YOUR GUIDE TO SECTOR CORROSION PROTECTION

As most of you will know, the **SECTOR high-volume traffic barrier** enclosure is available with differing levels of corrosion protection, which are specified according to the environment and atmospheric conditions in which the barrier is to be installed.

What you may not be clear on, is when it is appropriate to specify a certain **corrosion protection** level, and why it is necessary to do so in the first place.

Think of it in terms of our own sensitivity to certain atmospheric conditions: when one goes down to the beach without any sort of skin protection, one invariably ends up redder than a lobster which has just had its first kiss. Thus, we wear sunscreen to prevent our skin from turning a rather unflattering crimson hue.

While steel is normally unaffected by the sun, the presence of moisture and salt in the air is likely to cause a reaction with the metal and leave your barrier looking as though it has a nasty rash. This is typical in coastal and marine regions, and for exactly this reason SECTORs installed in these environments are given 'corrosion protection' to safeguard against the effects of atmospheric catalysts.

The very useful chart below was compiled by Grant Rens, and helps to explain the extent of the corrosion protection as applied to the different SECTOR variants.

Corrosivity Category	**CENTURION Enclosure model**	**Corrosion protection details**
C3 or less	Low corrosion protection	Enclosure - Zinc plated with epoxy coating. Bottom enclosure frame – hot dip galvanised steel. Other steel parts – ultra seal (motor grade zinc electroplating with post process lacquer seal)
C4	Medium corrosion protection	Enclosure – Grade 430 stainless steel with epoxy coating. Bottom enclosure frame – hot dip galvanised steel. Other steel parts – ultra seal (motor grade zinc electroplating with post process lacquer seal)
C5	High corrosion protection	Enclosure – Brushed Grade 316 stainless steel. Bottom enclosure frame – Grade 316 stainless steel. Other steel parts – Either Grade 316 stainless or equivalent grade of stainless steel depending on the geometry of the steel section (either sheet or bar/rod)
C5 plus	High corrosion protection plus	Enclosure – Grade 316 stainless steel with epoxy coating. Bottom enclosure frame – Grade 316 stainless steel. Other steel parts – Either Grade 316 stainless or equivalent grade of stainless steel depending on the geometry of the steel section (either sheet or bar/rod)

Click here for an explanation of corrosivity categories and exposure levels for different regions.