



ENGINEERED ALLOY PRODUCTS

ZECOR® PACKING SUPPORT SYSTEMS

MECS® ZECOR® ALLOY PACKING SUPPORT SYSTEM PROVIDES THE OPTIMUM DESIGN FOR SULFURIC ACID PLANT TOWERS.

The MECS, Inc. (MECS) design replaces both ceramic grid bars and grid blocks. While the ZeCor® alloy packing support system is the natural choice for new alloy towers, it can also be installed in existing brick-lined towers for a retrofit application. ZeCor®-Z corrosion-resistant metal alloy is the primary material of construction employed in this design, but other alloys such as ZeCor®-310M metals can also be used depending upon process conditions. The ZeCor® alloy packing support system is supplied in pre-fabricated sections, convenient for ease of handling and suitable for insertion through available man-ways. No welding is required during assembly. Installation schedules are significantly reduced compared to traditional ceramic domes and Aludur® beam construction. ZeCor® alloy packing support systems have additional distinct advantages over ceramic systems. They can absorb thermal and mechanical shocks and require much less handling, resulting in lower field labor expense.



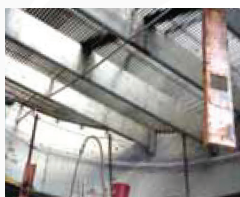
ZeCor® packing support systems provide the maximum open area for lowest gas pressure drop and highest efficiency in brick-lined, ZeCor® or other alloy sulfuric acid plant towers.

FEATURES AND BENEFITS:

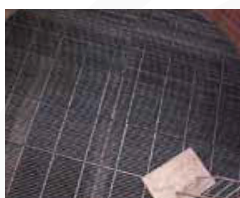
- Strong and lightweight for easy handling and field assembly
- Absorbs thermal and mechanical shocks (unlike ceramic)
- Available for new towers and field retrofits
- Welding is not required for assembly
- Sections sized for insertion through existing man-ways
- High-quality shop-fabricated sections minimize costly field labor expenses and expedite the installation schedule
- Custom-designed for maximum tower efficiency, specific to your application
- Materials of construction selected for process conditions to eliminate corrosion



**PACKING SUPPORT
SYSTEM CLOSE-UP**



**PACKING SUPPORT
SYSTEM BELOW**



**PACKING SUPPORT
SYSTEM ABOVE**

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COMPARISON OF COMPETITIVE PACKING SUPPORT SYSTEMS

The chart below compares four tower packing support systems with respect to the open areas at the primary and secondary supports. The advantage of the MECS® ZeCor® alloy packing support system is clear:

	Type of support system	Open area at primary/secondary support	Open area at primary support
ZeCor® alloy packing support system		80%	80%
Aludur® beams on 8 in. centers		59%	83%
Aludur® beams on 6 in. centers		48%	77%
Self-supporting dome		37%	60%

Aludur® is a registered trademark of Saint-Gobain NorPro.



ZeCor® packing supports are designed with more than 80% open flow area resulting in excellent gas distribution.



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