



# Anti-Microbial Test Information

<p>Test Methods</p>	<ul style="list-style-type: none"> <li>• The Standard JIS Z 2801, Test for anti-microbial activity and efficacy. The materials were in the form of 2” x 2” flat test samples.</li> <li>• The testing process requires that the samples be sterilized, inoculated with a controlled amount of each bacterium, incubated at 35°C for 24 hours, and finally washed and tested for viable bacteria.</li> </ul>
<p>Calculation of Antimicrobial Activity (R)</p>	<ul style="list-style-type: none"> <li>• <math>R = (\text{Log (Bacterial Count of Untreated Control after 24 Hour Incubation)}) - (\text{Log (Bacterial Count of Test Piece after 24 Hour Incubation)})</math></li> </ul>
<p>Criteria for Judging Antimicrobial Activity (R)</p>	<ul style="list-style-type: none"> <li>• When the sample displays an R value of 2.0 or greater it is judged to have anti-microbial efficacy.</li> </ul>
<p>Bacteria Tested and Test Results</p>	<ul style="list-style-type: none"> <li>• The bacteria tested were Legionella Pneumophila Serogroup 1.</li> <li>• The base materials tested were Delta Compounded HDPE, FRP, and Stainless Steel. <u>The Delta AM-HDPE Tower material was the only material deemed Anti-Microbial.</u></li> </ul>
<p>Who Did the Testing</p>	<ul style="list-style-type: none"> <li>• Special Pathogens Laboratory, The Legionella Experts®, in Pittsburgh, PA., provides expertise in the detection, control, and remediation of Legionella and other waterborne pathogens. Led by Drs. Janet E. Stout and Victor L. Yu, world-renowned pioneers and experts in Legionnaires’ disease prevention. They provide total Legionella control, an integrated platform of solutions to prevent outbreaks, save lives, and endeavor to end Legionnaires’ disease.</li> </ul>