As the original creator of suspended refractory constructions, M.H. Detrick Company has the expertise to help improve the efficiency and dependability of your existing or future refractory application. With representation worldwide, the M.H. Detrick Company is capable of providing the appropriate enclosure for your heat-handling needs.

In the selection of a ferrous material for retaining refractories and transferring the load to the steel structure, both thermal and structural properties must be considered. Cast metal is preferred because it is manufactured under a controlled process for specific performance within heat conditions. In the event temperatures exceed the limits of these cast metals, we supply various chromium-nickel alloy castings.

M.H. Detrick Company supplies suspended refractory constructions that enhance the performance of industrial heat enclosures. Our access to worldwide refractory resources ensures that your business benefits from the best materials for your heat enclosure.

Detrick brick can be supplied in various grades of refractory best suited for harsh physical and chemical furnace conditions. Likewise, Detrick castings can be supplied in various heat-resistant ductile iron grades and stainless steel.

We can also provide a suspended refractory lining with back-up insulating materials to make your furnace more efficient by limiting BTU loss through the lining.

VALUABLE RESOURCES, ADVANTAGES & CAPABILITIES:
- Selection of refractory
- Complete bills of material
- Structural and general assembly drawings
- Domestic and export shipping
- Steel details

MAJOR INDUSTRIES SERVED:
- Coke calcining
- Cement and lime
- Copper
- Steel
- Float, fiber and container glass
- Boilers
- Lead
- Aluminum
- Incineration

HB CONSTRUCTION

Where independently hanging walls are required, our “HB” Chain Wall Construction is your solution. “HB” brick is used to build hanging baffle or dividing walls in furnaces. The adaptability of the “HB” Chain Wall Construction can be seen in its use in many different industrial heat enclosures. This wall can be exposed to heat from front, back and below. Its straightforward construction makes installation of the brick simple. The span of the wall is limited only by the capabilities of the supporting steel.

KNOWLEDGE, EXPERIENCE, RELATIONSHIPS

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M.H. DETRICK SUSPENDED CONSTRUCTIONS PROVIDE A LONG-LASTING AND DEPENDABLE SERVICE FOR DIVERSE APPLICATIONS:
- Pre-fired brick, which bonds with adjacent shapes to provide system strength and integrity throughout the lining
- Insulating materials, which enhance the unit’s overall thermal efficiency (e.g. lightweight castable, ceramic fiber-blanket and block insulation)
- Heat-resistant castings, which suspend the brick lining and transfer the load to the external supporting steel structure
- Zoned design, which provides intermittently spaced expansion joints throughout the construction, making the design easy to add to or repair while leaving adjacent constructions undisturbed

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QUALITY HEAT ENCLOSURES: CONCEPT TO CONSTRUCTION

Our business is and always will be focused on you, our customer. We understand that your business has unique furnace conditions and requirements that make refractory and casting-quality selection as important as the construction. Working closely with refractory manufacturers and foundries that make our products, we ensure that your application includes the proper grade of refractory and cast metals.

Valuable Resources, Advantages & Capabilities:
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Major Industries Served:
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Knowledge, Experience, Relationships

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FIBERGLASS AND FLOAT GLASS
MANUFACTURERS APPRECIATE THE STABILITY AND PHYSICAL STRENGTH OF OUR REFRACTORY CONSTRUCTIONS.

GLASS CONSTRUCTIONS

FLOAT GLASS

Depending on the type of glass produced—float glass, container glass or fiberglass—the production processes and heat-enclosure requirements differ considerably. Detrick offers appropriate constructions for each of these industries, including suspended feeder end walls, waist walls, waist cover arches, front walls, noses, roofs, float bath entrance hoods, and float bath entrance and exit lintels.

Fiberglass and float glass manufacturers appreciate the stability and physical strength of our refractory constructions for their own specific reasons: in fiberglass production, for their high resistance to chemical attack; and in float glass production, for their ease of installation and successful prevention of batch contamination.

The refractory for the glass industry is specifically designed for the individual customer's needs. Detrick is capable of supplying silica, bonded Alumina-Zirconia-Silica, fused AZS and bonded mullite alumina refractory. To increase thermal efficiency, insulation can be incorporated on these walls. Suspended feeder end walls with various combinations of these refractory materials have provided excellent service for extended furnace campaigns.

HK CONSTRUCTIONS

M.H. DETRICK “HK” CONSTRUCTION

“HK” brick is used to build roofs, walls and bullnoses used primarily in the non-ferrous industries such as lead, copper and hazardous—chemical waste incinerators. For non-ferrous furnace applications, our “HK” Construction is available in various grades of magnesite-chrome or high-alumina. This construction allows for quick and easy brick replacement. Worn “HK” brick is simply pulled from outside the furnace and replaced without requiring a shutdown. “HK” Construction can also be used with a rotating casting to accommodate various support-steel conditions.

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Detrick’s trademarked MSA® Construction is applicable to arches, walls and bullnoses of any span or length. Multiple variations of refractory thickness, grade and insulation can be provided to meet demanding operating specifications.

**MSA SUSPENDED WALL**

Detrick Multiple Support Wall consists of independent, replaceable panels of interlocking bricks. The heat-resistant castings stabilize and support the wall structure zone by zone. Horizontal and vertical expansion joints are provided to simplify removal of individual sections should replacement be necessary. Vertical expansion joints relieve horizontal expansion along the wall length. Horizontal expansion joints relieve vertical expansion in the wall height.

**MSA SUSPENDED ROOF**

Detrick Multiple Support Arch bricks are available in multiple thicknesses to meet individual furnace requirements. MSA bricks are interlocking, pre-fired refractory shapes made for a range of refractory grades. Each brick interlocks with the adjacent one, providing system strength and integrity through this basic design feature. Unlike posted systems that use a smaller filler brick between each hanger brick, the Detrick MSA Roof utilizes continuous hanger brick to help provide a more stable construction. The hanger support rows can be spaced on 8”, 12” or 16” centers as required.

**MSA SUSPENDED BULL NOSE**

Detrick bullnose constructions use two types of castings that support and tie back the bullnose bricks. It is a stable, versatile design that allows the bullnose to adapt to varying structural-steel support configurations.