



VATROSTALAC

PROIZVODNJA VATROSTALNIH I KERAMIČKIH PROIZVODA I TRGOVINA



REFRACTORIES

CHAMOTTE WORKS FOR ALL TYPES OF THERMAL INSTALLATIONS

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ABOUT US

Company Vatrostalac was founded in 1988 in Krapina as a family owned business, as it still is today. It is engaged in **the production of refractory powder materials** with a production facility located in Krapina, and in cooperation with a renowned European manufacturer supplies its customers with **high-quality fireclay bricks for industrial use**. Due to the high demand from the customers for chamotte works services at the market, over the years the company also set up their own team for chamotte works. With this service, the company is able to carry out the complete industrial furnace and boiler chamotte repair (turnkey project) with **its own highly skilled personnel** and with supervision of in-house engineers.

With its knowledge, experience and professional approach, the company Vatrostalac has gained the trust of a large number of clients from all over Croatia, the region, and the EU. Although the offer is based on standardized articles and products ordered by the industry, **each client is approached individually** and the company is able to offer non-standard solutions, all in accordance with the individual needs of customers.

MISSION

To be a long-term and a reliable supplier to all the companies that use refractory materials in their daily operations.

VISION

To become a leading supplier of refractory materials in Croatia as well as to become the leading provider of chamotte works services in Croatia.

- OVER 35 YEARS OF EXPERIENCE
- IN HOUSE PRODUCTION
- HIGH QUALITY



OUR PRODUCTS AND SERVICES:

1. Refractory powder materials
2. Refractory bricks
3. Chamotte works for all types of thermal installations

In-house production of refractory concrete

In 2026, we equipped our production facility with a new machine for the simultaneous production and packaging of refractory concrete. All products are supplied in 25 kg paper bags, ensuring long-term protection of the material while also facilitating easier handling during installation.



1. Refractory powder materials

Within our factory in Krapina, we have been producing refractory powder materials for over 35 years. Our offer consists of several types of materials that depend on the method of application and chemical and physical-thermal characteristics. Powder materials are created by mixing several types of raw materials, and in contact with water they become finished highly refractory products.

Products from our production are controlled periodically in independent laboratories (as a final product) and in the suppliers' laboratories (as a semi-finished product), which ensures the constant quality of our products.

Refractory Concrete – General Description

Refractory concrete is a monolithic refractory material based on calcium aluminate cement, additives and selected refractory aggregates. It is intended for the construction of monolithic linings in industrial thermal installations. Depending on the material type and installation conditions, it is installed by casting, vibration casting or gunning.

They are used to construct linings for boilers, industrial furnaces, cyclones, flue-gas ducts, combustion chambers, hot-gas ducts and other plant components exposed to high temperatures, mechanical wear and temperature fluctuations.

The selection of the appropriate type of refractory concrete depends on the operating temperature, mechanical loads, chemical exposure and the plant's operating conditions.

CLASSIFICATION by composition and cement content

Standard Refractory Concrete (CC – Conventional Castable)

Low-Cement Refractory Concrete (LCC – Low Cement Castable)

Ultra-Low-Cement Refractory Concrete (ULCC – Ultra Low Cement Castable)

Insulating Refractory Concrete

Classification of refractory concrete by composition and cement content

Standard Refractory Concrete (CC – Conventional Castable)

Standard refractory concrete based on calcium aluminate cement is used in a wide range of industrial applications. It provides good mechanical strength, resistance to elevated temperatures and relatively straightforward installation.

Applications:

- Boilers
- Industrial furnaces
- Flue-gas ducts
- Cyclones
- Hot-gas ducts

Low-Cement Refractory Concrete (LCC – Low Cement Castable)

Low-cement refractory concrete contains less cement and a higher proportion of fine refractory components, resulting in lower porosity, higher mechanical strength and improved resistance to wear and chemical attack.

Applications:

- High-wear zones
- Cyclones
- Combustion chambers
- Industrial furnaces
- Cement industry

Ultra-Low-Cement Refractory Concrete (ULCC – Ultra Low Cement Castable)

Ultra-low-cement refractory concrete is a high-performance refractory material with a very low cement content. Following heat treatment, it develops a dense ceramic structure with high resistance to temperature, wear and chemical attack.

