

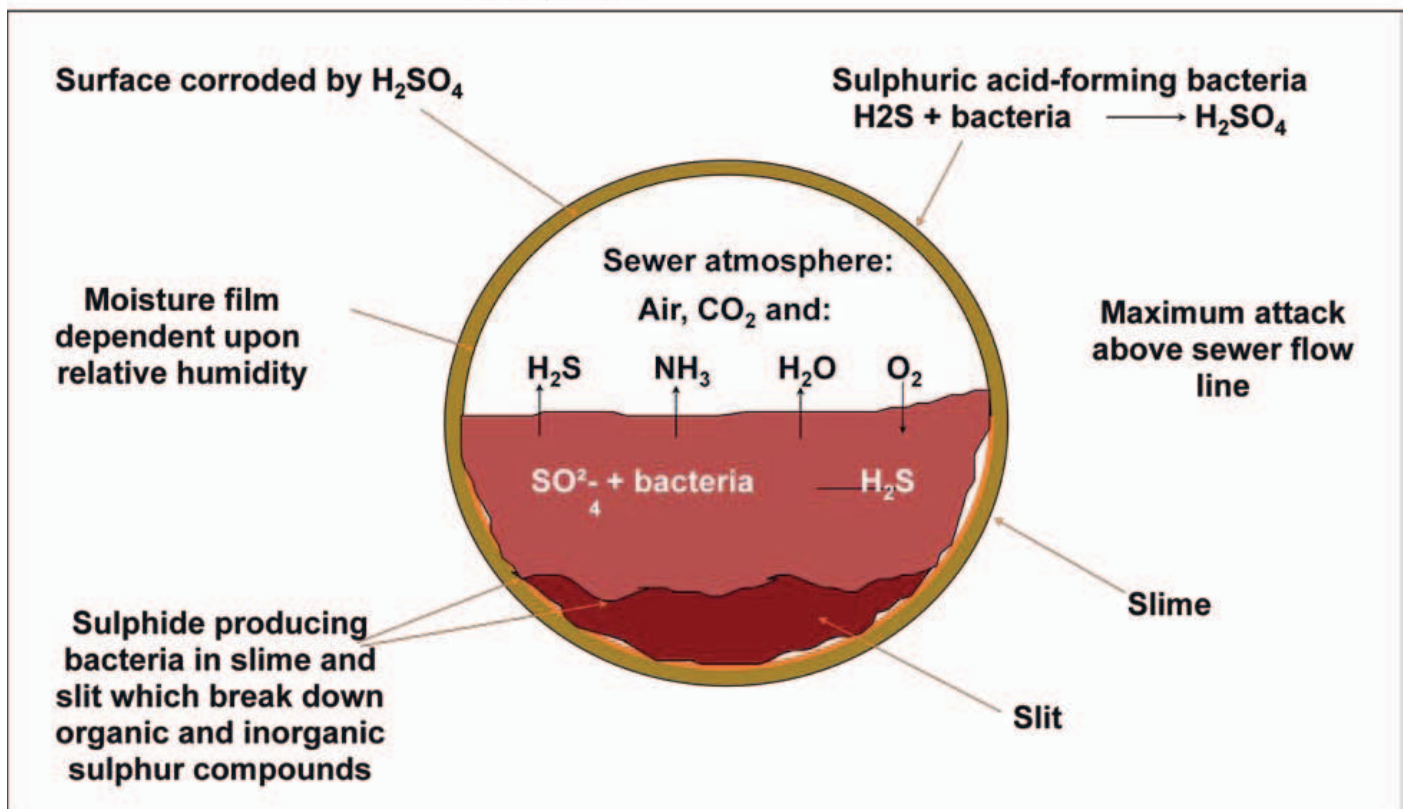
## Strain corrosion tests

### Strain accelerated acid attack

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Cross-section of a sewer showing the biochemical reactions which occur in the system.



