

BONFANTI ITALIAN WORKSHOPS



OIB SRL

Production and trade of
sheet metal, perforated
sheet metal, semi-fin-
ished products.



www.oibsrl.it



OIB SRL

WHO WE ARE

With more than thirty years of experience, Marco Bonfanti founded OIB SRL in 2008.

The first work experiences come from the family business "R. Bonfanti", established in the 70s, which dealt with carpentry and sheet metal processing.

Over the years we have acquired experience and skills that allow us to create, based on our customers' designs, simple details or more complex artifacts, starting from small batches to large quantities.

The operational headquarters of OIB SRL extends over a surface area of 4000 square meters: 1000 square meters dedicated to production and 500 square meters to the warehouse.

SHEET METAL PROCESSING

Based on the customer's design, we produce the most diverse structures, components, and parts in iron, stainless steel, aluminum, and special steel.

The continuous progress of technology leads us to constantly update and renew our machine park, allowing us to maintain fundamental elements such as quality, versatility, and competitiveness.

Thanks to a machine park that allows us to prepare the various parts with limited time and costs, we produce parts or semi-finished products of light carpentry, protective casings, connections, reductions, frames, custom-made plates, shaped parts obtained from laser cutting, etc...





PRESS BENDING

Press bending is a sheet metal bending operation using a press brake. It can be done in two different ways: air bending or coining.

Thanks to the flexibility of the press brakes, managed by numerical controls, and the experience acquired, we create various types of shapes, from “air” bends to coining bends, also building special molds for the creation of parts that are normally impossible to produce on press brakes.

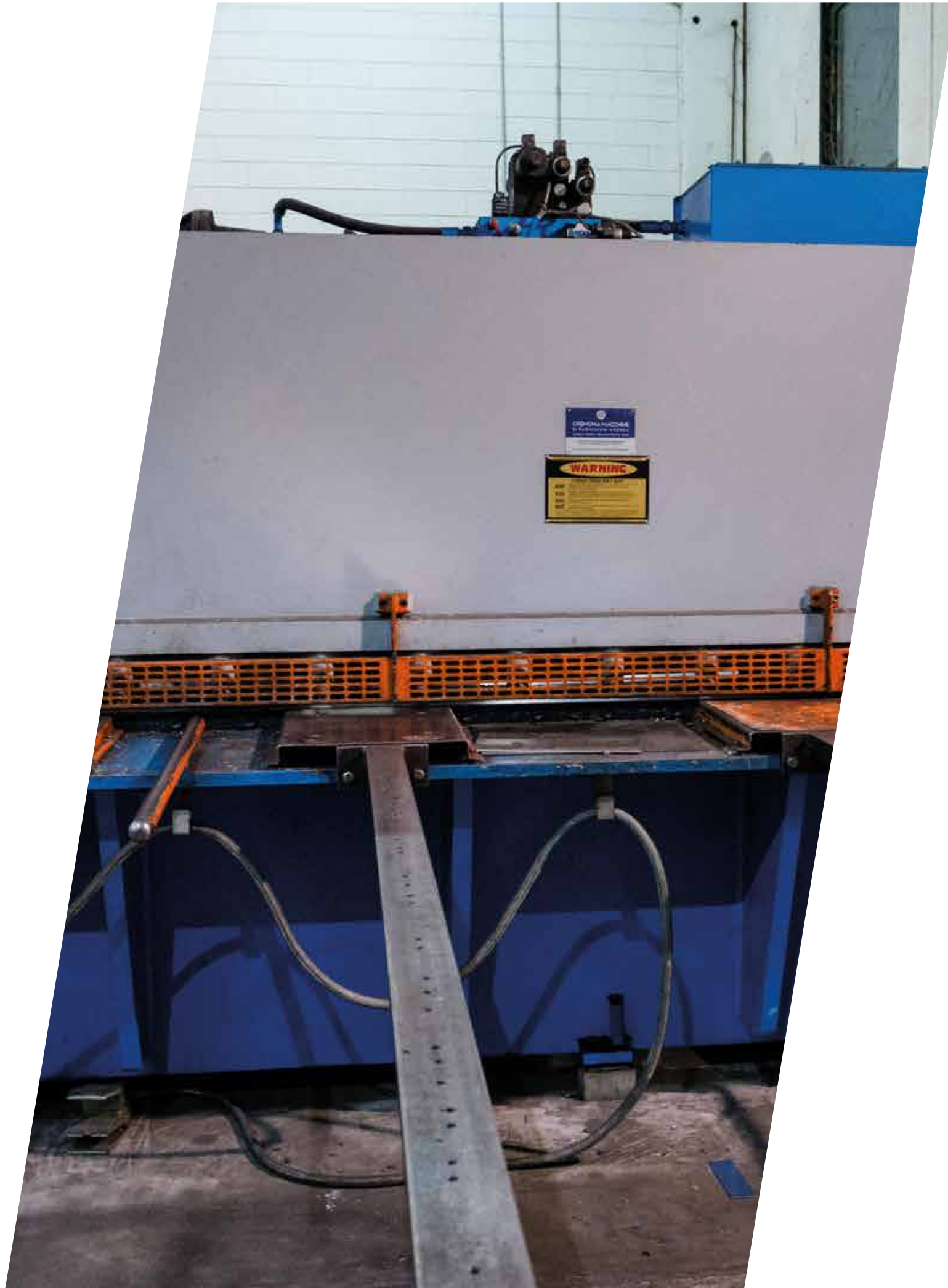
We perform press bending using the following work stations:

