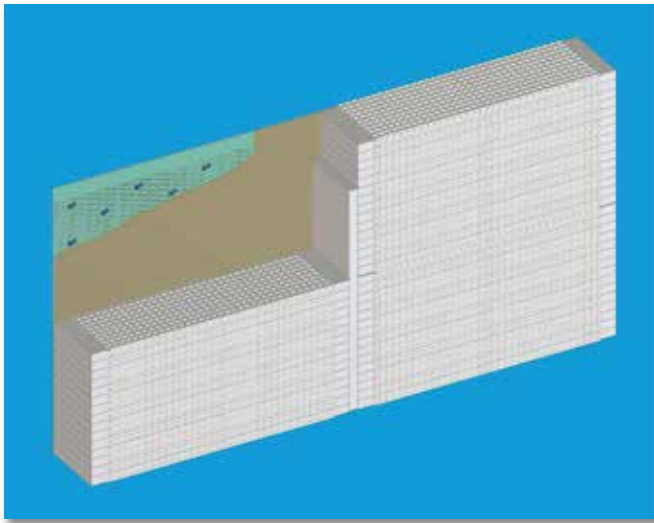


# ALSIBLOCK® (module)



### High temperature wool systems

ALSIBLOCK® are special lightweight construction systems made of ALSIFLEX® high temperature wool for high-temperature insulations. They were developed as front lining for geometrically complicated furnaces and plants subjected to high thermal and mechanical stress. They consist of layered laminated fibre strips or cut sections. The main direction of the fibres runs perpendicular to the lining surface. The systems are either bonded using specially developed high temperature bonding agents (ALSIBLOCK®-H and -D) to steel sheets or refractory materials or are mechanically anchored.

ALSIBLOCK® is a ready-to-assemble block (fibre module) consisting of several individual strips which are pressed and held together by fabric.

Technical data				
Type		-1260	-1430	-1600
Colour			white	
Classification temperature	°C	1250	1400	1600
Bulk density	kg/m <sup>3</sup>		130 / 150	
Thermal conductivity	density kg/m <sup>3</sup>	150	150	130
400 °C	W/m K	0.12	0.12	0.14
600 °C	W/m K	0.17	0.17	0.18
800 °C	W/m K	0.23	0.23	0.25
1000 °C	W/m K	0.34	0.34	0.35
Chemical analysis				
Al <sub>2</sub> O <sub>3</sub>	%	42-47	28-32	72
SiO <sub>2</sub>	%	53-58	52-56	28
ZrO <sub>2</sub>	%	-	14-18	-

Delivery sizes				
Length	mm	300	600	600
Width	mm	300	150	300
Thickness	mm		35-300	

Other sizes are available on request.

# ALSIBLOCK® (module)

### Properties & advantages

- lightweight, flexible, low thermal conductivity
- extreme thermal shock resistance
- suitable for high gas velocities
- flexible and adaptable (curves, arches, connections)
- no rear flow due to hot flue gases
- simple, rapid assembly
- economical reconstruction of old plants

### Application areas

The lightweight refractory construction system ALSIBLOCK® is the result of long-term research and practical experience in all branches of industry. It's the basis of optimised lightweight construction technology in all fields of technically ambitious high temperature insulation. ALSIBLOCK® represents a homogeneous, compact refractory lining without thermal bridges and can be adapted easily to all complicated shapes/geometries.

#### HEAVY INDUSTRY

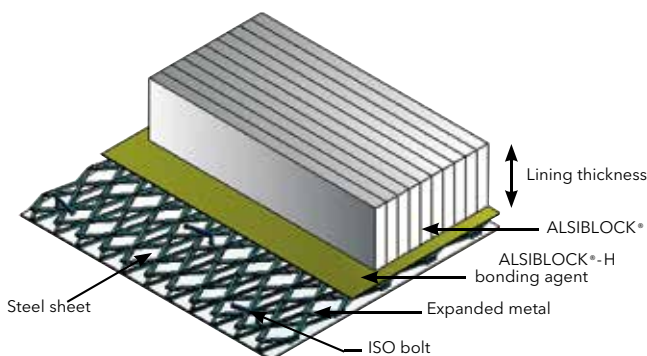
ALSITHERM® modules are used especially in furnaces that are operated periodically and in high temperature applications.

Examples:

- chamber and tunnel furnaces
- hood kilns
- combustion chambers
- forging furnaces

#### OIL AND GAS

- thermal cracking reactors and processing plants



### Working & processing

ALSIBLOCK® can be cut and machined with conventional tools, e. g. knives and machines.

When working and processing high temperature wool products, the Technical Regulations for Hazardous Materials (TRGS 558) must be observed.

Dust is produced during processing. Dust can be harmful to the health. Avoid contact with eyes and skin. Do not breathe in the dust. Dust should be removed by suction. The dust limits are to be adhered to. See product safety data sheet.

ALSIBLOCK® is either bonded using specially developed high temperature bonding agents (ALSIBLOCK®-H and D) to steel sheets or refractory materials or are mechanically anchored.

### Bonding agents

High temperature bonding agents for light-weight construction systems ALSIBLOCK®, ALSIPACK® and ALSIFORM®:

1. ALSIBLOCK®-H bonding agent for bonding on expanded metal
2. ALSIBLOCK®-D bonding agent for bonding on refractory brickwork and walls

### Delivery forms

ALSIBLOCK®-H bonding agent in powdery form.  
ALSIBLOCK®-D bonding agent as ready-to-use high temperature refractory bonding agent

### Thermal conductivity