Applications:

- Metallurgical industry
- Cement plants
- Petrochemical industry
- Extremely demanding service areas

Insulating Refractory Concrete

Insulating refractory concrete has a low bulk density and low thermal conductivity. It is used as an insulating backup layer behind the working lining or as a stand-alone lining in lower-temperature zones.

Applications:

- Boiler insulation layers
- Flue-gas ducts
- Backup linings
- Hot-water pipelines

OVERVIEW OF REFRACTORY CONCRETE

Product Name	Concrete Type	Al ₂ O ₃	Maximum Service Temperature (°C)	Bulk Density (kg/m ³)	Installation Method	Applications
Standard refractory concrete	CC	40 – 60	1450 – 1700	2000 – 2400	Casting vibration casting	General applications, boilers and ducts
Low-cement refractory concrete	LCC	60 – 80	1450 – 1700	2400 – 2900	Casting vibration casting	High-load and high-wear zones
Ultra-low-cement refractory concrete	ULCC	Above 80	1600 – 1800	2600 – 3100	Casting	Extremely demanding service areas
Insulating refractory concrete	IZOL	25 - 40	900 – 1300	800 – 1600	Casting	Insulating layer

Installation Method

Refractory concrete is installed using the following methods:

- **casting**
- **vibration casting**
- **gunning**

The installation method is selected according to the material type, lining thickness and operating conditions within the plant.

Following installation, the lining must undergo controlled dry-out and initial heat-up to achieve optimum material properties and prevent damage caused by the rapid evaporation of water.

Areas of Application

Refractory concrete is used throughout industrial thermal installations, particularly in:

- **energy plants**
- **the cement industry**
- **the metallurgical industry**
- **foundries**
- **the chemical industry**
- **waste-incineration plants**
- **lime-production plants**
- **district-heating plants**

General-Purpose Refractory Concrete Manufactured In-House (K6, K7, K8 and K9)

K6, K7, K8 and **K9** are standard refractory concrete grades based on calcium aluminate cement, refractory aggregates and additives. They are intended for monolithic linings in thermal installations where extreme mechanical loads and chemical exposure are not present.

Applications:

Flue-gas ducts
Hot-gas ducts
Backup linings
Industrial furnaces and boilers
Hot-water pipelines

Key Properties:

Good resistance to elevated temperatures
Good mechanical strength
Good resistance to temperature fluctuations
Easy installation
Good chemical resistance

Benefits:

Versatile application
Good price-to-performance ratio
Easy handling and installation

TECHNICAL DATA

Parameter	Value
Al ₂ O ₃ (%)	41 – 48
Service Temperature (°C)	1300 – 1600
Bulk Density (kg/m ³)	2100 – 2300
Compressive Strength (MPa)	20 – 69
Porosity (%)	9 – 16
Linear Shrinkage (%)	0.23 – 0.33
Mixing Water Addition (%)	7.5 – 12.0

Installation Notes:

The material is installed by casting or vibration casting into prepared formwork. Following installation, controlled dry-out and initial heat-up must be carried out in accordance with the specified heating schedule.

Refractory Concrete for Industrial Thermal Installations (K10)

K10 is a standard high-alumina refractory concrete intended for linings exposed to higher temperatures, mechanical loads, wear and demanding operating conditions.

Applications:

Boilers
Combustion chambers
Flue-gas ducts
Cyclones
Industrial furnaces
High-wear zones
Metallurgical plants

Key Properties:

Enhanced high-temperature resistance
Good mechanical strength
Thermal-shock resistance
Good wear resistance

Benefits:

Wide range of applications
Good lining service life
Reliable performance under industrial operating conditions
Suitable for demanding operating conditions
Reduced maintenance costs

TECHNICAL DATA

Parameter	Value
Al ₂ O ₃ (%)	72
Service Temperature (°C)	1350 - 1730
Bulk Density (kg/m ³)	2700
Compressive Strength (MPa)	93
Porosity (%)	22
Linear Shrinkage (%)	0.22
Mixing Water Addition (%)	7 - 10

Installation Notes:

The material is installed by casting or vibration casting. It must be properly mixed with the specified amount of water and placed into prepared formwork with vibration to achieve the required density. Thorough vibration is recommended to obtain maximum density and mechanical strength.

