



TECHNOLOGY
AHEAD

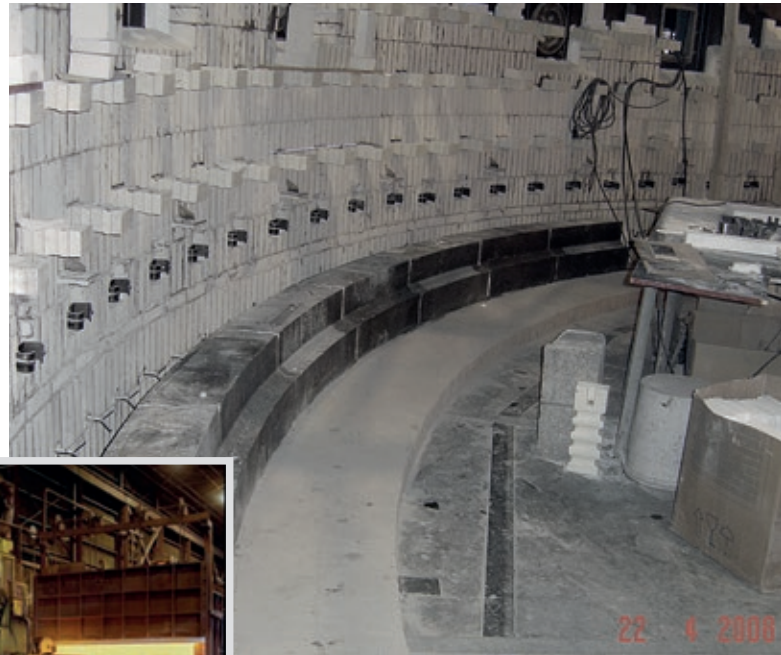
REHEATING FURNACE



REHEAT FURNACE

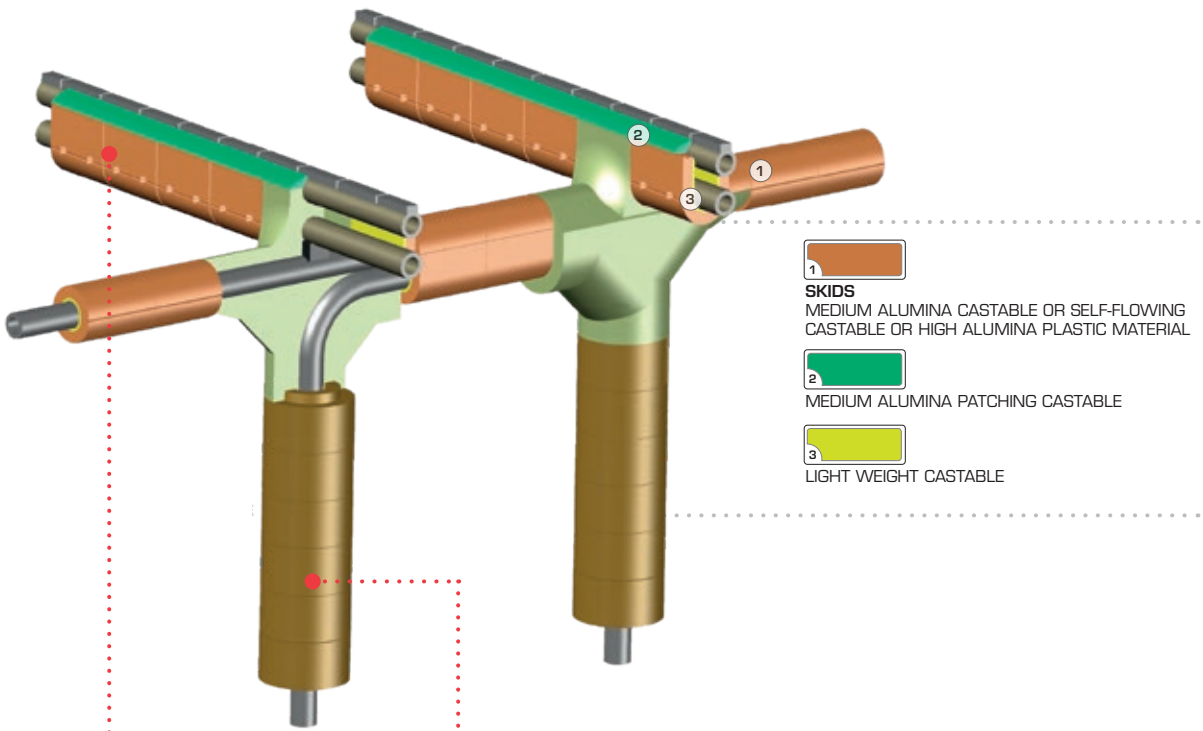
Seven can offer a complete state of the art environmentally friendly solution to meet the demands for saving energy along with environmental protection.

