

ISOFRAX® 1260C MODULES

Isofrax® 1260C Modules are based on a revolutionary new fibre with a unique, patented silica-magnesia chemistry. Designed to be used in a wide variety of demanding, high temperature applications, Isofrax has very high solubility in simulated body fluids and meets the European and German regulatory requirements. Isofrax 1260C Modules are prefabricated blocks formed from strips of Isofrax Blanket to give four densities of finished Modules: 150kg/m³, 170kg/m³, 190kg/m³ and 210 kg/m³. These modules are specially designed to meet or improve the thermal insulation requirements of industrial furnaces. Isofrax 1260C are produced with various anchoring systems to enable quick, easy and efficient installation in most furnace linings. Three types of Modules are offered: WA is without an anchor system so can be tailored to a client's own anchorage method, RX2 offers an external fixing system with enhanced visibility and Anchor-Loc offers a centre fixing system. Isofrax 1260C Bonded modules consist of strips of Isofrax Blanket edge-stacked and glued together.



GENERAL CHARACTERISTICS

Isofrax 1260C Modules have these outstanding Characteristics:

- High temperature stability (up to 1260°C)
- Low thermal conductivity
- Low heat storage
- Faster temperature
- Energy saving
- Lower installation cost
- Easy repairs

Typical Chemical Analysis (Fibre wt.%)

SiO ₂	70.0 – 80.0
MgO	18.0 – 27.0
Trace	<4.0
Loss on ignition	< 7%

TYPICAL PRODUCT PARAMETERS

Physical Properties

	Isofrax 1260C Bonded Module	Isofrax 1260C WA, RX2, Anchor-Loc**
Colour	Bluish-White	Bluish-White
Melting Point	> 1500°C	> 1500°C
Recommended	1260°C	1260°C
Operating Temp.Limit		
Density	190kg/m ³	150, 170, 190, 210kg/m ³
Thickness	38 – 100mm	100 – 300mm

*dependent upon operating conditions.

**Thread-Loc or Weld-Loc

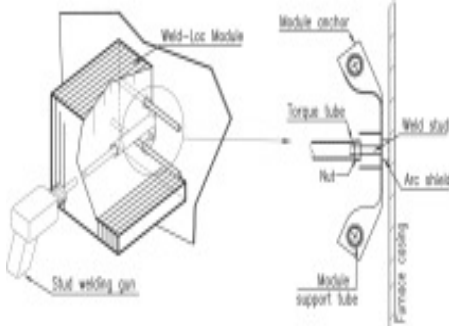
Thermal Conductivity Data W/mK)

Density	150kg/m ³	170kg/m ³	190kg/m ³	210kg/m ³
400°C Mean Temp.	0.12	0.11	0.10	0.09
600°C Mean Temp.	0.16	0.15	0.14	0.13
800°C Mean Temp.	0.21	0.19	0.18	0.17
1000°C Mean Temp.	0.29	0.26	0.23	0.22
1200°C Mean Temp.	0.39	0.34	0.29	0.28

Data are average results conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.

Weld-Loc Attachment System

Weld- Loc Isofrax Modules



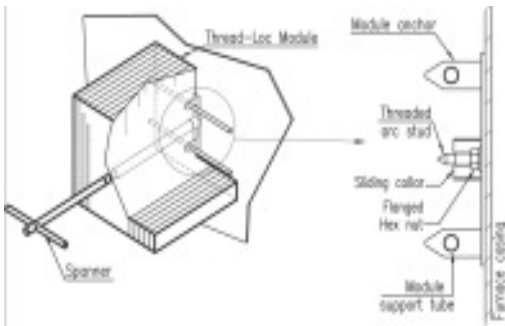
- High installation speed

A special weld assembly is installed in each Weld-Loc Isofrax Module. This stud assembly permits fusion of the stud base to the furnace casings and allows a threaded fastener to be torqued on the stud, drawing the Isofrax Module to the casing plate.

Advantages:

- Easy and simplicity of installation
- Permits random placement of modules on the casing.

