



**MADE IN
ITALY**

focus



The owners of the company Focus S.r.l. have consolidated their position in the market thanks to the experience acquired in various industrial sectors in which they operate since the 70s.

The know how and process and product innovations, allow Focus to maintain over time its qualified presence on the Italian and European markets in the following areas:

- Moulding of expanded polyurethane for furniture and technical articles
- Construction of molds for polyurethane
- Gangway and passengers doors for railways
- Furniture components and various technical articles designed for collective and non collective transport

Focus is located in Isola della Scala, 19 Km from Verona.

The company's headquarters covers an area of 10,000 sq.m.. It was completed in 2002 and equipped with efficient equipment, facilities and instruments of production control. The quality is ensured by its management system, certified by an external, independent accredited body. Focus is certified with the quality management system according to ISO 9001:2008



- Passenger seats for railway, bus, and subway passengers
- Armchairs and chairs for offices, houses and cinemas
- Saddles and accessories for motorcycles
- Sports and leisure equipment
- Accessories for shower-sauna and bathroom furniture in general
- Soundproofing of industrial burners and machines tools
- Soundproofing in the automotive industry
- Cabin components for operating machines such as seats, dashboards, shackles, etc..
- Components of attractions for amusement parks
- Components of recreational equipment
- As a Thermal insulation

POLYURETHANE

RAILWAY

- REI railway doors and walls
- Doors cab
- Gangway doors, passengers doors and internal doors
- Windows and walls
- Rail furnishing accessories in general
- Foaming of phenolic resin
- Bonding
- Assembling



POLYURETHANE MOLDING

Focus has twelve production lines, manual and fully automatic, for components in flexible polyurethane, with or without structured inserts and complements in integral self skinning polyurethane, in various colors and different hardness and density.

The polyurethanes used for the realization of the products are non-toxic water-based with low smoke emission conform to all main Fire-Smoke norms in force all over the world.

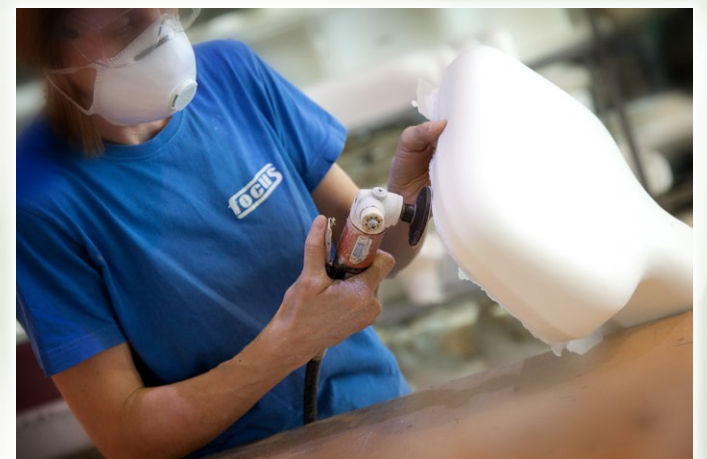
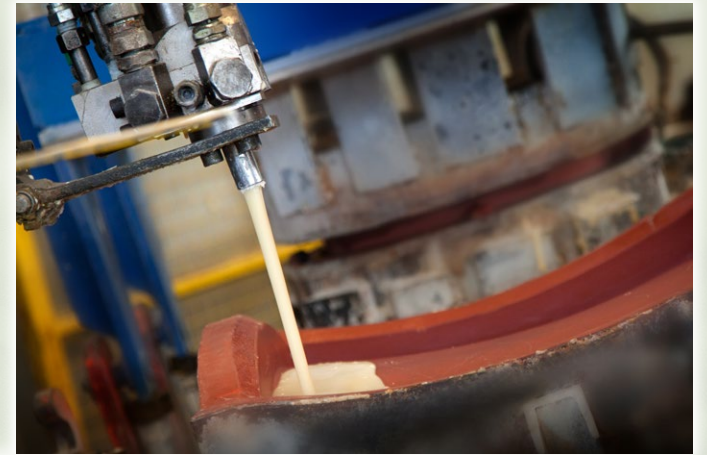
Our water-based polyurethane foams are antibacterial, ecological and natural.