Refractory Gunning Concrete (K7T)

K7T is a refractory gunning concrete designed for pneumatic installation by the gunning/shotcreting process. Specially formulated for machine application, the material adheres well to the substrate, sets rapidly and can be installed without formwork, making it ideal for repairs and linings in industrial plants.

Applications:

Repairs to refractory linings
Industrial furnaces
Boilers
Cyclones
Combustion chambers
Flue-gas ducts
Severe-abrasion zones
Hard-to-access areas
where cast installation is not possible

Key Properties:

Installation without formwork
Rapid setting
Good adhesion to existing and new substrates
Good abrasion resistance
High-temperature resistance
Suitable for repairs and new linings

Benefits:

Rapid installation
Reduced plant downtime
Suitable for application to vertical and overhead surfaces
Long lining service life
Ideal for repair work

TECHNICAL DATA

Parameter	Value
Al ₂ O ₃ (%)	40
Service Temperature (°C)	1350 - 1400
Bulk Density (kg/m ³)	2200
Compressive Strength (MPa)	36
Porosity (%)	14.5
Linear Shrinkage (%)	0.23
Mixing Water Addition (%)	11 - 15

Installation Notes:

The material is installed by gunning using suitable dry- or wet-process application equipment. The substrate must be free of dust, grease and loose particles. Following installation, controlled dry-out and initial heat-up must be carried out in accordance with the specified heating schedule.

LCC – Low-Cement Refractory Concrete

LCC is a low-cement refractory concrete with a high proportion of fine refractory components, enabling high density, strength and resistance to abrasion and chemical attack.

Low-cement refractory concrete is engineered to reduce porosity and increase mechanical strength, providing significantly better resistance to abrasion, chemical attack and high temperatures than standard refractory concrete.

Applications:

Cyclones
High-wear zones
Combustion chambers
Cement industry
Industrial furnaces

Key Properties:

High mechanical strength
Low porosity
High abrasion resistance
Good resistance to chemical attack

Benefits:

Longer service life than standard refractory concrete
Suitable for demanding operating conditions
High wear resistance

TECHNICAL DATA

Parameter	Value
Al ₂ O ₃ (%)	60 - 80
Service Temperature (°C)	1450 - 1700
Bulk Density (kg/m ³)	2400 - 2900
Compressive Strength (MPa)	60 - 100
Porosity (%)	12 - 18
Linear Shrinkage (%)	0.3 - 0.8
Mixing Water Addition (%)	4.5 - 6.5

Installation Notes:

The material requires a precisely controlled amount of water and intensive mixing. It is installed by vibration casting. Controlled dry-out must be completed before the plant is commissioned.

ULCC – Ultra-Low-Cement Refractory Concrete

ULCC is a high-purity, high-density ultra-low-cement refractory concrete designed for the most demanding operating conditions involving high temperatures and severe mechanical and chemical loads.

Ultra-low-cement refractory concrete is engineered to reduce porosity and increase mechanical strength, providing significantly better resistance to abrasion, chemical attack and high temperatures than standard refractory concrete.

Applications:

Metallurgical industry
Cement plants
Petrochemical industry
Extremely demanding service areas

Key Properties:

Very high mechanical strength
Very low porosity
High-temperature resistance
High resistance to chemical attack and abrasion

Benefits:

Very long service life
Suitable for the most demanding operating conditions
Reduced plant maintenance costs

TECHNICAL DATA

Parameter	Value
Al ₂ O ₃ (%)	70 - 95
Service Temperature (°C)	1600 - 1800
Bulk Density (kg/m ³)	2600 - 3100
Compressive Strength (MPa)	80 - 150+
Porosity (%)	8 - 15
Linear Shrinkage (%)	0.2 - 0.6
Mixing Water Addition (%)	3.5 - 5

Installation Notes:

Installation requires the exact specified amount of water, together with thorough mixing and vibration. Dry-out and initial heat-up must be carried out under controlled conditions in accordance with the specified heating schedule.

Ultra-low-cement refractory concrete is engineered to reduce porosity and increase mechanical strength, providing significantly better resistance to abrasion, chemical attack and high temperatures than standard refractory concrete.