All the products have been developed to guarantee high quality performance and a high degree of innovation.

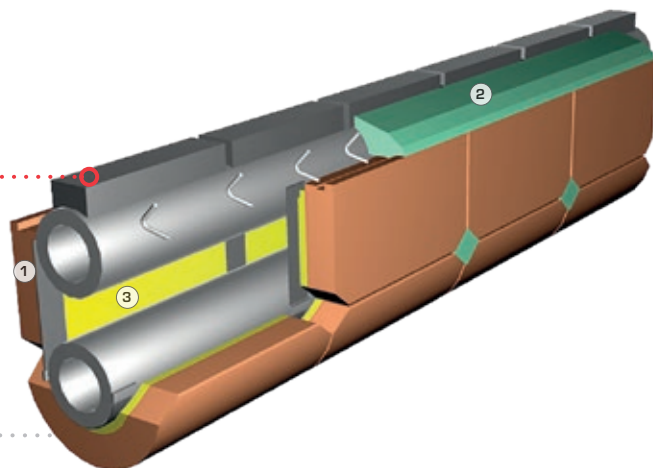
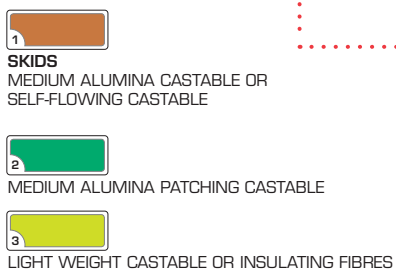
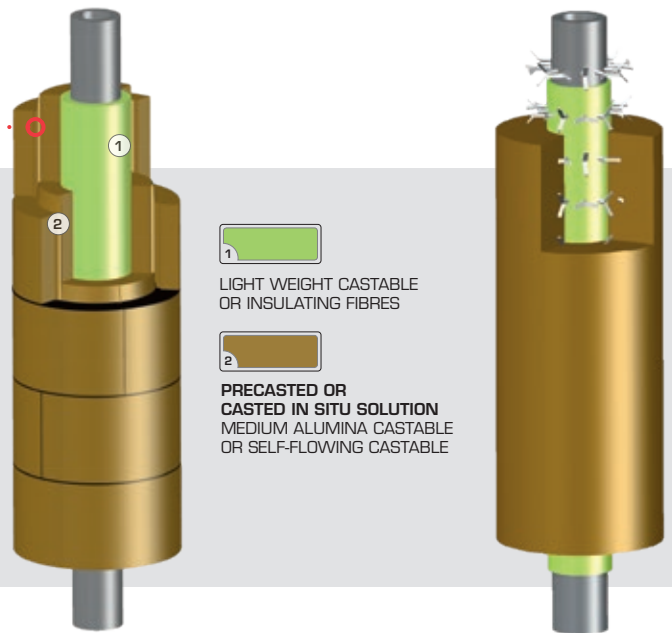


Seven Refractories provides a wide range of monolithic products maximizing furnace performance.



