



HY-TEN GABION SOLUTIONS
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DATA SHEET:- TRIPLE LIFE CORROSION PROTECTION

TRIPLE LIFE corrosion protection is a 95% Zinc 5% Aluminium coating applied to the wire prior to fabrication of the welded mesh. Triple Life is a trade mark name for the process developed by The Galfan Institute. It has the same corrosion protection as Bezinal or Galmac.

Zinc Aluminium coatings are superior to pure zinc coatings (galvanising) in that the rate of corrosion is parabolic rather than linear. The reason for the parabolic rate of corrosion is that the zinc corrodes at a faster rate than aluminium, hence during the corrosion process as the zinc element corrodes, an aluminium rich surface is developed, which has greater resistance to corrosion, thereby extending the life of the protection.

A further advantage of the coating is that it has a finer microstructure and provides better cathodic protection. Accordingly, should the surface become scratched the corrosion protection is maintained (i.e. it is self healing).

Based on long term site trials, it has been established that the durability of the zinc-aluminium coating is three to four times the life expectancy of a pure zinc coating for the same coating weight.

In gabion manufacture zinc-aluminium coating has replaced the pure zinc coatings. It has also replaced PVC-Zinc coatings, except in extreme exposure conditions where gabions are subjected to saline or salt spray conditions.