Insulating Refractory Concrete (IZOL 6, IZOL 7 and IZOL 8)

IZOL 8 is a lightweight insulating refractory concrete designed for thermal-insulation layers in thermal installations.

Applications:

Boiler insulation layers
Backup linings
Flue-gas ducts
Hot-water pipelines

Key Properties:

Low bulk density
Low thermal conductivity
Good high-temperature resistance

Benefits:

Reduced heat losses
Reduced lining weight
Improved plant energy efficiency

IZOL 6 and **IZOL 7** are insulating refractory concrete grades with higher strength than IZOL 8. They are intended for insulating layers exposed to moderate mechanical loads.

Applications:

Boiler insulation layers
Backup linings
Industrial furnaces
Flue-gas ducts

Key Properties:

Good thermal-insulation properties
Higher mechanical strength than lightweight insulating refractory concrete
Resistance to elevated temperatures

Benefits:

Combination of insulating properties and mechanical resistance
Extends the service life of the working lining
Reduces heat losses

TECHNICAL DATA

Parameter	Value, IZOL 8	Value, IZOL 6 and IZOL 7
Al ₂ O ₃ (%)	28	36 - 40
Service Temperature (°C)	950 - 1300	1100 - 1470
Bulk Density (kg/m ³)	1100	1700 - 1950
Compressive Strength (MPa)	2.1	7 - 9,5
Porosity (%)	47	22 - 29
Linear Shrinkage (%)	1.9	0.6 - 0.8
Mixing Water Addition (%)	40 - 45	16 - 25

Installation Notes:

IZOL 8 The material is installed by casting. It must not be subjected to intensive vibration, as this could increase its density and reduce its insulating properties.

IZOL 6 and **IZOL 7** The material is installed by casting with light compaction. Controlled dry-out must be completed before the plant is commissioned.

Refractory Mortar (MZ 36 and MZ 37)

MZ 36 and **MZ 37** are refractory bonding mortars intended for laying and jointing shaped refractory products such as refractory chamotte bricks. Formulated from refractory raw materials and binders, they provide good adhesion, high-temperature resistance and compatibility with refractory products.

Applications:

Laying refractory
chamotte bricks

Jointing refractory linings

Industrial furnaces

Boilers

Flue-gas ducts

Combustion chambers

Key Properties:

Good adhesion to refractory
products

High-temperature
resistance

Compatibility with different
brick grades

Easy preparation and
application

Stability at elevated
temperatures

Benefits:

Provides a strong, durable
bond between refractory
units

Helps prevent gas and heat
penetration through joints

Long lining service life

Easy on-site application

TECHNICAL DATA

Parameter	Value
Al ₂ O ₃ (%)	37 - 41
Service Temperature (°C)	1020 – 1760
Bulk Density (kg/m ³)	1600 - 1800
Mixing Water Addition (%)	15 - 24

Installation Notes:

Prepare the mortar by adding the specified amount of water until the required consistency is achieved. Apply it manually in a thin layer between the refractory units. All surfaces must be clean and free of dust. Following installation, the lining must undergo controlled dry-out and initial heat-up.

Refractory powder materials

Refractory powder materials are intended for the repair, maintenance and installation of specialised refractory linings. They are an ideal solution for repairs, maintenance and specialised refractory lining applications.

Our product range includes:

Gunning/shotcrete mixes – pneumatically applied materials that set rapidly and provide good adhesion to the substrate.

Plastic refractories – highly workable materials applied manually or with tools to complex lining sections.

Repair mixes – rapid-setting, high-strength materials for repairing damaged refractory linings

Applications

They are used to repair and restore refractory linings in industrial furnaces, boilers, cyclones, hot-gas ducts and other thermal installations.

Note

We supply these materials in cooperation with our trusted business partners and provide technical support and installation advice.

