



Dunstall Hill Trading Estate,
Gorsebrook Road, Wolverhampton, WV6 0PJ
Tel 01902 712200
Fax 01902 714096
E-mail: sales@hy-tengabions.com
Web: www.hy-tengabions.com

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 Galfan Institute and is the same corrosion protection as referred to by other trade names such as Bezinal or Galmac. Each manufacturer provides its own trade name for the process and is licensed by Galfan Institute.

Zinc Aluminium coatings are superior to pure Zinc coatings (galvanizing) in that the rate of corrosion is parabolic rather than linear as for pure Zinc coatings. The reason for the parabolic rate of corrosion is that as 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 finer microstructure and provides better cathodic protection such that the surface become scratched the corrosion protection is maintained, (It is sometimes referred to as self-healing).

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

For Gabion manufacture, zinc-aluminium coatings have replaced the pure zinc coatings and in some cases it replaces PVC-Zinc coated materials, except in extreme exposure conditions where gabions are subjected to saline or salt spray conditions.