

# FIBERFRAX® DURABOARD 120ZK & 120LD

## REFRACTORY FIBER PRODUCTS

**Fiberfrax Duraboard products** are manufactured from Fiberfrax refractory ceramic fibres, blended with specially selected inorganic and organic binders to give rigid boards with exceptional characteristics. **Duraboard 120ZK** is easy to cut and shape with standard tools. These boards exhibit high strength and rigidity coupled with excellent insulating performance and high temperature stability.

**Duraboard 120LD** is particularly suited to applications where reduced out-gassing and/or high definition mechanical machining are required. Fiberfrax Duraboard products are available in a wide range of sizes and thicknesses.



## GENERAL CHARACTERISTICS

Fiberfrax® Duraboard products have the following outstanding characteristics:

- High temperature stability
- Low thermal conductivity
- Resistance to thermal shock
- Resistance to erosion
- Easy to cut with standard tools

## TYPICAL APPLICATIONS

- High temperature furnace and kiln linings
- Rigid high temperature gaskets and seals
- Heat shields
- Gas boiler combustion chamber linings

## TYPICAL PRODUCT PARAMETERS

### Physical Properties

<u>Duraboard</u>	<u>120 ZK</u>	<u>120 LD</u>
Colour	White / Tan	White / Tan
Melting Point	1760°C	1760°C
Product Density	390 kg/m <sup>3</sup>	300 kg/m <sup>3</sup>
Modules of Rupture	> 800 kPa	> 700 kPa
Use Limit*	1200°C	1200°C
Loss on ignition (wt.%)	<9.0	<7.0

\*Use limit refers to the maximum short term temperature limit. The maximum continuous use limit for boards depends upon application conditions. For certain applications continuous use temperature limits may be significantly reduced. Where appropriate Physical Properties data measured according to EN 1094-1.

## TYPICAL CHEMICAL ANALYSIS (FIBRE WT%)

<u>Duraboard</u>	<u>120 ZK</u>	<u>120 LD</u>
SiO <sub>2</sub>	50.0-58.0	50.0-58.0
Al <sub>2</sub> O <sub>3</sub>	42.0-50.0	42.0-50.0
Fe <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub>	< 0,20	< 0,20
Alkalis	< 0,25	< 0,25

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## THERMAL CONDUCTIVITY DATA (W/MK)

<b>Duraboard</b>	<b>120 ZK</b>	<b>120 LD</b>
600°C Mean Temp.	0.13	0.09
800°C Mean Temp.	0.16	0.13
1000°C Mean Temp.	0.19	0.17

## PERMANENT LINEAR SHRINKAGE (24 HOUR SOAK)

<b>Duraboard</b>	<b>120 ZK</b>	<b>120 LD</b>
1200°C	< 4.0%	< 4.0%

Where appropriate Physical Properties and Thermal Conductivity Data measured according to ENV 1094-7:1994

## AVAILABILITY

Thickness	120ZK	120LD	Sheet Dimension mm	Qty Sheets / Carton	Loose Sheets/ Pallet	Sheet Dimension (mm)	Qty Sheets / Carton	Loose Sheets/ Pallet
3 mm	√		1000 x 610	32	704	1250 x 1000	32	352
5 mm	√	√	1000 x 610	20	440	1250 x 1000	20	220
6 mm	√	√	1000 x 610	16	352	1250 x 1000	16	176
10 mm	√	√	1000 x 610	10	220	1250 x 1000	10	110
12 mm	√	√	1000 x 610	8	176	1250 x 1000	8	88
15 mm	√	√	1000 x 610	6	132	1250 x 1000	6	66
18 mm	√	√	1000 x 610	5	110	1250 x 1000	5	55
20 mm	√	√	1000 x 610	5	110	1250 x 1000	5	55
25 mm	√	√	1000 x 610	4	88	1250 x 1000	4	44
30 mm	√	√	1000 x 610	3	68	1250 x 1000	3	34
40 mm	√	√	1000 x 610	2	44	1250 x 1000	2	22
50 mm	√	√	1000 x 610	2	44	1250 x 1000	2	22

Other thicknesses and sheet sizes may be available on request subject to minimum order requirements.

## Handling information

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use.