TABLE – REFRACTORY MASSES

Product Name	Mix Type	Key Properties	Applications	Installation Method	Notes
Refractory gunning concrete	Gunning / Shotcrete	Rapid setting; good adhesion	Industrial furnaces, combustion chambers and cyclones	Gunning	Recommended for high-wear zones
Plastic refractory	Plastic	High workability; high-temperature resistance	Repairs to complex lining sections	Manual or machine application	Ideal for geometrically complex areas
Repair mix	Repair	Rapid setting; high strength	Repair of damaged linings	Manual application	Technical support and installation guidance available

STANDARD REFRACTORY CONCRETES (RC-CAST) AND GUNNING CONCRETES

CLASS by Al ₂ O ₃	Density	Base	Grain	Max App. Temp.	(Al ₂ O ₃ + TiO ₂) min	Com- pressive Strength, 110°C, min	Com- pressive Strength, 1100°C, min	Th. Cond. 800°C	Th. Exp. 1200°C	Linear Exp. at 1000°C	Thermal Stability	Bond	Water per 100 kg
	Vol. Mass		mm	°C	%	Mpa	Mpa	W/mK	W/mK	%	Cycles		L/100 kg
K-7	2.20	Bauxite	0-3/0-6	1660	68	60	40	1.36	1.42	0.60	30	hydr.	9-17
K-10	2.80	Corundum	0-3/0-6	1780	86	100	51	2.20	2.12	0.14	30	hydr.	8-11
K-7T	2.20	Bauxite	0-3/0-6	1660	68	60	40	1.36	1.42	0.60	30	hydr.	9-17
K-10T	2.80	Corundum	0-3/0-6	1780	86	100	51	2.20	2.12	0.14	30	hydr.	8-11



Figure 1.
Refractory castable concrete K-7



Figure 2.
Refractory castable concrete K-10

THERMAL INSULATING REFRACTORY CONCRETE

Quality Grade	Limit Application Temp. °C	Maximum Application Temp. °C	Initial Setting Temp. °C	Bulk Weight, kg/ dm ³	Grain Size, mm	Thermal Cond., Kcal/mh °C		Bond Type
						500 °C	800 °C	
IZOL K-6	1150	1250	20	0.8	0-3/0-6	0.15	0.17	hydr.

REFRACTORY MORTAR

Quality Grade	Refractoriness	Limit Application Temp.	Max. Application Temp.	Initial Setting Temp.	% Al ₂ O ₃ + TiO ₂	% SiO ₂	Grain Size	Bond Type
	SK	°C	°C	°C			mm	
MZ-36	36	1400	1600	1200	60		0-1	cer.



Figure 3.
Refractory mortar MZ-36

The refractory materials listed above are part of our standard range, which is **always in stock** and **available for delivery within 48 hours**, with their application and quality confirmed by our customers on numerous projects, and as such they are produced on a regular basis.

For larger quantities, materials with different specifications can be produced – upon request, we can check what options are available.

2. Refractory bricks

Given the specificity of refractory brick production, which requires proximity to the primary raw materials (the mine) from which the bricks are produced, company Vatrostalac has been supplying bricks from trusted, renowned European manufacturers whose production traditions go back over 100 years.

In our offer, various formats of bricks are kept in stock as standard and in a quality suitable for industrial use and which can withstand high temperatures (>1,700 °C). By storing bricks and keeping stock, the company can react extremely quickly to customer needs, which has proven to be a great advantage over the competition.

Our product range includes:

Refractory chamotte bricks – available in standard and higher-duty grades, suitable for medium-temperature and wear-exposed zones.

High-alumina refractory chamotte bricks – with a high aluminium oxide content, for zones exposed to high temperatures and chemical attack.

Insulating refractory bricks – lightweight products with low thermal conductivity, intended for insulating layers.

Special shapes – radial and wedge-shaped units, slabs and other shaped products tailored to project requirements.

Applications

These products are used in boilers, furnaces, cyclones, flue-gas ducts and other thermal installations requiring modular, standardised products for precise installation and long-term durability.

Note

All the products listed above are stocked in limited quantities.

Shaped refractory products enable precise installation and long service life of refractory linings in industrial plants.

Their modular design, standardised dimensions and broad range of materials provide reliable protection of plant structures against high temperatures and chemical attack.

