

# (MAS) Module Systems



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## General

The **Mechanically Anchored System (MAS Lining System)** is a (furnace) lining system made from high temperature resistant fiber modules, which can be used in many types of heat-processing equipment. It was developed by Insulcon in the early eighties and meets a range of application requirements in a variety of temperature grades and densities. Insulcon's **MAS Modules** are resistant against high flue gas velocities.

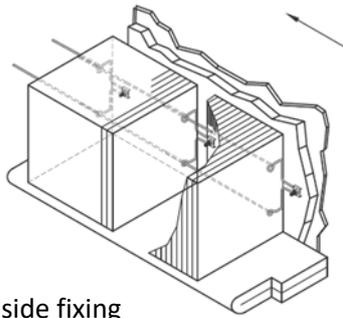
This system is manufactured in our own production facility using several qualities of refractory fibres to create a standard construction form, edge stacked.

After determining the type of blankets and the density which should be used in your specific application, the blankets are die-cutted in smaller strips (lamellas). The strips are assembled in a package and then pre-compressed. Using a polyethylene cover (which is pulled around the block), cardboard or wooden boards, the lamellas are held together with plastic strapping to form a block. The polyethylene will burn away after firing the furnace without any risk of corrosion. (Cardboard and wooden boards are normally removed before first firing).

For fixing the **MAS modules**, two types of anchors are available. The FF type for walls and the HF type for roofs. The start anchors (FF-2 and HF-2) have only one leg of 160 mm. The continuing anchors FF-1 and HF-1 have two legs of 160 mm.

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RX2 side fixing

Besides the MAS modules we are able to supply you with other types of modules (for example folded and bonded) and various types of anchoring systems. The anchor lock modules can be supplied with either side fixing (RX2) or central fixing (thread lock and weld lock) anchors.

Insulcon's module systems are available in densities up to  $190 \text{ kg/m}^3$  and in several qualities and temperature ranges up to  $1600^\circ\text{C}$ . They can be applied on big flat surfaces as well as in circular spaces (e.g. ducts).

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### Advantages (MAS) Modules Systems:

- High-temperature stability, low thermal conductivity
- Resistance to thermal shock
- Lightweight
- Low heat storage and fuel consumption
- Fast and effortless installation

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