The polyurethane that we use has an average density of 65/70 Kg / cu.m.

The flexible polyurethane is 100% crushproof and long-lasting.

The structure of the material ensures a rigid lift also for thin thickness.

Focus is able to provide a wide range of solutions, disposing of materials with different densities.





FLEXIBLE - INTEGRAL POLYURETHANE

Our processes allow the realization of two different types of products:

- Flexible polyurethane components
- Self skinning polyurethane components

The main areas of supply are the following:

- Passenger sits for trains, trams, buses and subways
- Armchairs and chairs for office, houses, cinemas, communities and entertainment places
- Saddles and accessories for motorcycles



- Sports and leisure equipments
- Accessories for shower-sauna and bathroom furniture in general
- Soundproofing of industrial burners and machine tools
- Soundproofing in the automotive industry
- Cabins for construction machinery components such as seats, dashboards, shackles, etc..
- Components of attractions for amusement parks
- Components of amusement equipment.

The production process is constantly monitored through internal procedures that allows as to realize products conform to the customer requirements.

A sophisticated tool allows to measure the rate of sinking (IRAM) of the finished product.



RIGID POLYURETHANE

Cold expanded rigid polyurethane is an extraordinary and very versatile material.

Its features make it possible to produce parts with complex profiles and variable thicknesses. The aesthetic level of finish can be very accurate and completed with the final painting phase, which makes it suitable even for the most sought after (high level) solutions.

The low cost of the moulding equipment means that Rigid Polyurethane is often preferred to other plastic materials. The moulds can be in epoxy resin or in aluminum. Aluminum moulds are to be preferred for the best precision of the mould-closing lines, for the surface finish and for the duration as it can be used for a large number of pieces. Resin moulds are also made by us internally.

FEATURES:

- Lightness of the piece (artifact)
- High resistance to mechanical stress
- High surface hardness
- Densities ranging from 40 to 650 Kg-m³
- Paintable surface
- Absolute freedom of design and solutions with an aesthetic finish
- Resistant to humidity, high and low temperatures
- High soundproofing properties
- Excellent insulation value
- Possibility of co-foaming of steel inserts/plastic inserts/wood inserts, bushings, pins, hooks, etc.
- Closed cell material
- Chemically inert to many substances
- Free from HCFC
- It disposes of as an inert, not dangerous material

RIGID POLYURETHANE LOW DENSITY - 40/50 Kg-m³

Rigid Polyurethane with density 40/50 Kg-m³ is the insulation material par excellence. As a result of a good value of Initial Thermal Conductivity, which avoids the dispersion of heat, it is used in the insulation of hot water accumulators (puffer - boiler) in heating systems and also in refrigerating equipment.



RIGID POLYURETHANE

MEDIUM DENSITY - 150/200 Kg-m³

Rigid polyurethane with density 150-200 Kg-m³ is suitable for producing semi-finished components of all types. Thanks to its lightness and closed cells it is also used as a condensate collection element for air conditioners and in industrial plants.



RIGID POLYURETHANE

HIGH DENSITY - 400/650 Kg-m³

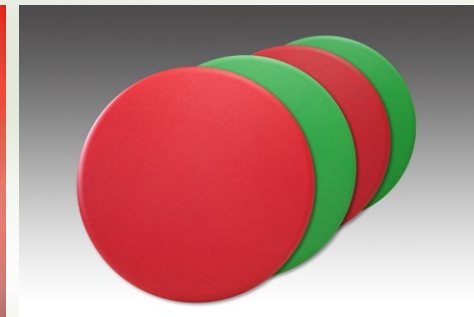
Rigid Polyurethane with density 400-650 Kg-m³ is structural. It is used as a supporting structure directly using the fixing points previously foreseen in the construction of the mould and dipped into the polyurethane.



FINISH

The aesthetic part of the semi-finished products can be completed with the painting that can be: smooth, rough, peel, glossy, matt, etc. The painting completes the aesthetic element.

It's possible to choose between the RAL colors and customized colors.