TABLE – SHAPED REFRACTORY PRODUCTS

Product Name	Material Type	Key Properties	Applications	Notes
Refractory chamotte brick	STV	Good temperature resistance up to 1,400 °C; good mechanical strength	Boilers, furnaces and combustion chambers	Standard brick
High-alumina refractory chamotte brick (VA)	STV 81	High Al ₂ O ₃ content; temperature resistance up to 1,550 °C; resistance to chemical attack	High-temperature zones; metallurgical industry	For demanding service conditions
Insulating refractory brick	SI 5/90	Low bulk density; low thermal conductivity; temperature resistance up to 1,000 °C	Insulating layers	Reduced heat losses
Special-shaped brick	STV	Standard or high-alumina grades, shaped for corners and transitions	Boilers, furnaces and cyclones	Easily adapted to project requirements
Slab	STV	Standard or high-alumina grades; various dimensions	Flat surfaces	Suitable for modular linings

REFRACTORY CHAMOTTE BRICKS

Product Name	Dry Pressing	Wet Pressing	Chemical Composition			Apparent Density, kg/dm ³	Porosity, Vol % max.	Compressive Strength, MPa	Refractoriness under Load, Ta (°C)	Thermal Expansion, % (°C)	Thermal Conductivity			Dimensional Tolerance	
			Al ₂ O ₃	SiO ₂	Fe ₂ O ₃						W/K-m (°C)			≤150	≥150
											400	700	1100	mm	%
STV	•		40	52	2	2150	19	30	1720	0.8 (1400)	1.2	1.3	1.4	± 2	± 2



Figure 4.
Refractory chamotte brick

Applications

Used in rotary and shaft kilns and boilers of various purposes. We offer various formats matching standard dimensions, and we can also supply brick made to custom sizes and customer requirements.

Packaging: Euro pallets, banded, wrapped in heat-shrink film.

Storage: In a closed, dry space (for a longer service life)

Warranty: 24 months.

HIGH-ALUMINA REFRACTORY CHAMOTTE BRICKS

Product Name	Dry Pressing	Wet Pressing	Chemical Composition			Ap- parent Density, kg/dm³	Porosity, Vol % max.	Com- pressive Strength, MPa	Refrac- toriness under Load, Ta °C	Ther- mal Expan- sion, % °C	Thermal Conductivity			Dimensional Tolerance	
			Al₂O₃	SiO₂	Fe₂O₃						W/K-m (°C)			≤150	≥150
											400	700	1100	mm	%
STV 81	•		61	36.5	1.1	2580	15	65	1870	0.8 (1400)	1.65	1.65	1.74	± 3	± 2



Figure 5.
High-alumina refractory chamotte bricks

Applications

Used in rotary and shaft kilns and boilers of various purposes. We offer various shapes matching standard dimensions, and we can also supply brick made to custom sizes and customer requirements.

Packaging: Euro pallets, banded, wrapped in heat-shrink film.

Storage: In a closed, dry space (for a longer service life).

Warranty: 24 months.

INSULATING REFRACTORY BRICKS

Product Name	Dry Pressing	Wet Pressing	Chemical Composition			Ap- parent Density, kg/dm³	Porosity, Vol % max.	Com- pressive Strength, MPa	Refrac- toriness under Load, Ta °C	Thermal Expan- sion % 1,000 °C	Thermal Conductivity			Dimensional Tolerance	
			Al₂O₃	SiO₂	Fe₂O₃						W/K-m (°C)			≤150	≥150
											400	600	800	mm	%
SL 5/90		•	25	-	2.5	540		2	900	0.25 (1100)	0.14	0.17	0.20	-	-



Figure 6.
Insulating refractory bricks

Applications

Used in rotary and shaft kilns and boilers of various purposes as an outer insulating brick to reduce heat spread. We offer various shapes matching standard dimensions, and we can also supply brick made to custom sizes and customer requirements.

Packaging: Euro pallets, banded, wrapped in heat-shrink film.

Storage: In a closed, dry space.

Warranty: 24 months.

