

GOIZEA WORKS



1. Kathu. Northern Cape, South Africa.
2. Ilanga. Upington. Northern Cape, South Africa.
3. Noor III. Ouarzazate, Morocco.
4. Shagaya. Kuwait City.
5. Ashalim. Beer Sheva, Israel.
6. Kaxu Solar One. Pofadder, South Africa.
7. Xina Solar One. Northern Cape, South Africa.
8. Extresol 1. Badajoz, Spain.
9. Extresol 2. Badajoz, Spain.
10. Samcasol 1. Badajoz, Spain.

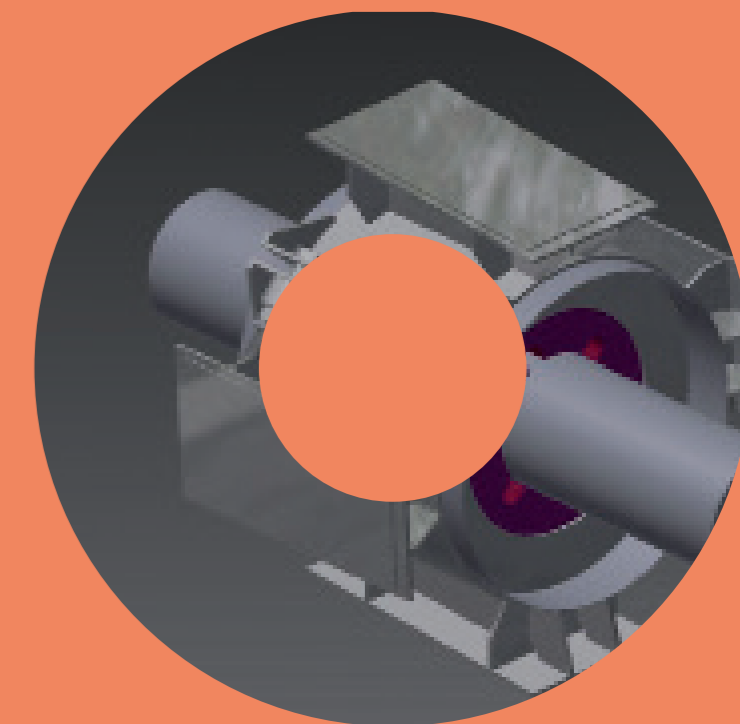
11. Samcasol 2. Mérida, Spain.
12. Noor I. Ouarzazate, Morocco.
13. Solaben 2. Logrosan, Cáceres, Spain.
14. Solaben 3. Logrosan, Cáceres, Spain.
15. UTE Guzman. Palma del Río, Córdoba, Spain.
16. Termosol 1. Navalvillar de Pela, Badajoz, Spain.
17. Termosol 2. Navalvillar de Pela, Badajoz, Spain.
18. Aste 1A. Alcázar de San Juan, Ciudad Real, Spain.
19. Aste 1B. Alcázar de San Juan, Ciudad Real, Spain.
20. Moron. Morón de la Frontera, Sevilla, Spain.

CONTACT

Arteta Barri, 2-4
48610 Urduliz (Bizkaia)
Spain

Phone: (+34) 94 676 61 77
Fax: (+34) 94 676 62 60
Email: goizea@goizea.com

**Calcium
Silicate**
pre-insulated
pipe supports



GOIZEA: EXPERT FOR EXPERTS

GOIZEA has long been recognized as the leading worldwide specialist in pipe support technologies. Starting in 1983 as representative for standardized pipe supports manufacturers, the company grew fast and developed its own products, becoming the international market leader in the late 90s.

This leadership is a result of our priorities: the very best product quality and intense technological development, ensuring technical performance of all our calcium silicate categories.

GOIZEA supplies Calcium silicate Supports offering superb performance up to 1000°C.