MOLDS AND INSERTS

Focus has the necessary equipment and expertise to support its clients in the design and construction, when required, of molds and inserts for molds.

The construction of the molds may use structural supports of different nature and methods of shaping established according to the characteristics of the article that must be produced. Metal components, rfv polyester or other materials are normally used for this purpose.

Inserts and structures can be manufactured and/or assembled in metal, wood, composites or other materials provided by the project according to the customers needs.

Molds, inserts and supports remain the property of the customer even if they are left on deposit by Focus.





RAILWAY SECTOR

Focus has the expertise and equipment necessary for the production of many types of mechanical components and composites.

Focus designs and manufactures interior and exterior doors, and interior furnishings for the tramway transport.

The skills and the technologies acquired allow Focus to carry out processes such as:

- Welding and painting
- Foaming of phenolic resin
- Bonding
- Assembling
- Mechanical processing in general





RAILWAY PRODUCTS

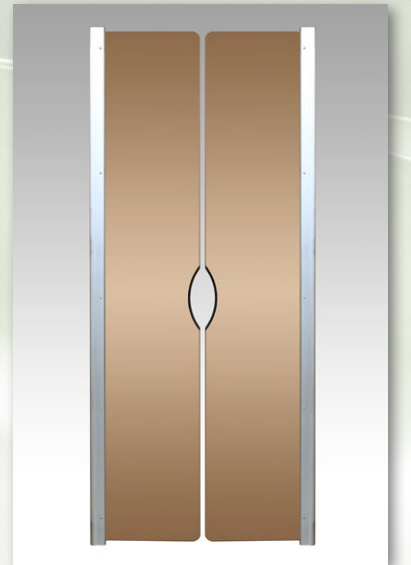
Focus assures its customers to operate according to quality procedures that meet the global standard requirements. The objective warranty consists of certificates issued by accredited external bodies.

Certificate of Compliance No. 0429.2024 issued by IMQ.

Focus also provides certification of special processes such as welding and bonding according to the most important European certifications in the industry.

The use of certified high-strength fire-fumes is the prerogative of Focus in the manufacture of its products:

- REI railway door and wall
- Doors cab
- Gangway and passengers doors for railways
- Windows and walls
- Sessions for cars
- Rail and general furnishing accessories





PHENOLIC RESINS

Focus is among the few companies in Italy to produce the phenolic resin and the only one to use the injection technique in the railway or tram sector.

Phenolic resins, typically thermosetting, may be obtained with different characteristics from the qualitative and quantitative combination of the monomers that enter into the synthesis reaction.

FOCUS introduced phenolic resins in the realization of doors for which is required an excellent reaction to fire together with mechanical requirements and thermal and acoustic insulation.

The trademark used by FOCUS for this product is called "GLASFEN".

The most important characteristics of GLASFEN are:

- High resistance to fire
- Excellent self-extinguishing characteristics
- Low smoke emission
- Low toxicity of the pyrolysis gas
- High mechanical strength
- Dimensional stability even at high temperatures
- Chemical resistance
- Insensitivity to micro-organisms
- Discreet sound insulation

The use of the phenolic resin foam, as fireproof material, combined with other specific intumescent materials, brought focus to specialize in the context of killing the fire and to be fully autonomous in their realization.

Our Phenolic Resin is compliant with EN 45545-2:2013 + A1:2015 regulations.



QUALITY CONTROL

Focus ensures compliance of its products with regulatory requirements and customer requirements both of the physical and mechanical properties, both applicable requirements of hygiene and safety.

Focus, when required by contract or by law, is able to release its customers specific declarations of conformity or certification of test laboratories.

All our products are conform to all Fire-Smoke Fire Certifications: Class 1 IM, Californian Buletin 117 and BS 5852 Crib 5, NFPA 260 (2019), FIRE INDEX 5.2.

