

# LO-MASS<sup>®</sup> ULTRA

KILN FURNITURE FOR  
CERAMIC SUBSTRATES  
FOR FUEL CELLS

## SAVE COSTS & ENERGY FOR A SUSTAINABLE FUTURE

At Saint-Gobain, our commitment to sustainability enables us to develop innovative, cost effective solutions that meet the challenge of protecting the environment.

Our Lo-Mass<sup>®</sup> Ultra kiln furniture systems for firing of ceramic substrates for fuel cell manufacturing include 4 mm thick slabs for advanced kiln furniture assemblies. They allow for high capacity loading in automated industrial operations.

### BENEFITS LO-MASS<sup>®</sup> ULTRA



Lower energy consumption



Reduction of CO<sub>2</sub> emissions



Increased productivity



Longer lifetime

## OUR LO-MASS® ULTRA SOLUTION

Saint-Gobain's innovative, Lo-Mass® Ultra slab systems are developed for highly flexible kiln furniture rack designs. This enables an optimal combination of product design, geometry and overall efficiency.

Our slabs are available in a variety of shapes with thicknesses down to 4 mm. They are manufactured with our industry proven N-Durance® and Crystar® advanced silicon carbide materials. Both materials exhibit excellent strength, thermal conductivity and thermal shock resistance that allows for fast firing cycles and uniform product temperatures throughout the kiln furniture assembly.

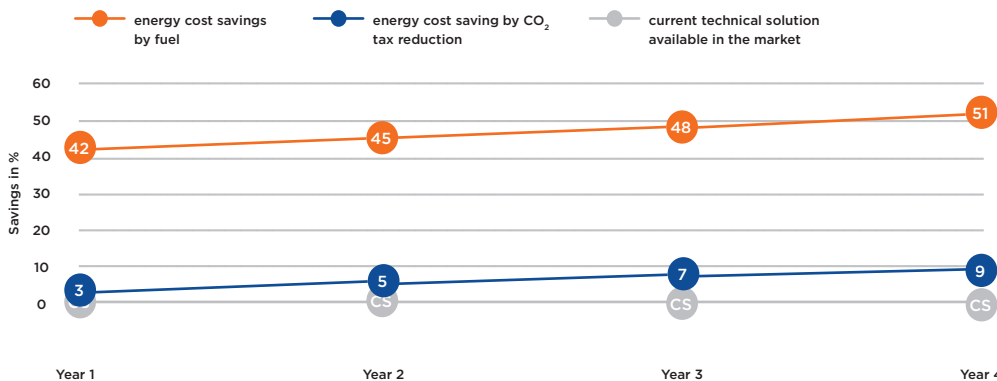


Customized ceramic coatings are available for Lo-Mass® Ultra slabs to enhance product compatibility. Re-coating of Lo-Mass® Ultra slabs is also possible.

## Increased energy savings and CO<sub>2</sub> emission reduction

With our Lo-Mass® Ultra kiln furniture systems, we are able to provide our customers with tangible solutions to significantly save energy and reduce CO<sub>2</sub> emissions. Our Lo-Mass® Ultra kiln furniture systems enable our customers to increase productivity while processing in a more sustainable and “greener” environment. Our products and systems are designed to improve the product to kiln furniture ratio allowing for optimal product loading and overall firing efficiency.

## SAVINGS 6 MM SLABS REPLACED BY 4 MM SLABS IN %



TOTAL CO<sub>2</sub> REDUCTION

42%

TOTAL WEIGHT REDUCTION

33%

\*by replacement of 6 mm slabs

## Leverage Our Expertise.

Saint-Gobain Performance Ceramics & Refractories engineers and researchers collaborate with you, our customers, to solve operational challenges with customized kiln furniture solutions.

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PERFORMANCE CERAMICS & REFRACTORIES

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