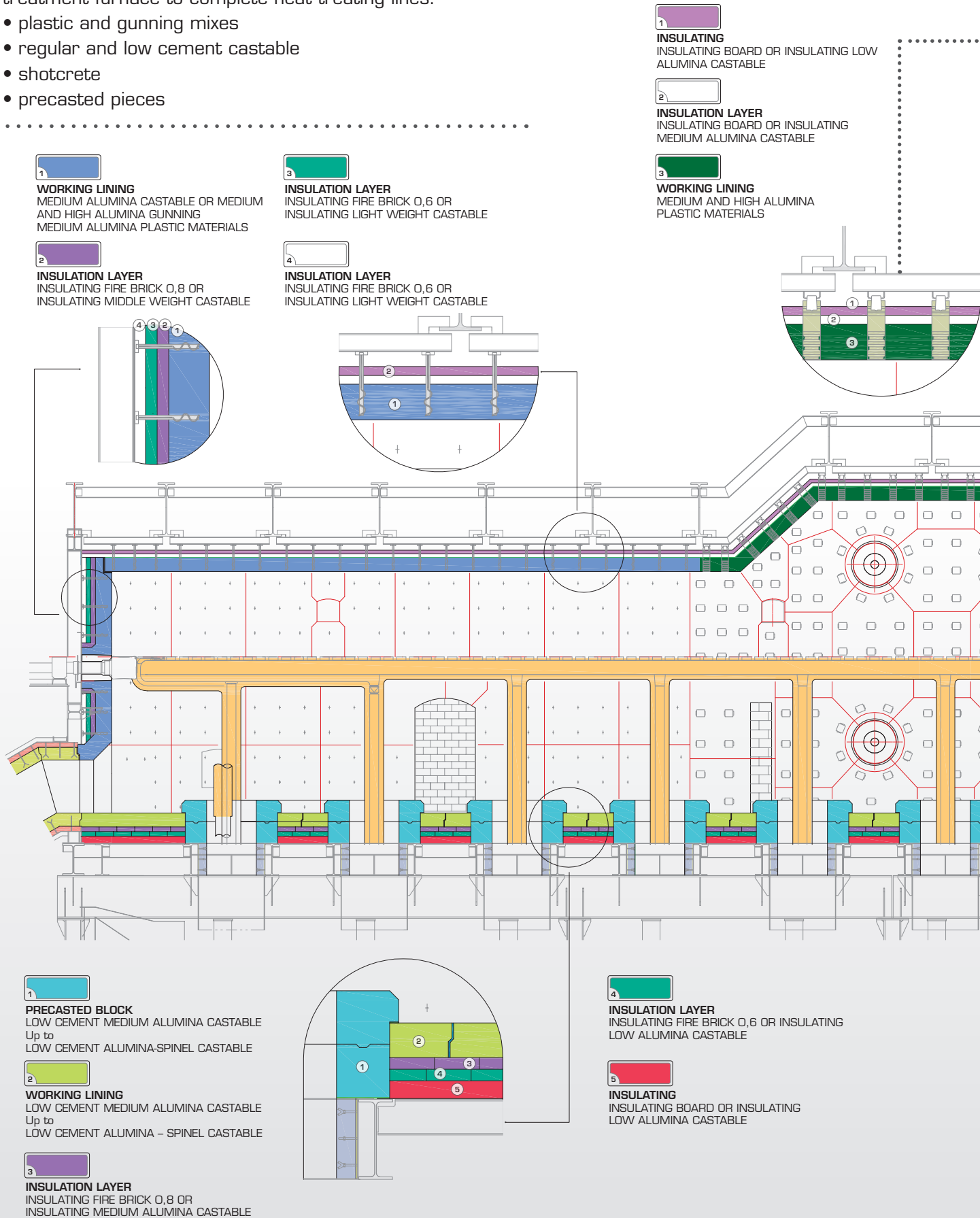


Refractory solutions and engineering design for: pusher, walking beam, walking hearth, rotary hearth, bogie, tunnel and annealing furnaces have been achieved and exceed customer expectations.



Our products are tailored to any cost effective thermal process with the target to enhance the steel surface quality from the simplest stand-alone heat treatment furnace to complete heat treating lines:

- plastic and gunning mixes
- regular and low cement castable
- shotcrete
- precasted pieces



1
WORKING LINING
MEDIUM ALUMINA CASTABLE OR MEDIUM AND HIGH ALUMINA GUNNING
MEDIUM ALUMINA PLASTIC MATERIALS

2
INSULATION LAYER
INSULATING FIRE BRICK 0,8 OR
INSULATING MIDDLE WEIGHT CASTABLE

3
INSULATION LAYER
INSULATING FIRE BRICK 0,6 OR
INSULATING LIGHT WEIGHT CASTABLE

4
INSULATION LAYER
INSULATING FIRE BRICK 0,6 OR
INSULATING LIGHT WEIGHT CASTABLE

1
INSULATING
INSULATING BOARD OR INSULATING LOW ALUMINA CASTABLE

2
INSULATION LAYER
INSULATING BOARD OR INSULATING MEDIUM ALUMINA CASTABLE

3
WORKING LINING
MEDIUM AND HIGH ALUMINA PLASTIC MATERIALS

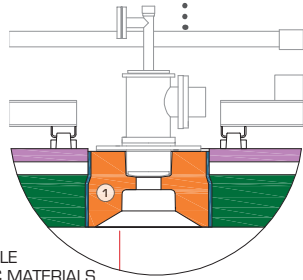
1
PRECASTED BLOCK
LOW CEMENT MEDIUM ALUMINA CASTABLE
Up to
LOW CEMENT ALUMINA-SPINEL CASTABLE

