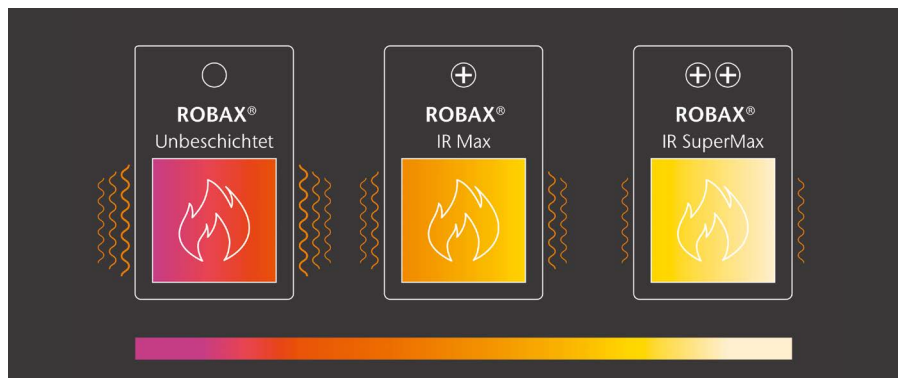


ROBAX® IR SuperMax



The glass-ceramic panel with our highest heat-reflective performance



Effects of our different coatings from the ROBAX® Smart Heat Portfolio on the combustion chamber temperature and radiated heat.



ROBAX® fire-viewing panel with IR SuperMax coating.

Technical data

Maximum panel size	1,055 mm x 535 mm
Glass thickness	4 and 5 mm
Recommended application	Wood, pellet and gas fireplaces
Effect of coating	Reflects significantly more heat back into the combustion chamber than uncoated ROBAX® (for further details of the coating please see backside of this data sheet)
Installation	Coated side facing away from fire
Color impression of coating	In reflection the surface of the coated ROBAX® IR SuperMax panel appears slightly greenish or pink mirrored, depending on the viewing angle
Shape	Flat cut-to-size sheets
Surface structure	Both sides smooth
Decoration	Yes (pure black, mystic black, opaque black; mystic & opaque black also in combination with logo in matte stone grey); logos in polar white, satin silver, tin grey
Cleaning	Uncoated side: SCHOTT ROBAX® Dry Wiper Coated side: soft cloth and standard glass cleaner

Thermal characteristics

Temperature resistance (glass-ceramic substrate with IR SuperMax coating)	Up to 550 °C (1,022 °F) = 600 hours
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Decoration colors

ROBAX® IR SuperMax is available with the following decoration colors:



mystic black/opaque black
(Logo on the left also in color matte stone grey)



pure black

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ROBAX® IR SuperMax

ROBAX® IR SuperMax is a coated fire-viewing panel with a specially developed IR coating. Compared with an uncoated ROBAX® fire-viewing panel of the same thickness in an identical stove setup, it reflects a higher proportion of infrared heat radiation back into the combustion chamber and thereby influences the thermal conditions inside the stove.

Your benefits

- Less heat radiation into the living space: By reflecting infrared heat radiation back into the combustion chamber, the heat radiation emitted towards the living space can be reduced.* This can contribute to noticeably more comfortable room temperatures – including in low-energy and passive houses.
- Greater design freedom: The increased reflection of heat radiation* can, depending on the stove design, enable a larger fire-viewing panel and/or reduced distances to walls and furniture, thereby creating additional design options.
- Support for the combustion process: Under comparable conditions, the stove can reach the temperature range favorable for clean combustion more quickly.* In addition, the effectiveness of a catalyst in the stove can be significantly improved.
- Potential for emissions reduction: Under defined conditions, ROBAX® IR SuperMax can contribute to a reduction in CO and particulate matter emissions.**
- Reduced soot deposits: The higher panel temperature can promote a pyrolysis-like effect, thereby contributing to reduced soot deposits on the panel.*
- Consistent coating performance: With proper use, the coating remains consistently effective throughout the entire service life of the stove.



Due to the colorful reflection of the coating (= result of optimization of coating regarding IR reflection) the end customer in the showroom can see that the panel and thus the fireplace is of very high quality.

*Statements refer to the internal comparison of ROBAX® IR SuperMax with an uncoated ROBAX® fire-viewing panel of the same size and thickness in an identical stove setup. The effects described depend on stove design, fuel quality, and operation. No statement is made regarding the finished appliance's compliance with emissions limits. Tested under regular operating conditions in accordance with a documented test procedure. Details of the conditions and methodology are available in the corresponding test report (available upon request).

**Under the internal, documented test conditions described in *, the comparison showed, by way of example, a reduction in the sum of particulate matter emissions by about half and an average reduction in the CO value of approx. 45% (both starting from minute 0 of each burning cycle).

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 SuperMax can achieve the desired result before committing to serial production. SCHOTT ROBAX® offers comprehensive application services. Please contact us.

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