

## **100% Stainless 100% Solution**

For coastal or heavily polluted regions of the country, when attaching stainless steel hardware, or where prolonged guarantees are being offered, we recommend that stainless steel screws should be used.

### **Enhanced Martensitic – Grade 410 100% stainless steel**

Ideal for steel reinforcement:

Screws manufactured from enhanced 410 grade stainless steel, widely used in the U.K. are designed and manufactured specifically for drilling and tapping through galvanised steel reinforcement.

Enhanced Martensitic stainless steel screws are magnetisable, allowing for easier and more accurate use in the factory. On-site confirmation that stainless steel screws have been used is achieved by way of an identification mark stamped onto the head.

Enhanced Martensitic stainless steel screws provide a high performance corrosion resistant solution from a single length of 100% stainless steel wire.

### **Austenitic – Grade 302 – 100% stainless steel**

Ideal for PVC-U only applications:

By specifying austenitic fasteners for PVC-U only applications, you ensure a high performance, corrosion resistant screw capable of out-living the window and many of it's components.

#### **Not ideal for steel reinforcement:**

Austenitic stainless steel is intrinsically soft. Although ideal for PVC-U only applications, and acceptable into thin aluminium, it will not reliably self-drill or self-tap through galvanised steel reinforcement. Therefore, some austenitic screws are either treated or manufactured in such a way as to overcome this problem.

#### **Bi-Metallic**

These screws have an austenitic head and 'top' portion of thread with carbon steel drill point and partial thread. Often accepted by Councils and Housing Associations for use in the manufacture of windows and doors.

Austenitic stainless steel is non-magnetic, therefore on-site confirmation is achieved by use of a magnet. Please contact **rapierstar**® for details if Bi-Metallic screws are required for 'fully austenitic' contracts.

### **Identification of Stainless Window screws**

Unique head design eliminates confusion between the grades of stainless steel used. Clear product marking on the head of **rapierstar**® window screws allows immediate identification of the grade of stainless steel from which the screws are manufactured. This ensures that specifications are adhered to.



### **Austenitic Stainless Steel - 302**

Because 302 grade Austenitic stainless steel is intrinsically soft, it is unsuitable for self-drilling applications. However, it is ideal for use in PVC-U only applications, giving excellent corrosion resistance.



### **Enhanced Martensitic Stainless Steel - 410**

410 grade Martensitic stainless steel is a harder grade which is capable of self-drilling and tapping into steel reinforcement. Screws are independently tested by UKAS accredited test bodies to beyond 3000 hours salt spray test in accordance with BS EN ISO 9227.



#### **Bi-Metallic**

Austenitic stainless steel fastener with a carbon steel drill tip. Suitable for reinforced applications. Combination recess with square drive giving effective 'stick-fit' onto the driver bit for ease of insertion during fabrication and common Phillips no2 recess for on-site adjustment.