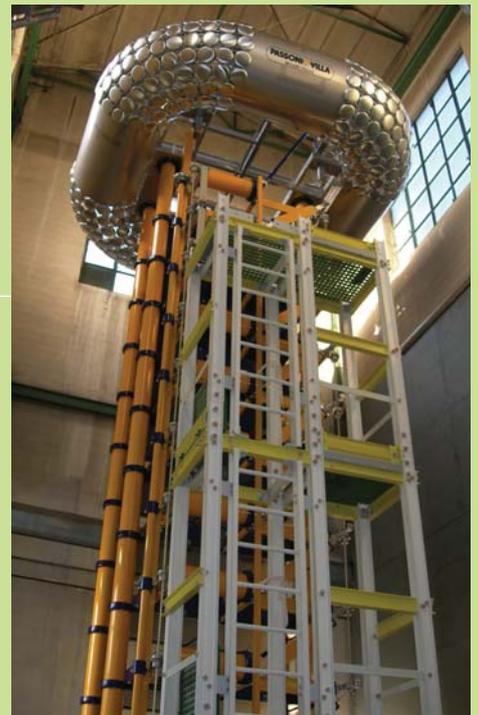
Solvay, ABB, Elf Atochem, Petrobras, General Electric..... the most illustrious and representative names in all sectors of industry: chemical, galvanic, paper, pharmaceutical, automotive, food, naval, water and air purification treatment.



ENEL

Società per azioni

**DIREZIONE STUDI E RICERCHE
CENTRO DI RICERCA IDRAULICA
E STRUTTURALE**





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