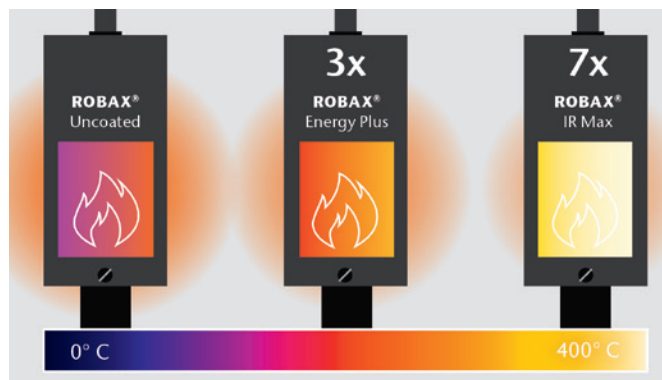# ROBAX® IR Max

Our advanced heat-reflective coating

Fire viewing panel with heat-reflective coating IR Max

Cumulative reflection of heat radiation for a wavelength range of 800 to 8,000 nm

Technical Data

Maximum usable area	1,914 x 1,060 mm
Glass thickness	4 and 5 mm
Recommended application	Wood, pellet and gas fireplaces
Effect of coating	Reflects up to seven times more heat than uncoated ROBAX® (for further benefits of the coating please see backside of this data sheet)
Reflection	35–45 % (for the wavelength of 3,500 nm)
Installation	Coated side facing away from fire
Color impression of coating	In reflection bluish and slightly mirrored
Shape	Flat cut-to-size and random sheets
Surface structure	Both sides smooth
Decoration	Yes (max. glass size 950 x 550 mm)
Cleaning	Uncoated side: SCHOTT ROBAX® Dry Wiper Coated side: soft cloth

Thermal Characteristics

Temperature resistance	Up to 550 °C (1,112 °F) = 1,000 hours
Thermal shock resistance	$T_{max} \leq 700$ °C (1,292 °F) *
Resistance to temperature differences (RDT)	$T_{max} \leq 700$ °C (1,292 °F) *

Chemical Characteristics

Acid resistance	Min. Class S2 (acc. to DIN 12116)**
Alkaline resistance	Min. Class A1 (in line with ISO 695)**
Hydrolytic class	HGB 1 (acc. to ISO 719)**

*Only applies to material, not to the coating
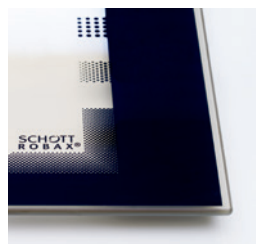**Valid for glass-ceramic substrate

SCHOTT ROBAX®

Key benefits of ROBAX® IR Max

- Significantly elevated temperatures in the combustion chamber

- Higher efficiency of additional heat energy and reduced heating costs

- Reduction of emissions possible

- Reduction of the temperature outside of the combustion chamber

- No overheating of the room

- Reduction of floor temperature in front of the fireplace

- Less cleaning necessary due to reduced soot deposits on the fire viewing panel

- The coating does not distort the view of the fire

- More design possibilities, especially with regard to decoration

- Constant performance of the coating over the entire lifecycle

The effects mentioned here are largely dependent on the design of the respective fireplace and the usage habits. We therefore strongly recommend to test whether ROBAX® IR Max can achieve the desired result before committing to serial production. SCHOTT ROBAX® offers comprehensive application services. Please contact us.

Decoration Colors

ROBAX® IR Max is also available with all ROBAX® decoration colors (below you see a small selection).

mystic black	tin grey	autumn red	matte stone grey and mystic black	metallic red and mystic black

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