- GILARDI 320 tons on a length of 6 meters controlled by 8 axes;
- GILARDI 160 tons on a length of 3 meters controlled by 7 axes;
- GECKO 60 tons on a length of 2 meters.



PUNCHING

By means of single-punch and multi-punch punching machines we are able to produce custom perforated sheets, with customised full perimeter perforations and edges, fixing holes and parts with different diameters and hole shapes. These two types of machines allow for greater flexibility, keeping costs down according to the part to be produced.



SHEARING

The traditional technique for cutting sheet metal is shearing. The shearing cutting operation is performed by machines called shears. The most frequently used shears are guillotine and circular blade shears. In both types, the separation of the parts is produced by the mechanical action of two blades whose effort exceeds the breaking strength of the material.

The guillotine shear is the most common and is composed of two blades, one fixed under the sheet metal and the other, upper, moved by hydraulic pistons powered by a hydraulic power unit. Each machine is equipped with a device called a sheet metal holder, which allows the material to be blocked during cutting, and by adjustable guides on which the sheet metal is placed.



LASER CUT

Laser cutting of sheet metal, which today is done using numerically controlled machinery, is an extremely precise type of processing, as well as fundamental for the creation of a metal product and the success of a finished product. Precision laser cuts, in Minifaber, are initially conceived in the design phase, where our Technical Office develops the project together with the customer; then, we move on to the creation of the laser cut directly on the sheet metal, thanks to the use of technologically advanced and cutting-edge machines.

For precision parts, the indicated process is laser cutting: we can create shaped sheet metal according to your drawings up to a maximum size of 2000x4000mm.



