SkamoAlu Hipor

	Value	Unit
Maximum service temperature	900 1,652	°C °F
Bulk density	550 34	kg/m³ lb/ft³
Cold crushing strength (DS/EN ISO 8895_2006)	1.4 203	MPa lb/in²
Modulus of rupture (EN 993-6:1995)	0.5 73	MPa lb/in²
Linear reheat shrinkage (EN 1094-6:1999) after 12 hours at 850°C (1,562°F)	1.0	%
Total porosity (EN 1094-4:1995)	77	%
Creep in compression (BS EN 993-9:1997) after 50 hours at 850°C (1,562°F), load 0.05MPa (7.25lb/in²)	3.0	%
Coefficient of reversible thermal expansion at 20°C to 750°C (68°F to 1,382°F) (NF EN 821-1)	3.0 1.7	×10⁻⁶ K⁻¹ ×10⁻⁶ °F⁻¹
Resistance to thermal shock (EN 993-11:1998)	> 30	Cycles

Thermal conductivity (ASTM C-182)	Mean temperature		
	200°C	0.09	W/(m×K)
	400°C	0.10	W/(m×K)
	600°C	0.11	W/(m×K)
	800°C	0.12	W/(m×K)
	392°F	0.62	BTU/(ft²×h×°F/in)
	752°F	0.69	BTU/(ft²×h×°F/in)
	1,112°F	0.76	BTU/(ft²×h×°F/in)
	1,472°F	0.83	BTU/(ft²×h×°F/in)

Chemical analysis			
Silica	SiO_2	77	%
Titanium dioxide	TiO_2	0.7	%
Ferric oxide	Fe_2O_3	7.0	%
Alumina	Al_2O_3	9.0	%
Magnesium oxide	MgO	1.3	%
Calcium oxide	CaO	0.8	%
Sodium oxide	Na_2O	0.4	%
Potassium oxide	K_2O	1.6	%
Sulphur trioxide	SO_3	1.0	%
Loss on ignition at 1,025°C (1,877°F)	LOI	0.7	%

HS Tariff number (Harmonized Commodity Description and Coding System)	6901.00.00	
Colour	Red	

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Size	Length	Width	Thickness
Maximum	250mm	152mm	76mm
Minimum	According to your specification	According to your specification	50mm
Standard tolerances*	+0.5mm, -1.0mm / 1% (the larger)	+0.5mm, -1.0mm / 1% (the larger)	+0.5mm, -1.0mm / 1% (the larger)
Machined tolerances*	+0.5mm, -1.0mm / 1% (the larger)	+0.5mm, -1.0mm / 1% (the larger)	+0.5mm, -1.0mm / 1% (the larger)

*Dimensional tolerances depend on length and width

General information
Not all size combinations are available for ordering.
Contact Skamol for the tolerance for a specific size.

Standard sizes
Check your Skamol price list or contact Skamol with your request.

Machining
Special shapes machined to customer specification can be supplied for specific design requirements.

Packaging
Products will be packed according to the Skamol standard.

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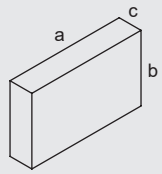
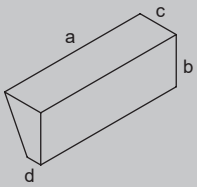
Available shapes

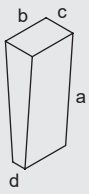
1. Square



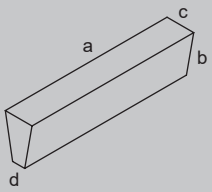
2. Side arch



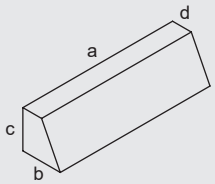
3. End arch



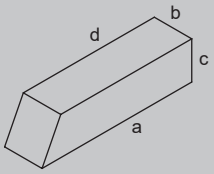
4. Double side arch



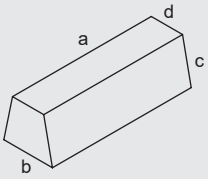
5. Side skew



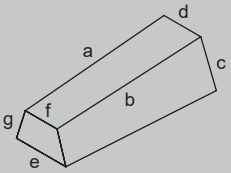
6. End skew



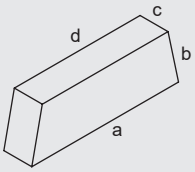
7. Double side chamfer



8. Dome brick



9. Tapered stretcher



10. Tapered header

a: Length
b: Width
c: Thickness
d: Other
e: Other
f: Other
g: Other

Data are average results of tests conducted under standard procedures and are subject to variation. Data contained in this data sheet are supplied in good faith as a technical service and are subject to change without notice. Misprint and errors excepted. Revision number: 13.1.2021

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