Thread-Loc Attachment System



placement.

- Access to the welded fastener for full testing before

Thread-Loc Isofrax Modules

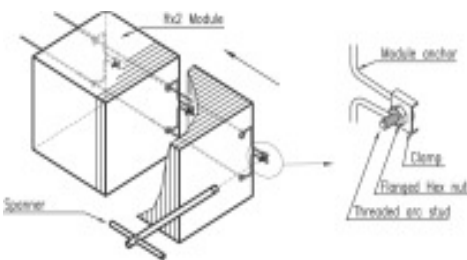
Provided with an all-thread weld stud and flanged nut, the Thread- loc Isofrax Module is designed for installation on a pre-positioned stud pattern.

Advantages:

- Compatibility with back-up insulation and vapor foil barriers.
- Modules anchor compensates for variation in stud

the module is installed.

RX2 Attachment System



Advantages:

- Very high installation speed

Prismo-Block RX2 Isofrax Modules

Provided with a patented module anchor in AISI 321, the RX2 attachment of the Isofrax Modules, was designed for a rapid installation on a pre-positioned stud pattern via the side fastener which is screwed on a stud pre-welded to the casing of the furnace. A complete set (Treated arc stud, clamp, flanged hex stud) is supplied.

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- Compatibility with back-up insulation and Foil vapour barriers.
- Modules anchor compensates for variation in stud placement.

Thermal Profile Tables

Modules 150kg/m³

Hot Face Temperature	Insulation Thickness (mm)	Cold Face Temperature				
		100	150	200	250	300
800°C		91°C	73°C	62°C	56°C	50°C
900°C		-	81°C	69°C	62°C	58°C
1000°C		-	-	78°C	69°C	64°C

Modules 170kg/m³

Hot Face Temperature	Insulation Thickness (mm)	Cold Face Temperature				
		100	150	200	250	300
900°C		102°C	80°C	69°C	62°C	55°C
1000°C		-	89°C	75°C	68°C	61°C
1100°C		-	-	82°C	74°C	66°C

Modules 190kg/m³

Hot Face Temperature	Insulation Thickness (mm)	Cold Face Temperature				
		100	150	200	250	300
1000°C		108°C	85°C	73°C	64°C	59°C
1100°C		-	94°C	79°C	70°C	64°C
1200°C		-	-	86°C	76°C	69°C

Modules 210kg/m³

Hot Face Temperature	Insulation Thickness (mm)	Cold Face Temperature				
		100	150	200	250	300
1000°C		105°C	84°C	72°C	64°C	58°C
1100°C		-	92°C	78°C	69°C	63°C
1200°C		-	-	85°C	75°C	68°C
1260°C		-	-	-	81°C	74°C

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Typical Applications.

Metallurgy	Petrochemical	Power-Gen	Ceramic
<ul style="list-style-type: none"> • Forge furnace • Reheat furnace • Annealing furnace • Holding furnace 	<ul style="list-style-type: none"> • Heaters • Distillation heater • Ethylene heater 	<ul style="list-style-type: none"> • Exhaust duct • Stack • Diverter • Boiler 	<ul style="list-style-type: none"> • Earthenware kiln • Tunnel/intermittent kilns -Tile -Bricks -Biscuit • Sanitaryware kilns

Availability

Products	Bonded Modules	WA, RX2, Anchor-Loc
Length	300mm	300mm
Width/Compression	300mm*	300mm*
Density	38,50,70,100mm*	100,125,150,175,200,225,250,270,300mm*
Thickness	190kg/m ³	150,170,190,210kg/m ³
Type	Edge-stacked	Edge-stacked or Folded
*Other thicknesses/sizes may be available on request subject to order.		

Packaging

Anchors	150kg/m ³	170kg/m ³	190kg/m ³	210kg/m ³
RX2/WA	Plastic Bag	Plastic Bag	Plastic Bag	Medium

Contact Information:

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Weld-Loc	Carton Plates	Carton Plates	Carton Plates	Medium
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Product Information Sheet

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