OTHER MACHINES

01. Press

02. Hacksaw

03. Notching machine



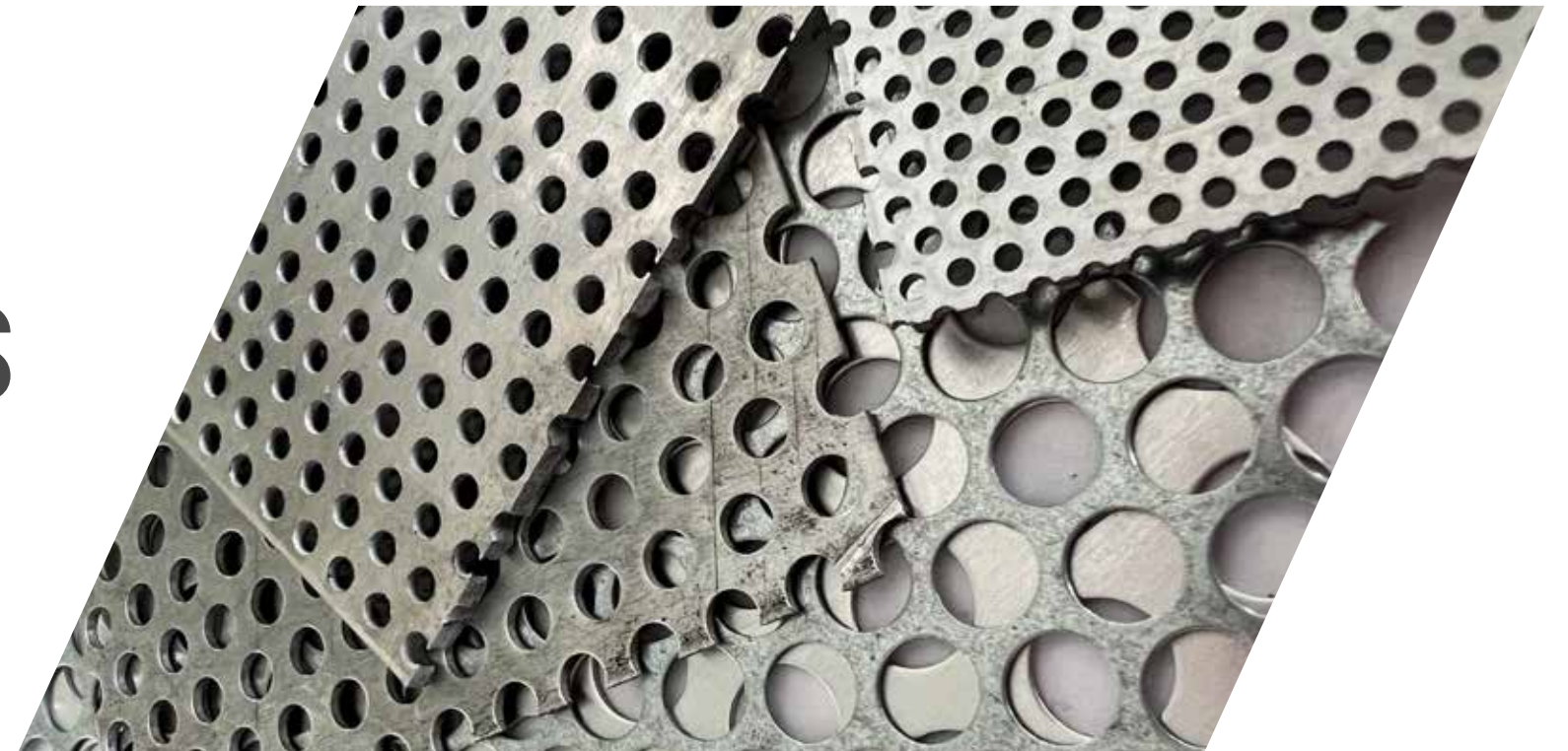
PERFORATED SHEETS

Perforated sheets are required for many applications, given their infinite sizes.

They are obtained by cold punching.

The clarity of the holes, their compliance with the prescribed size, the precision of their interaxis, the absence of significant burrs, the almost complete lack of tension or deformations due to punching, are requirements that translate into qualities for a good perforated sheet.

An advantage of perforated sheet, compared to metal mesh and expanded metal, is the fact that it can have non-perforated perimeter edges, and also other non-perforated fields, based on the indications given by the applicant.



STANDARD



CUSTOMIZED

VENTILATION CHANNELS

The ventilation of cereals and oilseeds consists in the forced insufflation of air between the grains to obtain a rapid heat exchange that allows to reduce their temperature by reducing the biological activity and maintaining their physical and chemical characteristics over time.

The air distribution systems placed at the base of silos and warehouses are of two types, through ventilation blades placed on the same level as the floor planned at the time of construction or through the vaulted channels placed on the level of the existing warehouses and must ensure a balanced distribution of the ventilation air within the mass and allow the operators to intervene effectively and inexpensively.



