



MECS® HEXWALL™ SULFURIC ACID PLANT SULFUR BURNERS & SPENT ACID RECOVERY FURNACES

THE MECS® HEXWALL™ SYSTEM HAS INTERLOCKING HEXAGONAL CERAMIC BLOCKS FOR FAST INSTALLATION AND SUPERIOR STRUCTURAL STABILITY

The MECS® HexWall™ system is a versatile, mechanically stable system consisting of a series of stackable six-sided blocks incorporating alternating tabs and slots on each side that are designed to ensure the blocks are positively locked together at installation. The MECS® HexWall™ system is offered in a highly creep-resistant mullite-bonded composition designed to resist deformation under load.

The MECS® HexWall™ system is stronger and more precise and uses far fewer parts than standard 9 inch brick and refractory mortar baffles, for a faster, more secure installation. Rapid disassembly and reassembly of the MECS® HexWall™ system can easily be achieved for major maintenance turnarounds. Spanning the entire inside O.D. of the burner or furnace, the MECS® HexWall™ system becomes structurally integral.

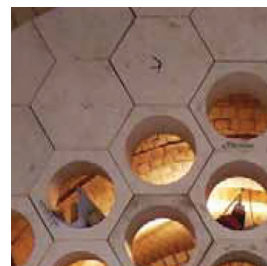
The MECS® HexWall™ system replaces and significantly improves upon traditional, weak, unsupported refractory brick baffle wall methods. Any combination of open and solid blocks may be used to create custom-designed baffle walls. The mechanical stability at operating temperatures in excess of 1650° C and has withstood excursions well above 1800° C.

MECS® HexWall™ technology is available worldwide and provides the easiest to install, most reliable and long-lasting sulfur burner and spent acid recovery furnace baffles in use today.



FEATURES AND BENEFITS

- Large hexagonal ceramic blocks are inherently stable
- Design ensures that all blocks are fully supported
- Tongue and groove interlocking joints can withstand thermal expansion
- Structural stability even in high-upset conditions
- No mortar required results in easy, fast installation
- Virtually any baffle configuration may be accommodated
- May be removed and reused for maintenance
- Successful track record in severe service applications with no failures



JAMES RIVER
HEXWALL™ DETAIL

FASTER INSTALLATION—LESS FIELD LABOR

USING MECS® VECTORWALL™ VS. TRADITIONAL BRICK BAFFLE WALL

TRADITIONAL BRICK BAFFLE WALL

3 BRICK LAYERS
3 LABORERS

MECS®
VECTORWALL™

1 SKILLED
2 LABORERS

Relative installation time

The example above is based on a 5 m I.D. sulfur burner. Contact a MECS, Inc. (MECS) sales engineer for the estimated time and labor savings using MECS® HexWall™ technology in your specific application.

MECS® HEXWALL™

SULFURIC ACID PLANT

SULFUR BURNERS & SPENT ACID
RECOVERY FURNACES

DESIGNED FOR USE IN WALLS THAT ARE 3 METERS OR GREATER IN HEIGHT

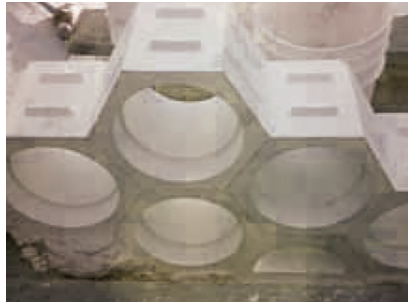
These 18 in. deep blocks have double the footprint and therefore improved stability.



SUPERIOR STRUCTURAL STABILITY



ALTERNATING TABS
AND SLOTS ON
EACH SIDE



BLOCKS ARE LOCKED
TOGETHER AT
INSTALLATION



HEXAGONAL BLOCKS ARE
INHERENTLY STABLE



A FAST, SECURE
INSTALLATION



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