

Réfractaires pour l'industrie

Verrière

Refractories for the

GLASS

Industry



FR **BELREF**
REFRACTORIES

www.belref.com

Introduction

**BELREF
REFRACTORIES**

S.A.

**Is an international
leader for the
production of
refractories
dedicated to the
furnaces of the
glass industry**

- **A worldwide
experience**
- **A team of
specialists to help
in the selection of
the more
convenient brands**
- **A drawing office
to define the items
list from a sketch**
- **Thermal
calculation of the
insulation savings**
- **A great range of
shapes and
dimensions**

BELREF REFRACTORIES is member of IPRATEC, one of the largest company specialized in the glass business.

Many companies around the world have got the positive experience to use our refractories in their furnaces

Our range of brand comprizing the silica, alumina, high alumina, zircon, insulating products is specially developed for the glass furnaces

We supply all kinds of glass furnaces of any dimensions

Hundreds References in

- **Furnaces Crowns**
- **Furnaces Superstructures**
- **Furnaces Bottom and Sides of tanks**
- **Regenerator Walls, Crowns**
- **Regenerator packings**
- **Feeders superstructures**
- **Tin Bath Blocks**

Fusion / Working End

HEPSIL VMA - SV - VOF

Those silica brands are produced with close tolerances to secure thin joints in walls and crowns. The Hepsil VOF is specially developed for Oxy-Firing or very corrosive zones in Air-Firing furnaces.

VERRAX 40 - 60 - TB -VERROC

Tank bottom and side blocks give with the rectification of the faces, a safety layer to the furnace tank or in the tin bath zone

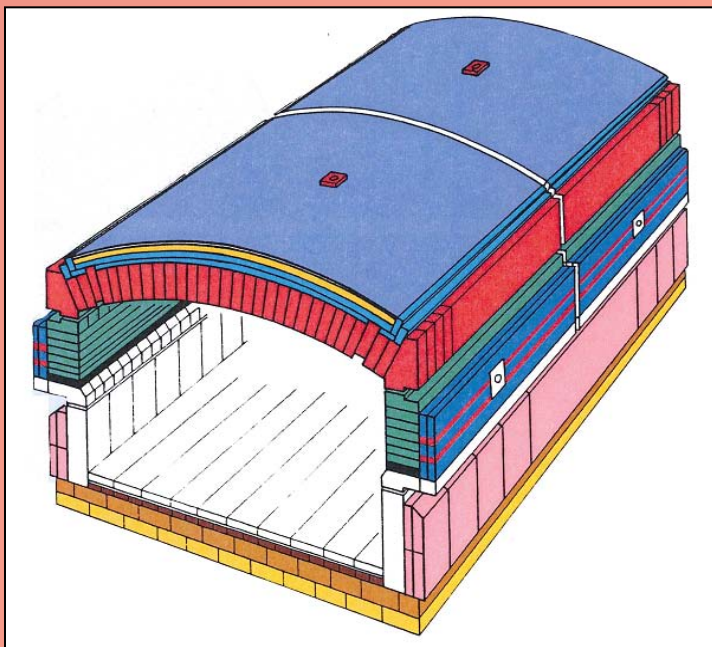
ISOREF C140-D135-A150 ISOMUL DN

Large insulating tiles also with ground faces maintain the precision of the bottom reference in the tank

To secure a long furnace campaign in continuous operation, it is mandatory to choose the adapted refractoriues.

Our range offers the following advantages:

- Resistance to alcali fumes and carry over
- Chemical compatibility with the glass bath
- Resistance to high temperatures
- Compatibility with the insulation material



	Hepsil VMA, Hepsil SV
	Zirconul, Mubel F, Hepsil VMA/SV
	Zirbel DS
	Porodina MV, L ou SL
	Isoref j125
	Thermisol TP2VFC, Etansil H
	Isoref
	Composite Block
	Zircobel P, Zircobel 1280P Ram-mix
	Zirbel DS, Zirconul
	Verrax 40, 60, Verroc 40
	Isoref C140

Fibre Glass Furnace

Mubel FV2 - F - S

To answer to the hard working condition of the furnace, we propose: MUBEL FV2 with a high creep resistance for the crown
MUBEL F for the walls and burners.
MUBEL S for the exhaust duct.

Silumite DAV

In electrical furnaces this high alumina brand is used for its low porosity.