2
WORKING LINING
LOW CEMENT MEDIUM ALUMINA CASTABLE
Up to
LOW CEMENT ALUMINA - SPINEL CASTABLE

3
INSULATION LAYER
INSULATING FIRE BRICK 0,8 OR
INSULATING MEDIUM ALUMINA CASTABLE

4
INSULATION LAYER
INSULATING FIRE BRICK 0,6 OR INSULATING LOW ALUMINA CASTABLE

5
INSULATING
INSULATING BOARD OR INSULATING LOW ALUMINA CASTABLE



1
BURNERS
LOW AND ULTRA LOW CEMENT
MEDIUM AND HIGH ALUMINA CASTABLE
MEDIUM AND HIGH ALUMINA PLASTIC MATERIALS



1
WORKING LINING
MEDIUM ALUMINA CASTABLE OR MEDIUM
AND HIGH ALUMINA GUNNING
MEDIUM ALUMINA PLASTIC MATERIALS



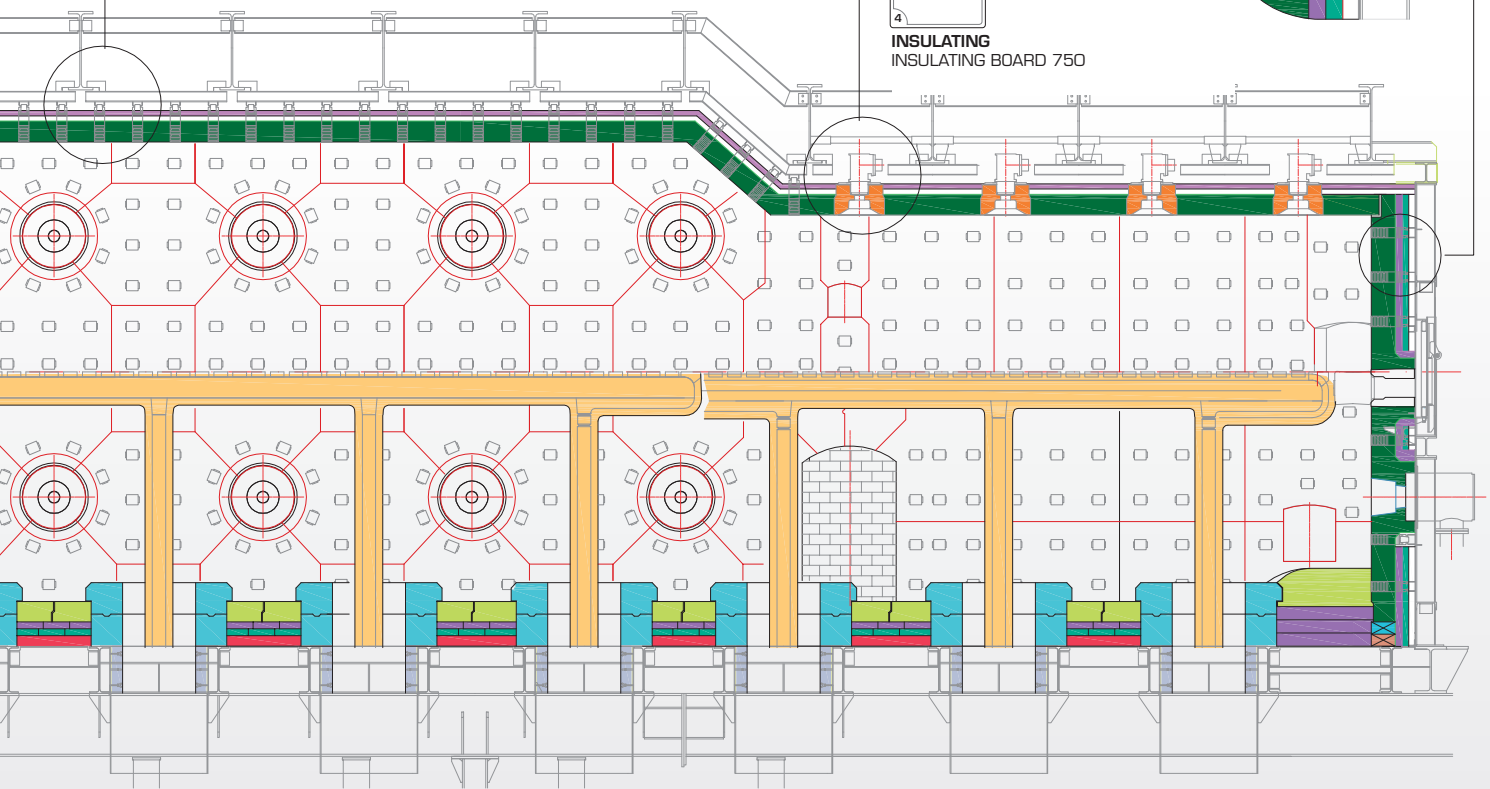
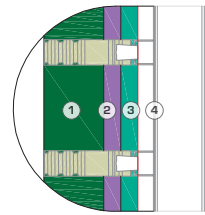
2
SAFETY LINING
INSULATING FIRE BRICK 0,8 OR
INSULATING MIDDLE WEIGHT CASTABLE

