

# Forma Column Casing

## H72/420 Metal Column Casings

**Manufacturer:**

Encasement Ltd, Peartree Business Centre, Enterprise Way, Bretton, Peterborough, PE3 8YQ  
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**Product Reference:** Forma Metal Column Casings

**Material:**

3mm aluminium as standard. Other materials are available including stainless steel, copper and Rimex metals.

**Size:**

Bespoke sizes and profiles to suit individual project requirements.

**Finish/Colour:**

Available as standard in any aluminium finish from mill to bright polished, Polyester Powder Coated (PPC) to any RAL or BS 4800/381C.

**Fixings:**

Integrated and engineered metal framework system allowing for building/construction tolerances and removing the need to fix directly back through the structural steelwork thus avoiding penetration of any structural fire protection coatings.

**Jointing:**

Optional flush or recessed concealed jointing system for both vertical and horizontal applications. Available to suit project requirements.

**Accessories:**

Collar for the head, skirting or mid level.  
Decorative jointing features.  
Internal stiffening braces.  
Perforations for back lighting and air flow.  
Acoustic or thermal linings.

**British Standards:**

Rolled products – BSEN485  
Extruded Products – MSEN 525, BS EN 573, & BS EN 755  
External PPC – BS 6496/7  
Polishing – BS1134 Part 1 – Assessment of surface texture.  
Anodising – BS 3987 (25 Microns)

**Fire Classifications:** Aluminium alloy components are widely used in buildings as cladding and roofing materials, windows and doors. As defined by BS476: Part 4 and the 1974 SOLAS Convention (as amended) aluminium alloys are non combustible and also provide Class ) surface spread of flame. In addition BS 476 Part 3 covers external fire exposure tests and the classification laid down in the standard range from AA to DD. The first letter refers to the fire penetration performance and the second letter to the surface spread of flame. Aluminium and its alloys are rated AA, the highest possible under the classification system. Materials are also tested for fire propagation performance to BS476 Part 6 (1989) and coating systems are taken into account. Aluminium achieves excellent ratings under these standards. Products that are powder coated will mean a class '1' surface spread of flame.

As with all metallic materials as the temperature increases the strength of the aluminium alloy is reduced at a rate dependent on the alloy. The structural aluminium alloys have useful maximum working temperature limits that range from 200 degrees to 250 degrees centigrade. Above this temperature the strength is significantly reduced. Recent tests on a structure did show however that although parts of the structure reached close to 300 degrees centigrade they were able to carry the required loads.

**Recycling:** Aluminium has the advantage of having a high scrap value and is therefore economic to recycle into re-usable high grade materials. Recycling aluminium needs only 5% of the energy required to extract from bauxite ore.

**Reflection of radiant energy:** Aluminium is an excellent reflector of heat and light (in natural finish) About 75% of the light and 90% of heat are reflected.

**Strength:** Commercially pure aluminium (99.5%) produced in temper hardened condition has a useful degree of hardness and excellent forming qualities.

NB –A site survey service is available once the steel work has been installed to ensure the correct casing is used. Drawings are available in a PDF & DWG format on <http://encasement.co.uk/technical-drawings.aspx>