## Test procedure

■ Strain corrosion test for GRP pipe used in sewer application is carried out in accordance with ASTM D3681. The salient features are:

■ 10,000 hours minimum exposure to acid

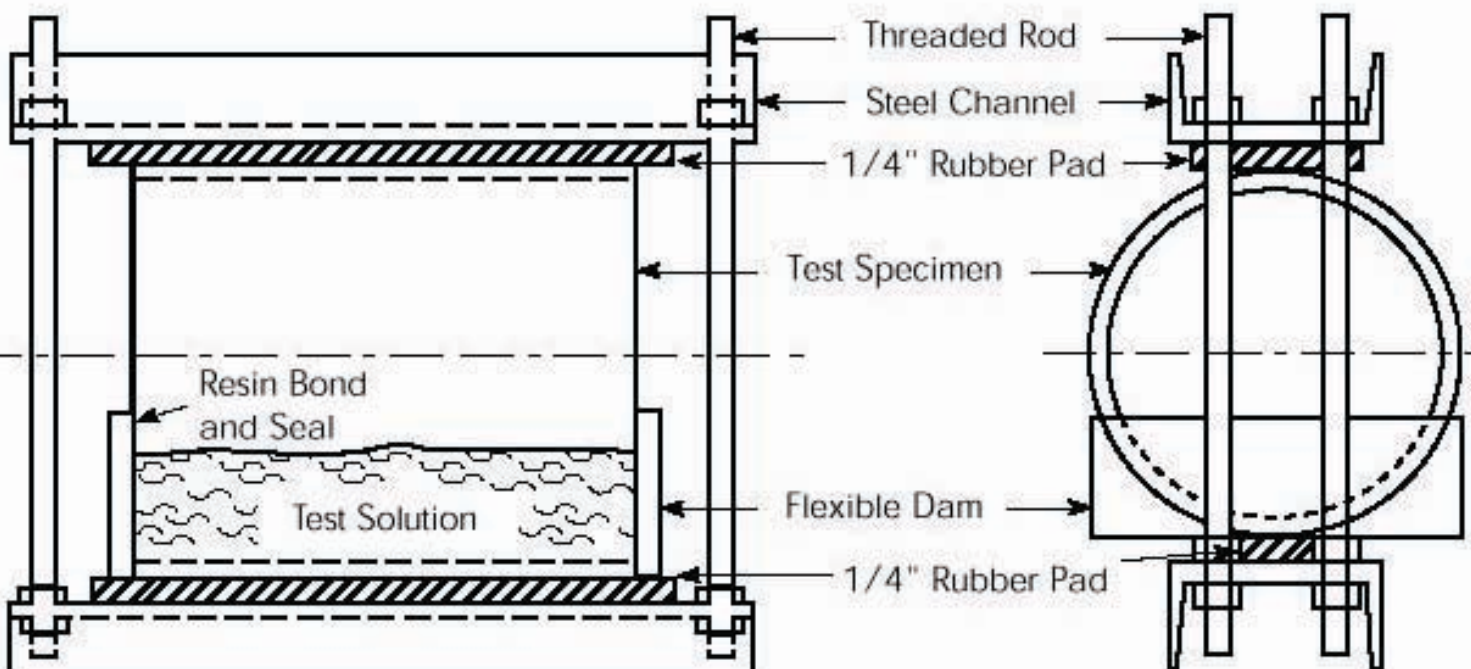
■ Minimum 18 specimen of pipes to be deflected at various levels and held constant

■ To simulate buried sewer septic condition, strained rings are exposed at the invert of the interior surface to 1.0N (5% by weight) sulfuric acid.

■ Minimum factor of safety 1.5 applied to 50-year value.

