

## Specification and Finishes Guide

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Atrim profiles need to be checked at point of specification, for suitability of application in any given area. Chemical reaction, intermetallic corrosion and mechanical stresses must all be taken into consideration.

### **Atrim PVC**

Coloured un-plasticised Polyvinylchloride is a pre-mixed pigment in a liquid vinyl, which is formed into a rigid coloured trim. Resistant to scratching and bending, it is UV stable and has a high gloss finish.

Atrim PVC is suited for use in domestic and some commercial applications of light duty colour matched finish.

Atrim PVC is not suited for use outside, where discoloration will occur and cracking in inclement weather conditions, chemical failure from swim areas of finish positions of high stress such as step edges.

### **Atrim Aluminium**

Atrim aluminium profiles are composed of a primary alloy particularly suitable for a more complex extrusion process. They offer a high general tolerance along with a top quality natural state for further finish treatments.

An extruded alloy in various tempered compositions -

#### **Atrim Natural/Mill:**

A light grey semi reflective state. This is not suitable for outside due to atmospheric corrosion. Material in natural state.

#### **Atrim Anodised:**

A corrosion resistant finish, which is an electro-chemically applied anodic oxidation. A process against corrosion generated by atmospheric agents not associated with the galvanisation process.

Treated profiles become uniformly matt and can then be colour dipped to produce a bright finish in Gold or Chrome. The colour dipped profiles retain the same chemical and mechanical resistance as the standard anodised trims.

#### **Atrim Chrome:**

Consists of a special pre-shine chemical/machine process and then of a colour dip for the Gold and Chrome finish. The profile product maintains the same chemical and mechanical resistance qualities as the anodized versions with an aesthetic bright appearance which make it similar to gilt or chromed surfaces.

#### **Atrim Powder Coated:**

Powder coated profiles are 7-stage pre-treated with a chrome-phosphate dip, and then charged to be coated electrostatically. This results in an elevated tolerance to atmospheric agents and UV stabilization. The entire visible surface undergoes an average 60 micron coating. In addition, the colour fastness by heat impression, supplies a further guaranteed resistance to mechanical impact and chemical aggression.

### **Atrim Brass**

Characterised by a high tolerance to mechanical stress which means they can be used in areas of high transit such as floor trims, stair edgings and transition strips. Brass profiles are either hot extruded or cold rolled, and are resistant to chemicals associated with ceramic floor laying.

Constant humidity may result in oxidation and a darkening, but this can be removed with appropriate cleaners. Atrim Brass Polished is achieved with buffing machines which enhance the natural shine without altering mechanical properties.

### **Atrim Chromium Plated**

A high gloss mirror finish which is achieved through electroplating. The finished surface has high resistance to chemical aggression but limited resistance to mechanical impacts and persistent abrasion.

### **Atrim Stainless Steel**

Produced through a cold rolling procedure with a steady thickness control.

They differ from the correspondent Brass or Aluminium profile version manufactured with the hot extrusion processes of which they maintain nevertheless, the application and dimensional characteristics.

Stainless steel is effectively resistant to high mechanical solicitations and is particularly indicated for the chemical, food processing and hospital environments to meet the stringent standards of hygiene, durability and chemical resistance requirements.

The brushing and mid polishing finish process is obtained through quartz-fibre nylon rotary brushes which create the matt effect on the profile but leave the characteristics unaltered.

#### **Stainless Steel profiles are available in two grades:**

##### **Stainless steel - 304 Grade:**

Steel belonging to the austenite category which composes the most popular alloy aggregate for a performing product. It is resistant to the most commonly used chemicals, but it may spot or darken on the top surface. In such cases, it is easily buffed out with a conventional polishing product to bring it back to its original shine and can be cleaned with powerful cleaning agents.

##### **Stainless Steel – 316 Grade:**

As belonging to the same category, this alloy aggregate comprises of Nickel, Chrome and Molybdenum. The latter conferring an excellent resistance to the harsher conditions such as the presence of Chlorine and Salt concentrates.