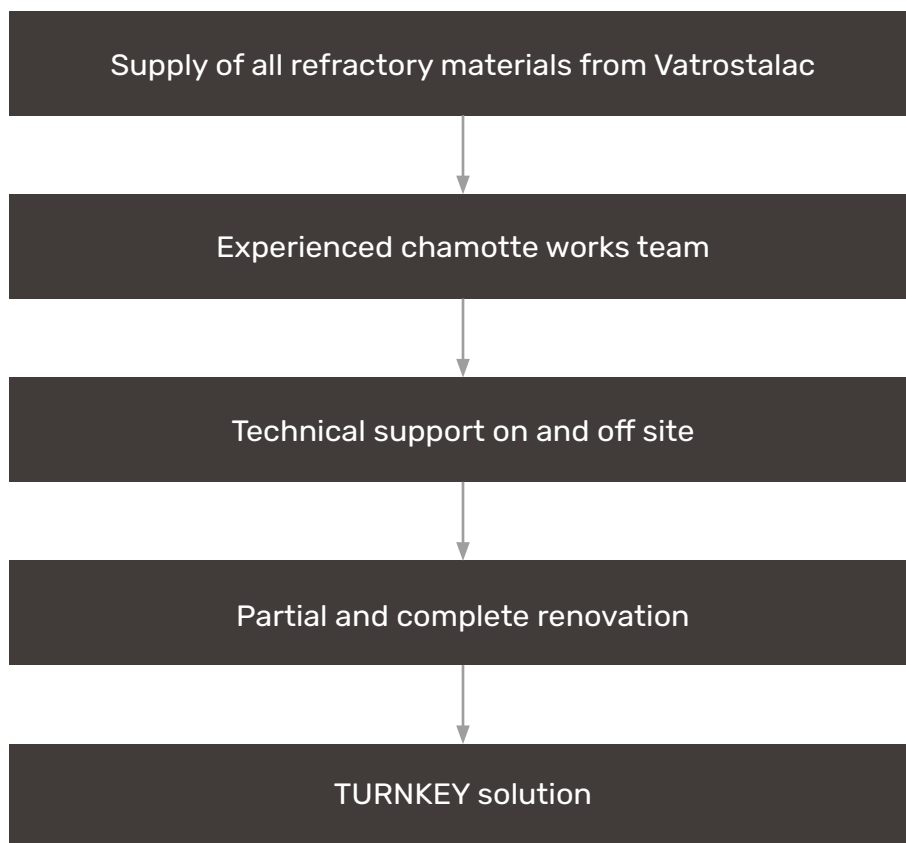
The refractory bricks listed above are part of our standard range, always in stock and available for immediate delivery, with their application and quality confirmed by our customers on numerous projects. Upon request, we can also offer specific shapes or brick grades, all in line with the requirements of a particular project.

3. Chamotte works for all types of thermal installations

As a manufacturer of refractory powder materials and a supplier of refractory bricks, the company Vatrostalac has often met the needs of customers on the market to offer a complete solution for renovating boilers and furnaces (as well as initial installation) in terms of refractory materials.

For the company to take advantage of the market's potential and provide pre-requisites for further growth and development, a team of experienced chamotte repair workers was formed. The projects we have worked on so far have been related to partial renovations of furnaces and boilers, but also complete renovations, from the demolition of all old materials to the installation of all new materials. Whether it is a cogeneration plant, a hot gas generator or a furnace for obtaining energy from wood waste, the company is ready for all challenges.

For technical questions, support is provided by our experienced engineer, who works closely with our installation team, rounding off the entire process.



