

## Refractories Service |

Company specialized in the production, installation, maintenance and technical assistance of refractory linings on any type of oven and plant in the various sectors and production processes.



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Engineering



Installation



Supply of materials



Preheating



Maintenance



Technical assistance



Tubes





**Engineering** | The experience gained over the years by the technical staff of Refractories Services, allows us to complete the supplies of new and repair work with special and dedicated solutions through detailed engineering drawings.

Specifically, we are able to complete graphic drawings with customized technical solutions for the various types of ovens, in the various production and situation sectors, specifically in refractory linings, but also in carpentry.

Our technical department can perform thermal calculations and thermographic checks for the coatings that we are going to perform

both on existing coatings. In the work group, professional technical figures have been included who also perform dimensional and static calculations for the works requested by the clients. All the works listed above are carried out "tailored" for each client.



**Installation** | Refractories Services srl SB is a company specialized in the construction, installation, maintenance and technical assistance of refractory linings on any type of furnace and plant, in the various sectors and production processes.

Our staff is continuously trained in the field of safety, to meet the new demands of the refractory linings market.

The technical skills of our workers allow us to carry out monitoring, to check the status of refractory linings, then perform scheduled and assisted demolitions, working in confined environments, respecting the rules applied.

In demolitions Refractories Services srl SB can use mechanical solutions, with pneumatic hammers applied to excavators or remote controlled robotic machines, or using breakers that are manually operated by the operators.

In the reconstructions Refractories Services srl SB can operate both in the laying of refractory linings in light or heavy masonry, also with the laying of large prefabricated elements, or through the application of insulating and dense refractory linings, either thrown on formworks or sprayed. through the ramming technique (pestle-resistant refractory material).



**Supply of materials** | The technical studies in the various types of systems together with the experience gained in the technical choice, allow Refractories Services srl SB to supply refractories suitable for the requested purpose.

The technical experience allows to identify the best performing materials by type of specific plant on which, Refractories Services srl SB intervenes in the various production sectors.

Collaborations with the primary suppliers in the market allow Refractories Services to supply all the refractory materials normally used, whether they are insulating or dense.

Precisely Refractories Services srl SB can supply ceramic fibers in rolls or panels, insulating bricks in different types of quality and density, dense bricks in the various compositions of alumina, silica, magnesite, etc..., as well as for refractory insulating and dense concrete available in different densities and methods of application.



**Preheating** | Preheating plays a decisive role in the completion of the refractory linings, in fact the correct execution of this operation, necessary to extract the mixing water, in the concrete and to stabilize the humidity in the brick linings, can condition the yield and duration of the same.

Refractories Services srl SB has burner ramps that can be fed either with methane gas or LPG gas, which can be adjusted automatically and manually, to optimally carry out Pre-Heating operations.

The burner ramps are equipped with electronic adjustment and flame control instruments, as well as temperature recording instruments through different types of thermocouples, K, S, T, to reproduce reports of the layouts performed, with respect to the diagrams required.



**Maintenance** | The maintenance of refractory linings, are very important operations, both for the yield of the plants and for the guarantee of the production of the same.

Refractories Services srl SB in maintenance is a complete company, as we can follow our customers from the shutdown phase of the plant, then in the inspection and verification inspections, to complete their work in partial or total demolition and in subsequent reconstructions.

The workings in refractory linings are also completed by repairs and assembling of structural work, welded anchorages or necessary brackets, including specialized weldings.

The greatest merit of our staff is the flexibility to collaborate with the needs required by the construction site and necessary in the course of processing, to meet the final result of a well-executed job within the scheduled and scheduled times.



**Technical assistance** | The professionalism required in the field of refractory linings has reached very high levels, customers increasingly need to be supported by professionals with proven experience in the field of refractory linings.

Refractories Services srl SB can, on request, provide highly specialized and professionally trained personnel to supervise the works that the client has decided to entrust to other assembly companies.

Our staff, in addition to being prepared for reading and interpreting the drawings, has the ability to advise on how to simplify the

organization of the site, from the point of view of timing, workforce and yield.

In the operations that we can perform, we also indicate the appraisal operations as proof of the state of fact, calculation and estimate of the most correct works to be performed, considering above all the safety of the plants and the operators.