In suspended cold flat crown, that brand offers a good security concerning resistance to thermal shock and resistance to carry over

Verrax 40 - 60 - Verroc 40

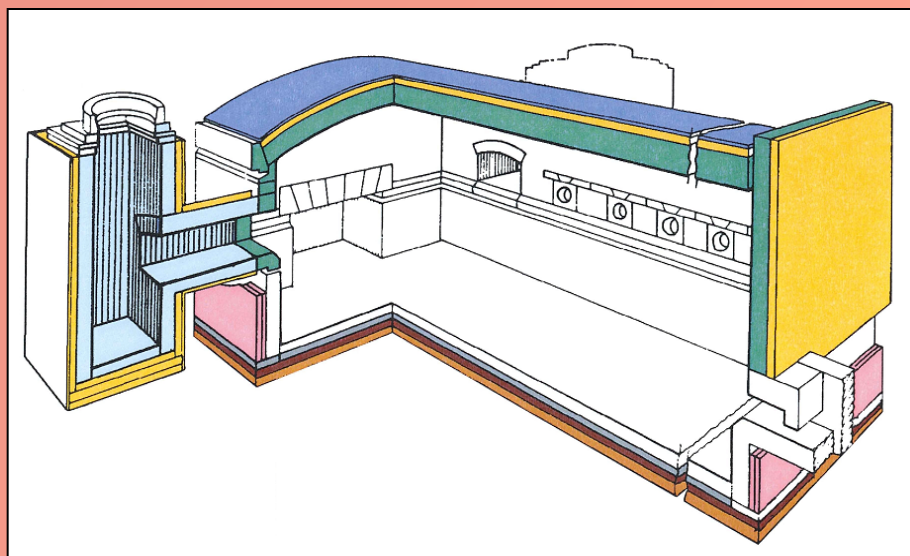
For the sole and security layer we propose a large range of alumina-silica brands.









Zirbel DS - Zircon Patches

A layer in zircon brick or patch gives a sealed security layer between the fusedcast and the fireclay products

Insulation

Tiles and insulating castables are offered to reduce the energy consume



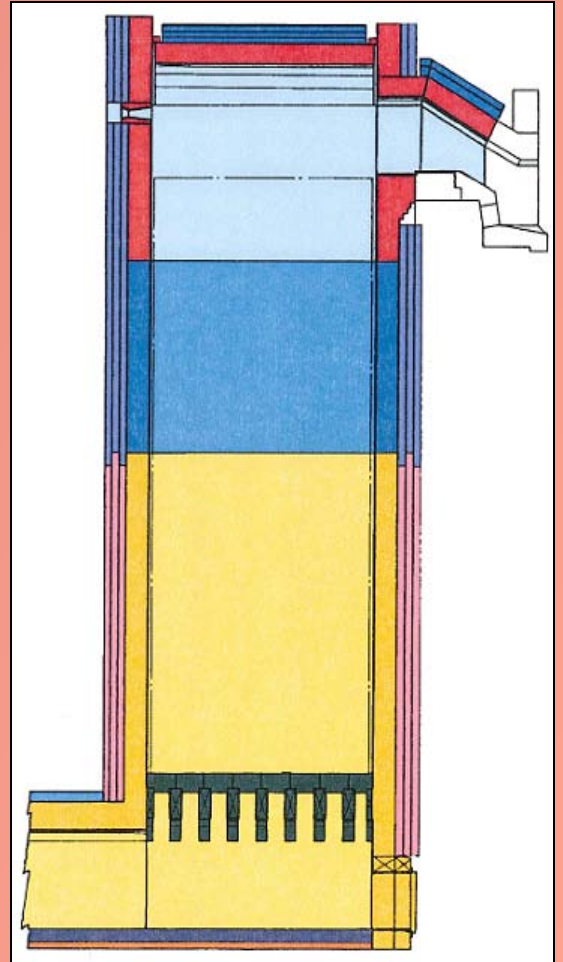
	Mubel FV2
	Mubel S
	Isulation
	Thermisol TP2VFC
	Zircobel P ou Zircobel 1280P Ram-mix
	Zirbel DS
	Verrax 40 ou Verroc 40
	Composite Blocks

Regenerator Walls

Our group Ipratec has a large range of silico-alumina and silica brands for the regenerator walls.