RENOVATION

Before



After



Before

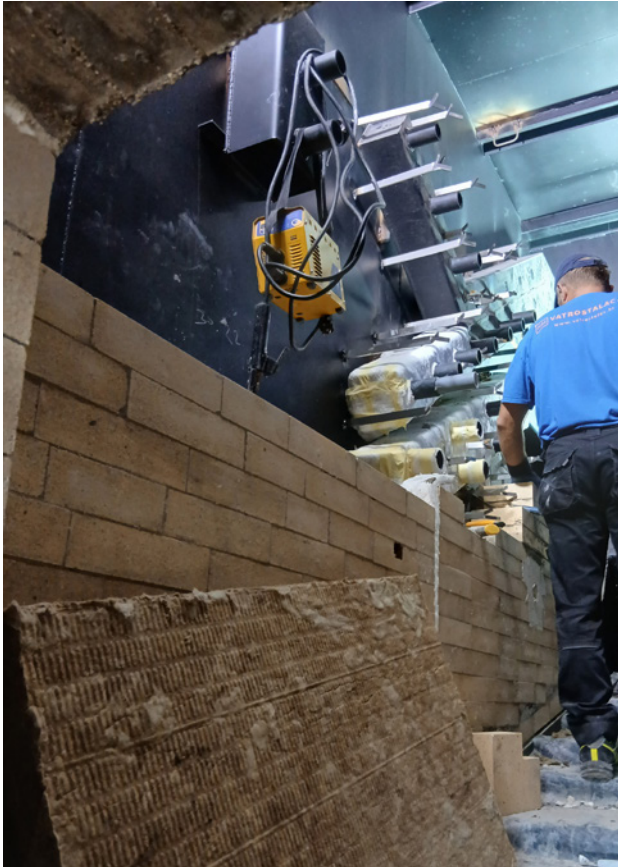


After



RENOVATION

Before



After



Before



After

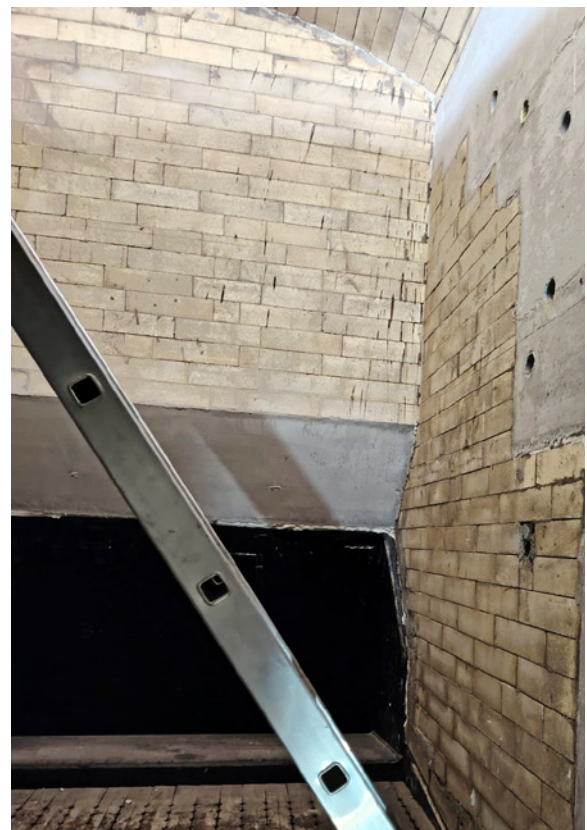
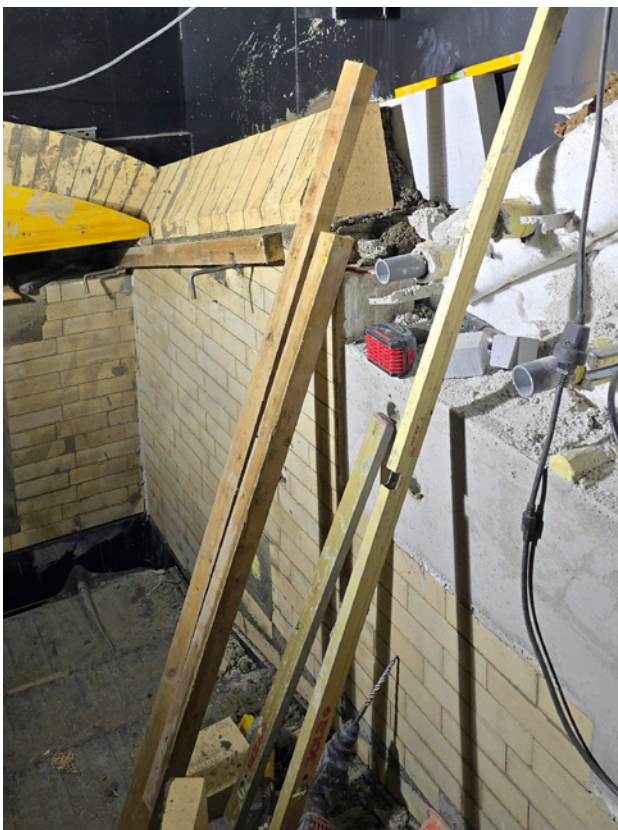


RENOVATION

Before



After



Before



After



REFERENCES





GIRK KALUN





VATROSTALAC KRAPINA

First name for refractory materials and
chamotte works in Croatia!



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