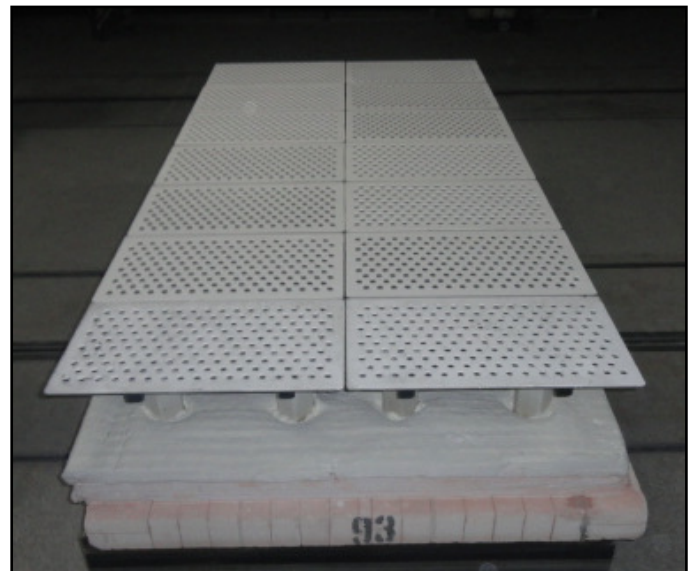


Eco-Light®-Advancing Efficiency

Bore Grids for Sanitary Industry

- Reduced thermal mass and therefore less energy consumption
- Improved convective flow of heat and therefore proven positive impact on the ware being fired
(less rejects of complex sanitary articles due to firing cracks)



	Eco-Light®-Beams	CarSIK-NG Grids
Grade	SiSiC	NSiC
Bulk density (g/cm ³)	3,11	2,85
Apparent porosity (Vol.%)	0	<1
Modulus of rupture/4-point loading (MPa)	280	200
Modulus of elasticity (GPa)	360	220
Thermal expansion coefficient RT-1000°C (10 ⁻⁶ /K)	4,9	4,6
Thermal conductivity (W/mK) 1200°C	24	12
Specific heat (J/kgK)		
20°C	600	750
1300°C	1200	1100
Limit of application (°C)	1380	1450
Chemical composition (wt. %)		
SiC	90	65
Si (free)	9	-
Si ₃ N ₄ + Si ₂ ON ₂	-	27

The values quoted above were determined on testspecimens and cannot generally be applied to all shapes.