



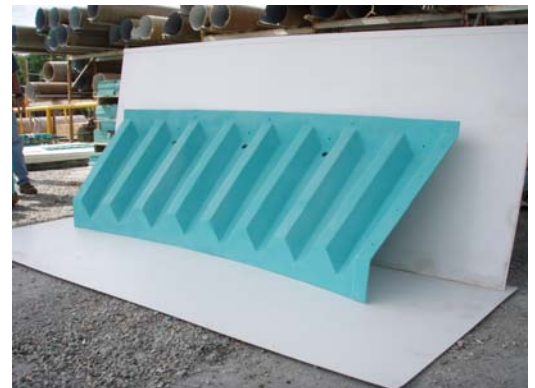
FOR IMMEDIATE RELEASE:

**BAFFLING DEVELOPMENT IN CLARIFIER EVOLUTION:
PATENT-PENDING FRP CORRUGATED-DENSITY CURRENT BAFFLE
SIGNIFICANTLY REDUCES INSTALLATION, COST & MAINTENANCE**

Since the development of the Stamford density baffle with the integrally molded-in end supports there have been no improvements on the standard design. MFG Water Treatment Products Company (MFG-WTP: Union City, PA) has recently developed the next generation Corrugated-Density Current Baffle (C-DCB). The patent-pending C-DCB design is made of FRP (fiberglass reinforced plastic) which is stronger and lighter weight without the use of any molded-in steel for strength.

With formal U.S. patent (USPTO) fully filed and recorded (November, 2005) MFG-WTP's advanced density baffle design features a unique corrugated shape that significantly reduces deflection of deposits from coming back up into the center of the clarifier. Comprised of FRP material it's also easier to install than the previous designs due to the part being lighter in weight and requiring fewer fasteners than the previous designs.

MFG engineering calculations for the C-DCB show increased strength against the industry standard designs without the use of any structural steel, with thinner fiberglass panels, which produce a part lighter in weight. The strength increase will give parts that are capable of higher wind and snow loads and give lower deflection to the C-DCB.



The C-DCB is mounted on the side of the clarifier wall, below the effluent launder and scum baffle, sloping downward at a 45 degree angle and extending toward the center of the tank beyond the scum baffle. Installation is also placed at a higher level than standard density baffles to improve overall affluence; directing water away from the wall and back into the bottom-center of the tank. This combination of design and installation promotes the settling of more solids at the bottom of the tank and prevents deposits from coming back up into the center of the clarifier.



CONCLUSION:

According to Dennis Vorse, MFG-WTP General Manager, “The FRP material makes a lighter part and combined with the patented configuration gives it superior strength without molded-in steel. So in the end you’ve got a stronger, thinner, more cost-effective & easier to install solution.”

Vorse also noted the internal load testing (physical property vs. weight) conducted by MFG-WTP that proved the superiority vs. the competition, “A section that was tested showed an increased load differential for the C-DCB design: competitive density baffles (fixed at top and bottom sides) deflected over more than the C-DCB (fixed at top only).”

Acceptance is gaining for the new C-DCB concept as many municipalities have already incorporated it into their waste-water treatment systems including: Washougal, WA, Hicksville, OH, Provo, UT, and Brighton, CO amongst others. According to Jim Kauffman, City of Brighton Water Treatment Manager, “Our TSS (total suspended solids) parameters are measured daily and the overall quality has improved with the new C-DCB. The thinner baffle laminate is actually stiffer and stronger. Also, it’s placed at the right angle and installed higher which significantly improves the affluent.”



CORPORATE PROFILE:

For over 30 years MFG Water Treatment Products Company has played a significant role in supplying the water and wastewater treatment industry with advanced fiber reinforced polymer (FRP) products. MFG-WTP offers a broad line of FRP products in standard shapes and sizes; with all parts and assemblies designed to customer specifications by qualified engineers and produced under rigid engineering and quality control standards.

Depending on the specific product, it achieves the ANSI*/NSF**61 certification for potable water as well as ANSI/AWWA+ F101 contact molded or F102 matched-metal-die-molded components.

* American National Standards Institute ** NSF International + American Water Works Association

MFG-WTP is part of twelve key Molded Fiber Glass Companies (MFG: Est. 1948/Ashtabula, OH) entities specializing in optimizing resins and FRP products for myriad of commercial/industrial market applications including: custom-molded composite components for heavy truck, automotive, wind energy, agriculture and rail transport, and propriety products for material handling, construction, telecommunications, water treatment and other commercial industries worldwide.

Author:

Mike Sjostrom / MFG Water Treatment Products / 814-438-3841 / msjostrom@mfgwtp.com

Editorial & Photo Contact:

Ray Farrar / Method Media LLC / 216-861-0862 / rayf@methmedia.net