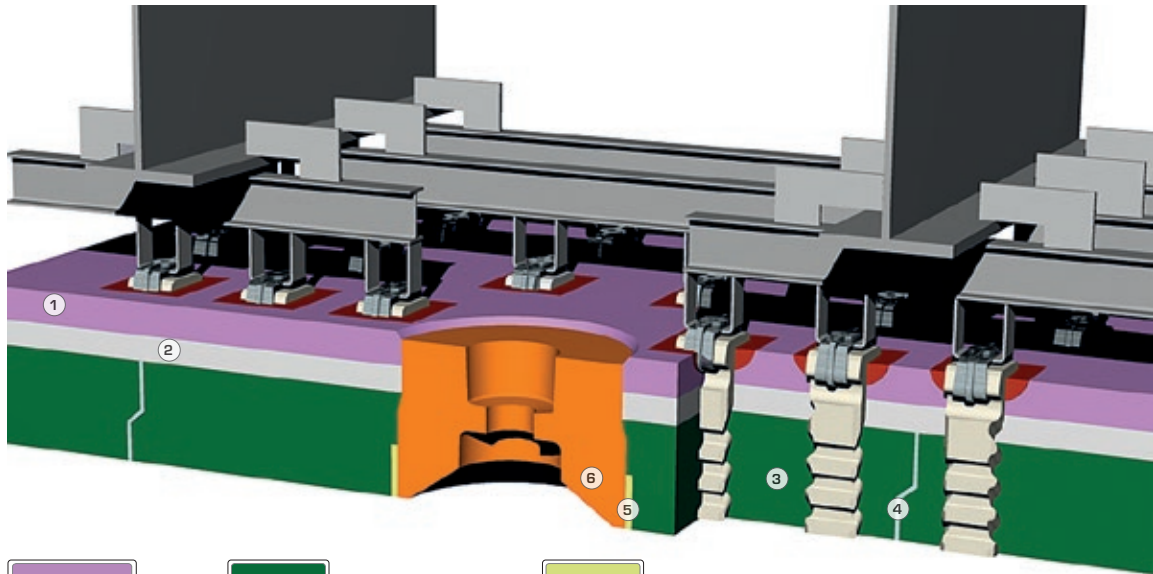








3
SAFETY LINING
INSULATING FIRE BRICK 0,6 OR
INSULATING LIGHT WEIGHT CASTABLE

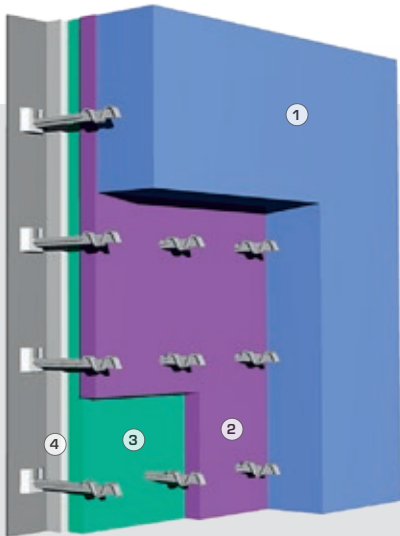



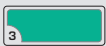
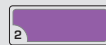
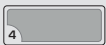
4
INSULATING
INSULATING BOARD 750