We will be happy to advice you in case of simple, double or triple passes regenerators and to propose you brands having the following advantages:

- Resistance to alcali , sulfate fumes and carry over
- Resistance to the repetitive thermal shocks during long production campaigns.
- Accurated dimension to reduce leaks of air through the walls
- resistance to hot cleaning

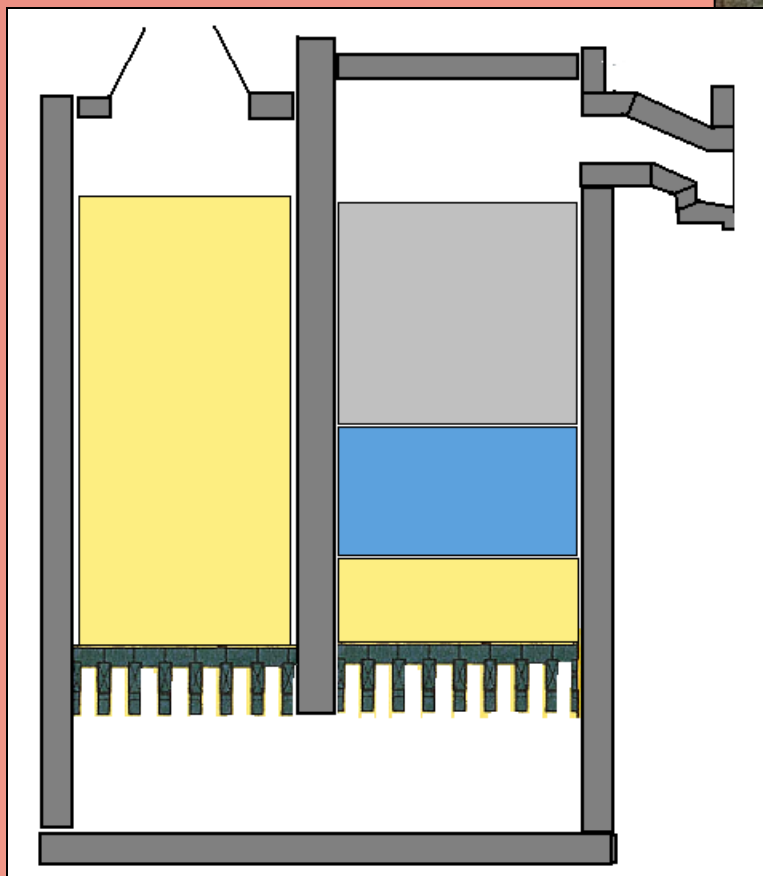
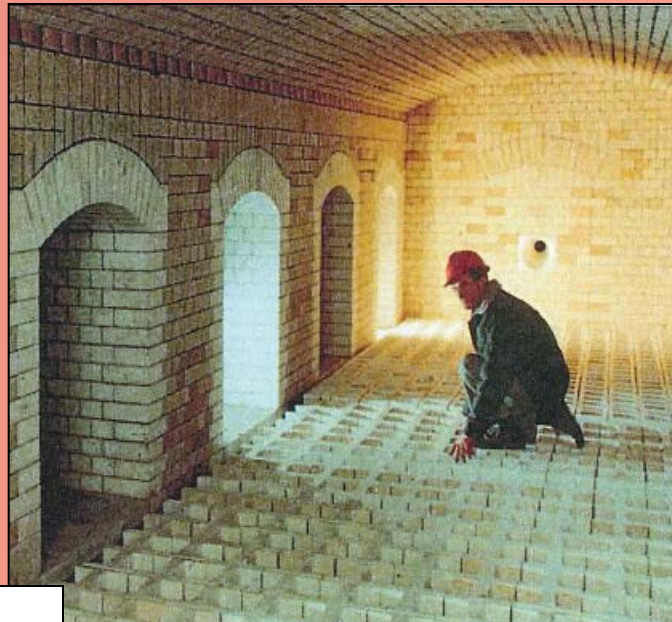






Position	Alumina	Silica
Crown	-	Hepsil VMA
Burner Port	-	-
Target Wall	Silumite 86 DAV	Hepsil VMA VOF
Division Wall	Silumite 86 DAV	Hepsil VMA VOF
Central wall	Arbel D45	-
Lower wall	Arbel D40	-
Rider arches	Silumite DAV	-
Sole	Castable	
Exhaust	Castable	
Crown Insulation	Isomul DN	Porodina
Upper Wall Ins.	Isoref	Porodina
Lower Wall ins.	-	-

Regenerator Packing

Belref Refractories produces all specific shapes used for the packing regenerators.

Low iron content silico-alumina grades are proposed, depending of the condition of work of the furnace in single, double, triple passes.



	Silumite DAV
	Arbel D45
	Silumite DAV
	Magnesia / Fused Cast

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