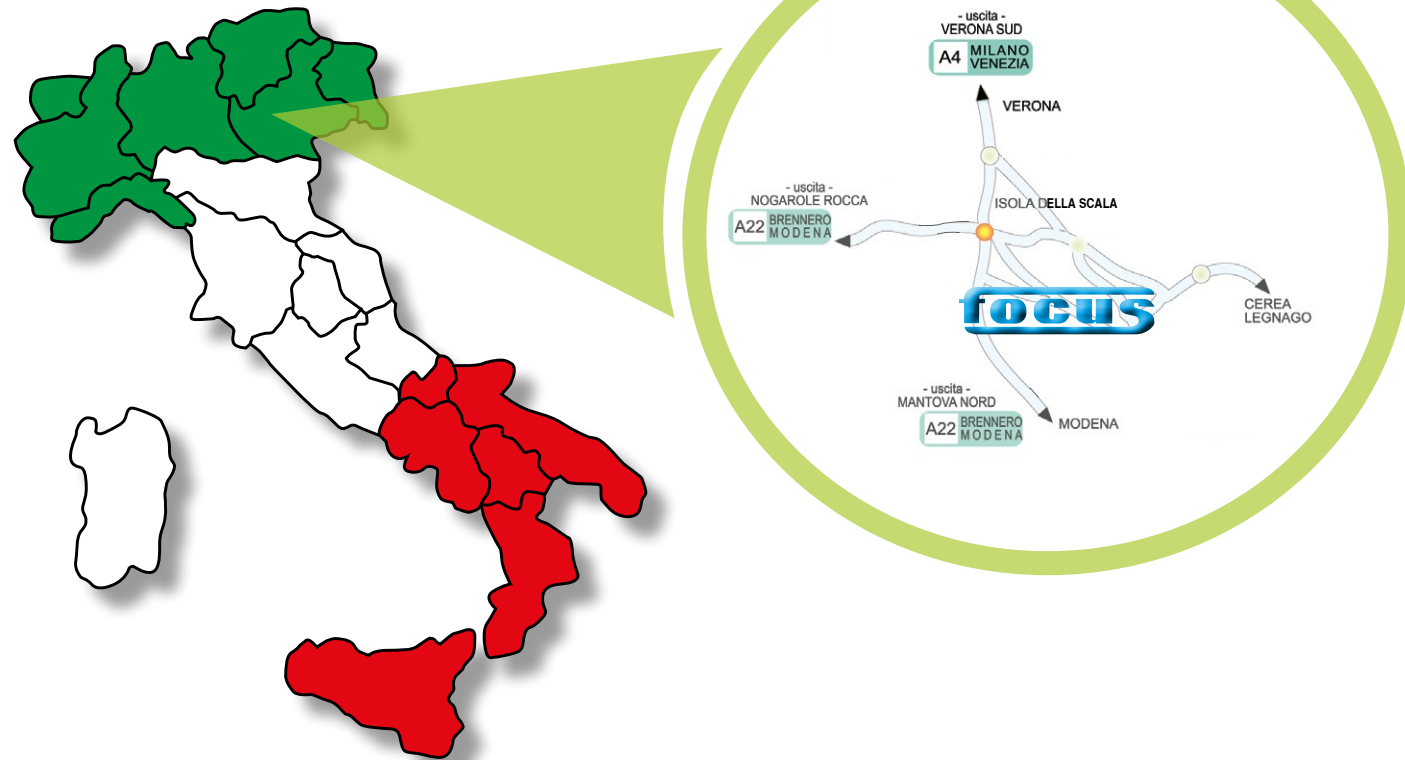
Smoke Certification: Complies with standards according ANFOR standard and all meet the guidelines according to the UNI CEI 1170.



THE ENVIRONMENT PROTECTION

Our company makes use only of polyurethanes without chlorofluorocarbons (CFC free) and hydrochlorofluorocarbons (HCFC free) that means total absence of harmful substances and pollutants emitted into the atmosphere and the environment. In accordance with the EC Regulation no. 1907/2006, R.E.A.C.H. (Registration, Evaluation and Authorisation of Chemicals) integrated European system for registration, evaluation, authorization and restriction of chemicals for the protection of human health and the environment from the harmful effects of chemicals and at the same time aims to improve the competitiveness and innovation of the European chemical industry.

LOCATION



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focus

**FOAMING POLYURETHANE MOLDING
RAILWAY DOORS AND ACCESSORIES**



www.focusverona.com

