

Case Study

Catalyst Support Grid

Profile

These statements came from one of our customers, a prominent Gulf Coast manufacturer and leader in separations technology solutions in Texas. They focus on offering customized separations solutions that optimize critical customer processes in the hydrocarbon production and processing industries.

They provide solutions in various industrial sectors such as O&G production, pipeline & transmission, gas processing, refining, chemical & petrochemical facilities.

Challenge

For one of several cases, they approached Delta Screens with a filtration inquiry for a catalyst support grid.

This flat, wedge wire screen assembly was required to support catalyst media and needed to have high strength, corrosion resistance, temperature resistance, allow for proper flow characteristics and have a long service life. That is what they promised their client and needed to deliver for the reactor vessel they were tasked to fabricate. This support grid was required to be completed by Delta Screens within a 3-week timeline to meet project deadlines.

“Delta’s responsiveness was one of the main reasons we have stayed with Delta.”

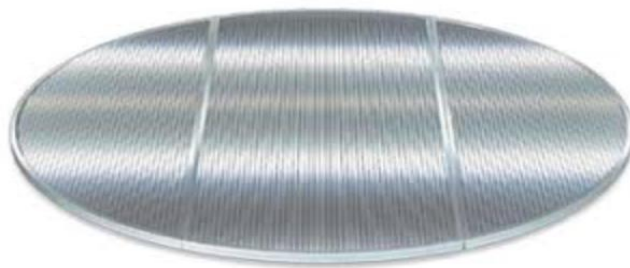
“Delta staff is very technical, you have an impressive facility, and you are also able to technically assist our clients, which is important to us.”

(General Manager)

“Increasing catalyst bed life increases overall profitability by increasing up time, reducing catalyst replacement cost and aligning shut-downs to plant wide maintenance schedules.”

(Excerpt from customer website)

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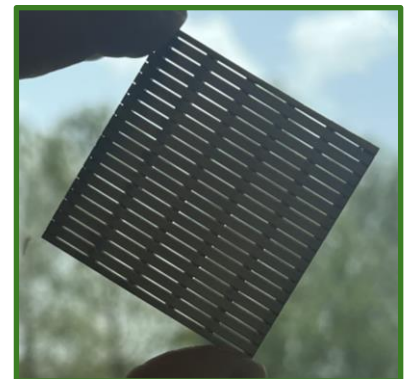
Solution

Developing a solution to meet these demanding working conditions requires industry expertise, manufacturing capability and engineering / design competency with timeliness in mind. This is what Delta Screens & Filtration offers to our customers.

Our highly experienced Industrial Engineer obtained the necessary dimensional, operational and material specifications criteria and proceeded to engineer and design an appropriately sized catalyst bed support grid made from stainless steel bar and Delta Screen's wedge wire filter media. After detailed drawing and customer approval, the support grid was fabricated in Houston with Made in America materials, something we take pride in providing to our customers who are seeking long-term quality fabricated solutions.

This 63" diameter modular (multi-piece) catalyst support grid was designed, fabricated and delivered to our customer within the promised turnaround date of 3 weeks.

Delta Screens & Filtration continues to fabricate these modular support grid units for this valued customer.



Wedge wire filters are made with precision gap (slot) size to meet the desired flow requirements and solids particulate filtration.

We can provide from 0.002" (50 micron) gaps with best-in-class tolerance of +0.002"/-0.001".