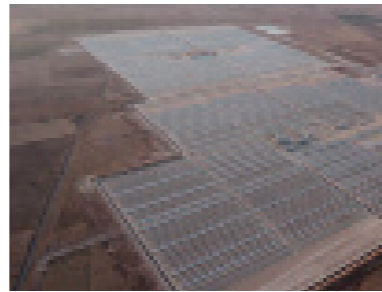
CALCIUM SILICATE – HEAT LOSSES CONTROL, HIGH STRENGTH

Our calcium silicate products offer very stable thermal conductivity values over a wide range of temperatures. Our best products can be used continuously up to 1000°C without deterioration or excessive shrinkage.

Almost any type of thermal equipment can be built and insulated at the same time, due to calcium silicate's special properties: its high compressive and flexural strength. For this reason, our supports can be used as structural components in an assembly.

MATERIAL PROPERTIES & CHARACTERISTICS

- Excellent thermal conductivity values that remain stable over a wide range of temperatures up to 1000 °C
- Excellent machineability
- Insoluble in water
- Excellent compressive and flexural strength
- Wide range of densities
- Excellent electrical insulating properties when dry
- Resistant to oils, weak alkalis and many other chemicals

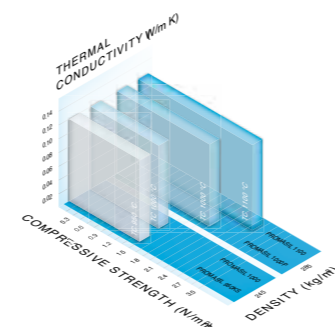


PROMASIL

950 - 1100 °C

Brand		PROMASIL®			
Grade		-950KS	-1000	-1000P	-1100
Colour		White	White	White	White
Classification temperature °C		950	1000	1000	1100
Bulk density kg/m³		245	245	285	285
Reversible thermal expansion mm/m K		5.4x10 ⁻⁶	5.4x10 ⁻⁶	5.4x10 ⁻⁶	5.5x10 ⁻⁶
Cold compressive strength N/mm²		1.5	1.5	2	2.5
Linear shrinkage @ 1000 °C, 12 h %		1.5	1.3	1.3	1.5
Thermal conductivity					
200 °C	W/m K	0.08	0.08	0.09	0.09
400 °C	W/m K	0.10	0.10	0.10	0.10
600 °C	W/m K	0.12	0.12	0.12	0.12
800 °C	W/m K	0.14	0.14	0.14	0.15
Specific heat capacity @ 400 °C kJ/kg K		1.03	1.03	1.03	1.05
Protective gas-resistance		CO, NH ₃ , H ₂ , CH ₄ , H ₂ atmosphere			

Graph: Thermal conductivity vs. compressive strength vs. density (Thermal conductivity @ 600 °C)



Product dimensions & standard sizes

Length [mm]	Width [mm]	Thickness [mm]
1000	500	25-30-40-50-60-65-70-75-80-90-100

Segments in all diameters can be produced on request. Shaped parts and cut sections are available on request.

PROMASIL® -1000 half-pipe sections

Inner diameter (min.)	Outer diameter (max.)	Pipe length
10 mm	330 mm	500 mm

Production tolerances

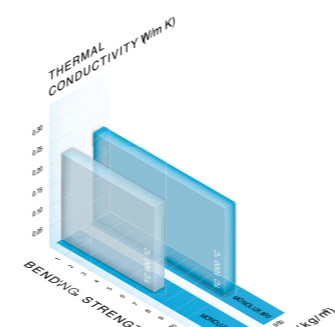
Length [mm]	Width [mm]	Thickness [mm]
± 1.5	± 1.5	± 1.3

MONOLUX

900 - 1000 °C

Brand		MONOLUX®			
Grade		500	800		
Colour		White/beige	White/beige		
Building material class (DIN 4102)		A1, Non-combustible	A1, Non-combustible		
Classification temperature °C		900	1000		
Nominal density kg/m³		770	950		
Cold compressive strength N/mm²		13	27		
Bending strength N/mm²		7	10		
Shrinkage @ CT, 12 h %		0.4	0.4		
Thermal conductivity					
200 °C mean	W/m K	0.21	0.22		
400 °C mean	W/m K	0.23	0.24		
600 °C mean	W/m K	0.25	0.25		
800 °C mean	W/m K	0.27	0.28		
Specific heat capacity kJ/kg K		0.98	1.03		
Reversible thermal expansion mm/m K		2.2x10 ⁻⁶	2.2x10 ⁻⁶		

Graph: Thermal conductivity vs. bending strength vs. density (Thermal conductivity @ 200 °C)



Product dimensions & size availability

Length [mm]	Width [mm]	Thickness [mm]
MONOLUX®-500	2440	1220
MONOLUX®-800	2440	1220

Other sizes and shaped parts are available on request.