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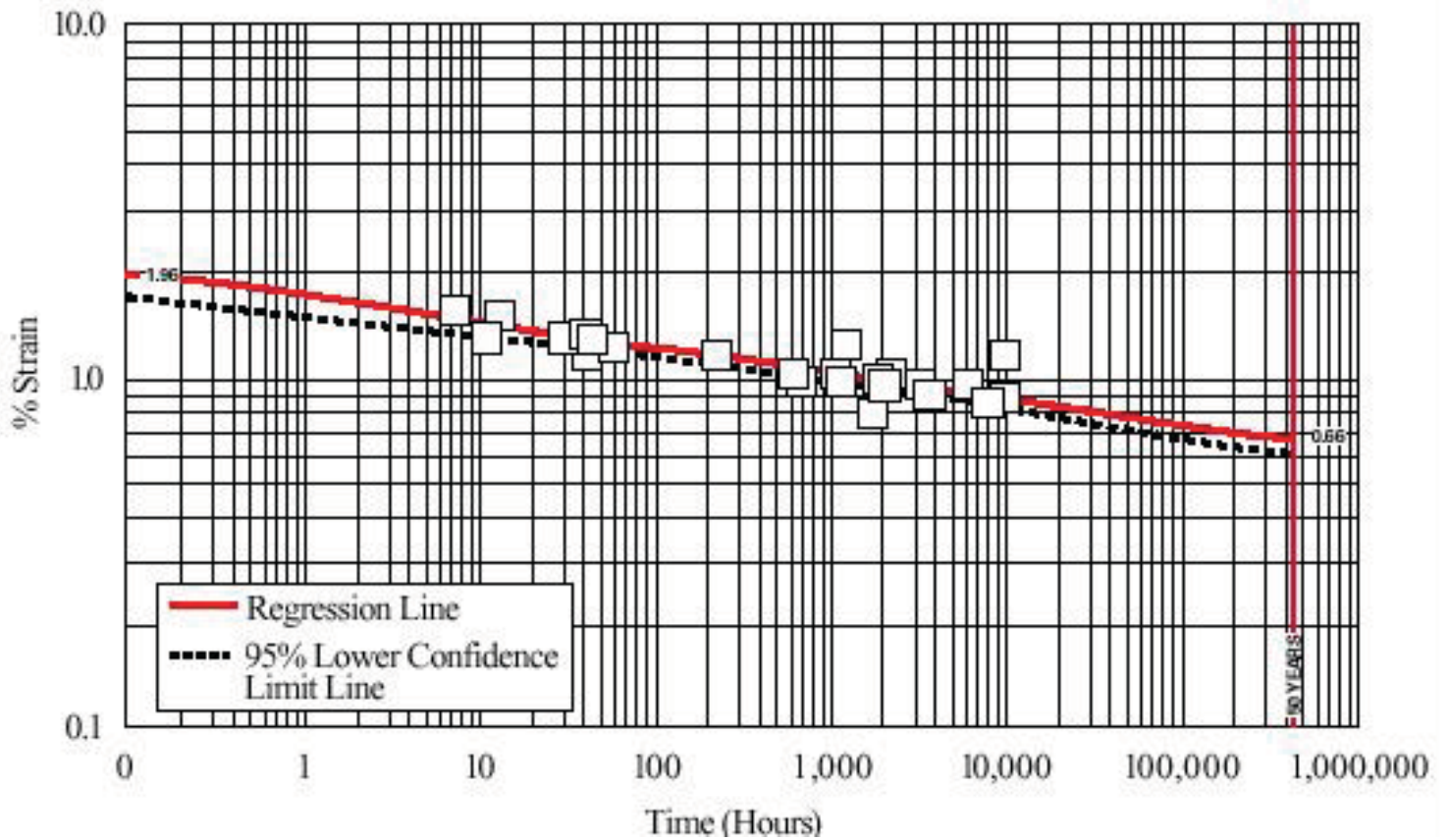
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# Test results

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## Pacific GRP Pipe Systems

GRP pipes have a history spanning more than 60 years and with well proven and tested standards. The most commonly used are AWWA, ASTM and ISO standards and those are also the base for the Indian BIS standards. In the early days, due to the higher cost of raw materials, GRP pipes had a disadvantage against metallic pipes but even in this situation, GRP pipes were the fastest growing pipe material in the world in market share. It was supplied at a premium price due to the benefits in corrosion resistance and long term performance. Since then the raw material cost ratio has changed to the advantage of GRP pipes over metallic pipes. Now we supply a superior product at a more competitive price than traditional pipe materials.

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