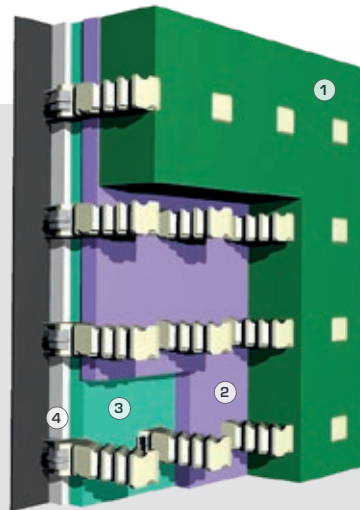



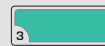

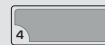


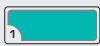

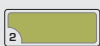


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INSULATING CASTABLE
OR CERAMIC FIBER | 
PLASTIC OR CASTED OR PRECASTED
SOLUTION 60-70% Al_2O_3 | 
EXPANSION JOINT, CERAMIC FIBRE |
| 
INSULATING CASTABLE | 
COMPENSATION JOINT
CERAMIC FIBRE | 
PRECASTED SOLUTION 60-70% Al_2O_3 |

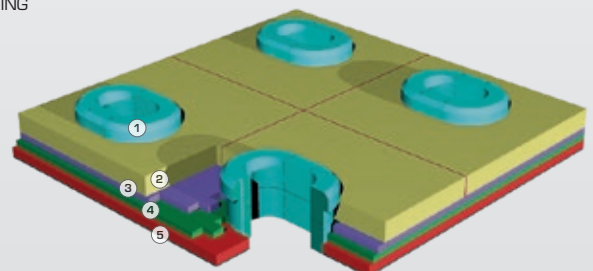


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PLASTIC OR GUNNING
SHOTCRETING 45-50% Al_2O_3 | 
INSULATING GUNNING OR CERAMIC FIBRE |
| 
INSULATING GUNNING | 
INSULATING FIBRE |



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| 
PLASTIC OR GUNNING
OR SHOTCRETING 60-70% Al_2O_3 | 
INSULATING GUNNING
OR CERAMIC FIBRE |
| 
INSULATING GUNNING | 
INSULATING FIBRE |

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| 
PRECASTED BLOCK
LOW CEMENT MEDIUM ALUMINA CASTABLE
Up to - LOW CEMENT ALUMINA-SPINEL CASTABLE | 
INSULATION LAYER
INSULATING FIRE BRICK 0,6 OR INSULATING
LOW ALUMINA CASTABLE |
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WORKING LINING
LOW CEMENT MEDIUM ALUMINA CASTABLE
Up to - LOW CEMENT ALUMINA - SPINEL CASTABLE | 
INSULATING
INSULATING BOARD OR INSULATING
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| 
INSULATION LAYER
INSULATING FIRE BRICK 0,8 OR
INSULATING MEDIUM ALUMINA CASTABLE | |



ENGINEERING AND SOLUTIONS

The construction of any reheating furnace has several solutions, by either adopting the classical brick lining, or combination with monolithic materials.

The installation techniques are various depending on materials used, i.e. castable, ramming, gunning or shotcreting, in some furnaces precast pieces may even be considered.

The target in terms of technology, time frame, type of installation and budget available may address and/or influence the engineering solution.

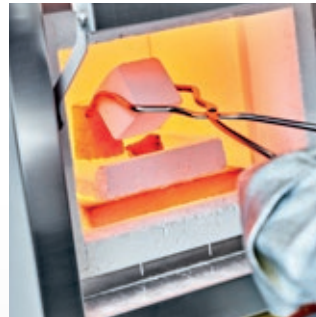


RESEARCH AND SUSTAINABLE DEVELOPMENT

Seven Refractories has incorporated environmental concerns about climate change in its innovative approach to the market; not only in making our factory more electrically independent by using renewable energy sources, but in the entire manufacturing process cycle and quality control.

Respect of the environment is a core value of Seven Refractories.

Selection of the raw materials, dedicated and oriented research, composition architecture and on the field technical experts are the key-points for outstanding efficiency and reliability of the refractory linings, excellent control of the thermal load distribution and low product variability in time.



TESTING



PRODUCTION



SERVICES PROVIDED

- Preliminary study and investigation for the entire project
- Design and architecture including bill of materials and thermal calculation
- Full range of products for lining and maintenance
 - Regular, low, ultra-low and no-cement castable
 - Regular and dense low-cement gunning mix
 - Ramming
 - Shotcreting
 - Self flowing
- Supply of mixers, gunning machines, pumps, etc.
- Training on mixing, gunning and maintenance techniques
- Training on equipment usage
- Supervision and monitoring by experienced technicians
- Global research & development
- Technical advice by experts
- Monitoring and targeting of results



5-2019

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