

# CERAMIC FIRE CORE



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The Ceramic Fire Core, a mineral-based internal door infill, is engineered to meet the exacting fire performance standards of BS 476 Part 22 and EN 1634-1. It is meticulously crafted from high-density mineral fibers and slag wool, ensuring unparalleled durability and strength. The Ceramic Core is formulated to contribute to fire-rated doors' overall integrity, stability, and insulation capabilities. Also, the mineral-based infill has an outstanding acoustical performance, effectively elevating the overall Sound Transmission Class (STC) rating of the assembly.



Fire-rated core designed to meet rigorous fire performance standards, ensuring high safety measures.



High acoustic performance for noise reduction and elevating the overall Sound Transmission Class (STC)



Mitigates the average temperature on the unexposed side while effectively preventing the passage of flames.

## FIRE PERFORMANCE

- Integrity (E): 120 Minutes
- Insulation (I2): 60 Minutes
- Radiation (W): 120 Minutes

## KEY FEATURES:

- Achieves Exceptional Fire Performance: The Ceramic Core has demonstrated outstanding fire performance, attaining 120 minutes of integrity (E), 60 minutes of insulation (I2), and 120 minutes of radiation (W) in accordance with EN 1634-1 standards.
- Enhanced Door Stability: The Ceramic Core significantly enhances the stability of fire doors, ensuring they retain their structural integrity even under extreme heat conditions.
- Effective Thermal Insulation: With a focus on maintaining safe conditions during fires, the Ceramic Core delivers effective insulation, thereby preventing excessive heat transfer between spaces.
- Customizable Sizes: Available in various sizes and can be tailored to meet specific manufacturer requirements.
- Versatile Thickness Range: Choose from thicknesses ranging between 35mm and 65mm to match specific door designs and applications.
- Environmentally Conscious: Crafted from lightweight, recycled materials, the Ceramic Core aligns with sustainable practices while delivering uncompromising fire resistance.

## APPLICATION

The Ceramic Fire Door Core finds its application as an integral component in fire-rated door systems, contributing to the door's overall fire performance, stability, and insulation capabilities. Suitable for fire-rated metal and wooden doors.

## PRODUCT DATA

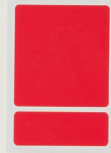
	Ceramic Fire Core
Thickness	35mm, 40mm, 45mm, 50mm, 60mm and 65mm
Standard Length and Width	1200mm x 2400mm
Core Size	Customizable sizes, factory-cut as the manufacturer specifications
Density	450 kg/m <sup>3</sup>
Thermal Conductivity	$\lambda = 0.057 \text{ W/m}^{\circ}\text{K}$
Integrity (E)	120 Minutes
Insulation (I2)	60 Minutes
Radiation (W)	120 Minutes
Formaldehyde Emissions	Complies with Class E1 for Formaldehyde Emissions

## COMPLIANCE

- BS 476 Part 22 (1987)
- EN 1634-1:2014+A1(2018)

The Ceramic Fire Door Core is a testament to advanced fire-resistant technology, exactly designed and manufactured to provide superior safety and durability in fire-rated doors. Its exceptional fire performance, combined with customizable options, makes it an ideal choice for projects requiring the highest level of fire protection without compromising design flexibility.

For detailed technical information, installation guidelines, and project-specific recommendations, please consult USG ME technical support team.



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