Production tolerances

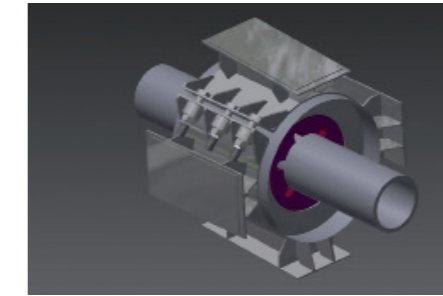
Length [mm]	Width [mm]	Thickness [mm]
± 5.0	± 5.0	+0/-0.8

SERVICES

Engineering & Field Services & Manufacturing

ENGINEERING

Mechanical calculation



Ad Hoc Design



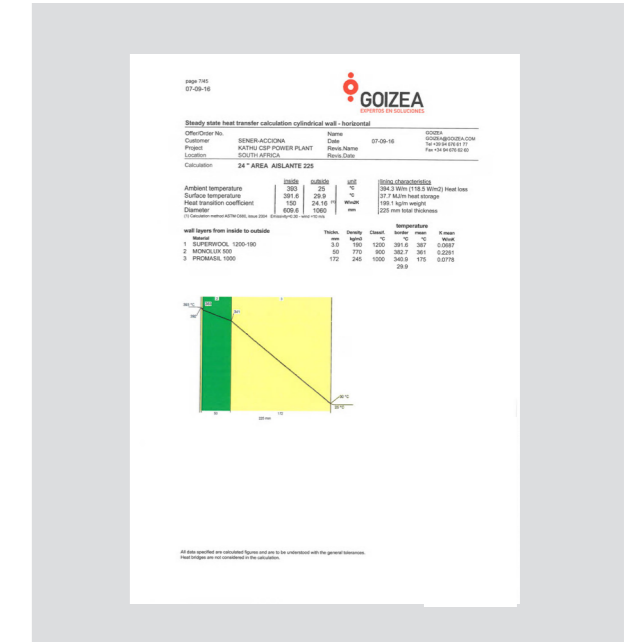
MANUFACTURING

Our Manufacturing is according to the specific material needs of our customers.

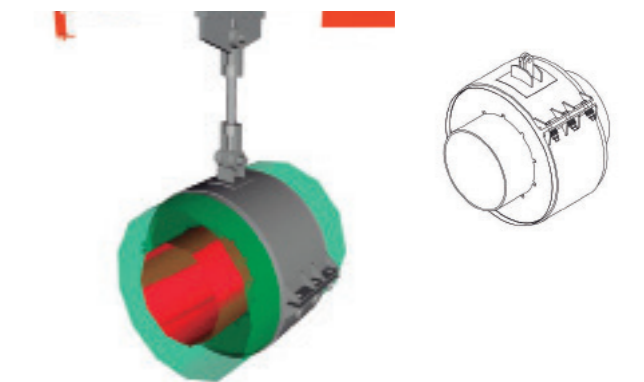
Standard material; Base Clamps and Structural Steel: S275JR; Calcium Silicate Rings: Monolux and/or Promasil;

Neoprene: Neoprene 40 SH; **Stainless Steel Protection Shield:** A240 TP 30 4; **Bolts (DIN 931), nuts (DIN 934) & spring washers (DIN 6796) Grade 8.8 according DIN267 & safety nut (DIN 7967).**

Thermal Calculation



3D Model integration



FIELD SERVICE

Please do not hesitate to contact us for your field service needs. If you:

- are planning any maintenance activity that requires additional assistance with pipe support installation/maintenance, or

- need unexpected repair works or replacements **we are your partner.**

GOIZEA provides high quality pipe support solutions with full guarantee.