MOBILE



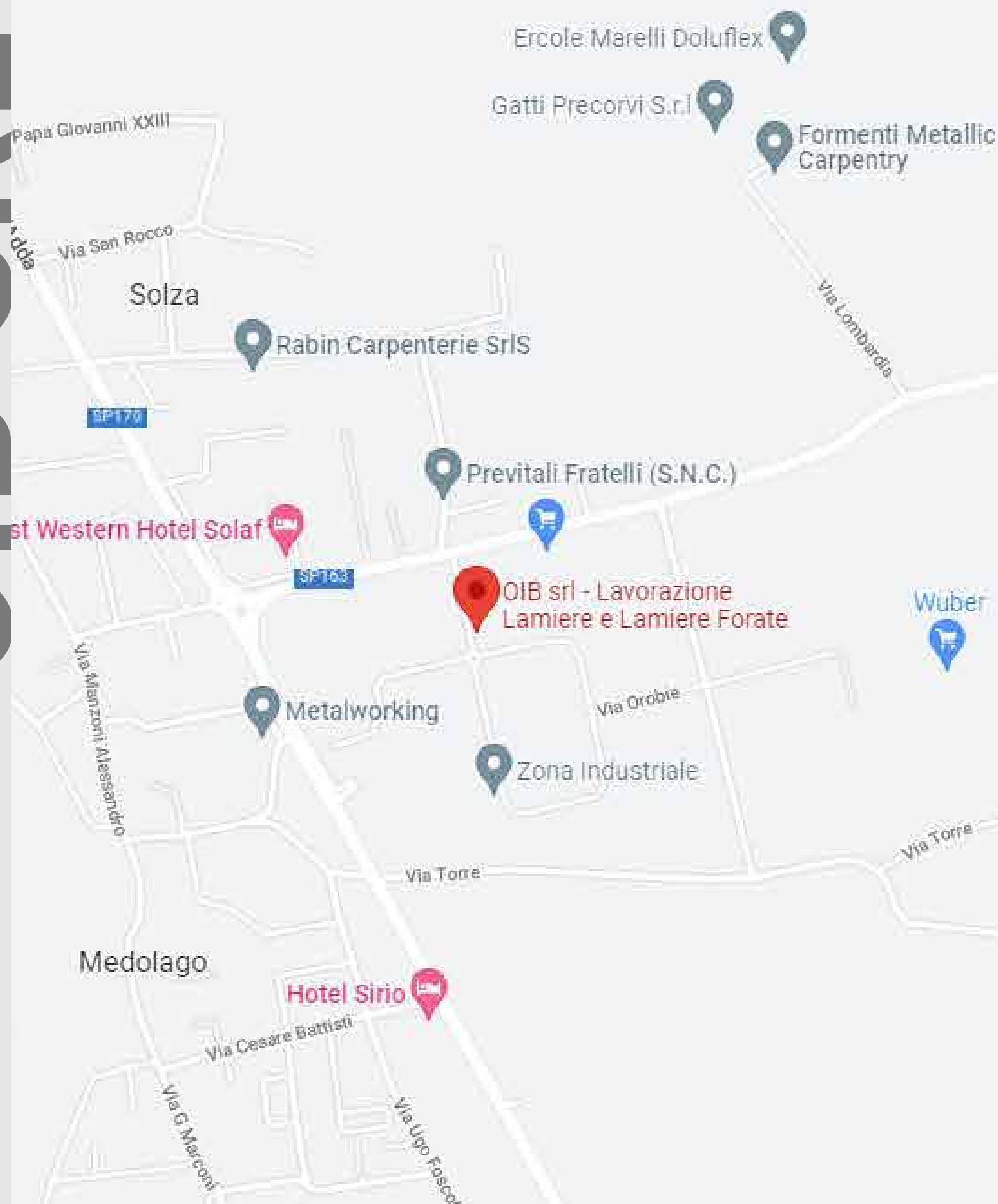
FIXED

APPLICATIONS

Perforated sheets are used in various environments:

- AGRICULTURE for beekeeping, fish farming, grain dryers, hammer mills, silo ventilation, sieves for threshers and de-cleaners
 - CONSTRUCTION for floors and stairs, walkways and railings, pipe and radiator covers, signs, ventilation grilles
 - CHEMICAL INDUSTRY for centrifuges, baskets, filters, pulverizers or atomizers
- ELECTRICAL ENGINEERING for distribution boards, separators for accumulators, electric cable supports, radiator covers
 - HOUSEHOLD APPLIANCES for washing machine filters, washing machine drums, burners, stove coverings
- FOOD INDUSTRIES for cheese wheels, mills, debarkers and coffee roasters, tea sieves, presses, dryers for legumes, fruit and pasta
 - GAS INDUSTRIES for gas purifiers, rotary and vibrating screens
 - AUTOMOTIVE INDUSTRIES for flooring and steps, oil filters, silencers, radiator covers, air filters
 - MINING INDUSTRIES for elevator buckets, mine cages, coal washeries, rotary and vibrating screens
- INDUSTRIAL BUILDING for smoke and dust abatement systems, humidification systems for walking air, anti-noise coatings for engine test rooms
 - NAVAL CONSTRUCTION for platforms, ladders and walkways, supports or walkways for electric cables, silencers
 - PAPER MILLS for filters, paper pulp diffuser bottoms, washeries and classification
 - QUARRIES AND FURNACES for drying panels, elevator buckets, crusher feed chutes, ovens, rotary and vibrating screens
- RAILWAYS for flooring, containers and carriages, steps, ventilation grilles, anti-noise panels, filters, radiator covers, luggage racks, spark arresters
 - SUGAR INDUSTRIES AND DISTILLERIES for diffuser gaskets, elevator cups, beet washing, pulp intakes, centrifuges
 - WATER SYSTEMS for survey pipes, filters, water purification
- GENERAL USES for acoustic insulation, air conditioning, air vents, ball mills, baskets, boxes, locker rooms, strainers, decorations, grids, supports

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