

# 6005 / 6005A Aluminium Extrusions

Smiths Profiles

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## Hardenable aluminium extrusions

A popular extruded product for various commercial applications, 6005 & 6005A offers good ultimate strength.

6005 and 6005A aluminium are common construction alloys that are hardenable and can be extruded and used in a wide range of commercial applications.

Whilst pure aluminium is inherently a soft material, the alloys' strength increases by alloying with one or more additives or cold treatment. The introduction of magnesium in the alloying process of 6005 aluminium and 6005A aluminium alloys increases the hardening effect.

### Good Ultimate Strength

Both 6005 and 6005A aluminium have good overall ultimate strength, and 6005A has improved impact strength. The weldability of both these alloys is also superior. Both alloys are suitable for decorative anodising.

### Key Features:

- Hardenable
- Good overall ultimate strength
- Wide range of commercial applications

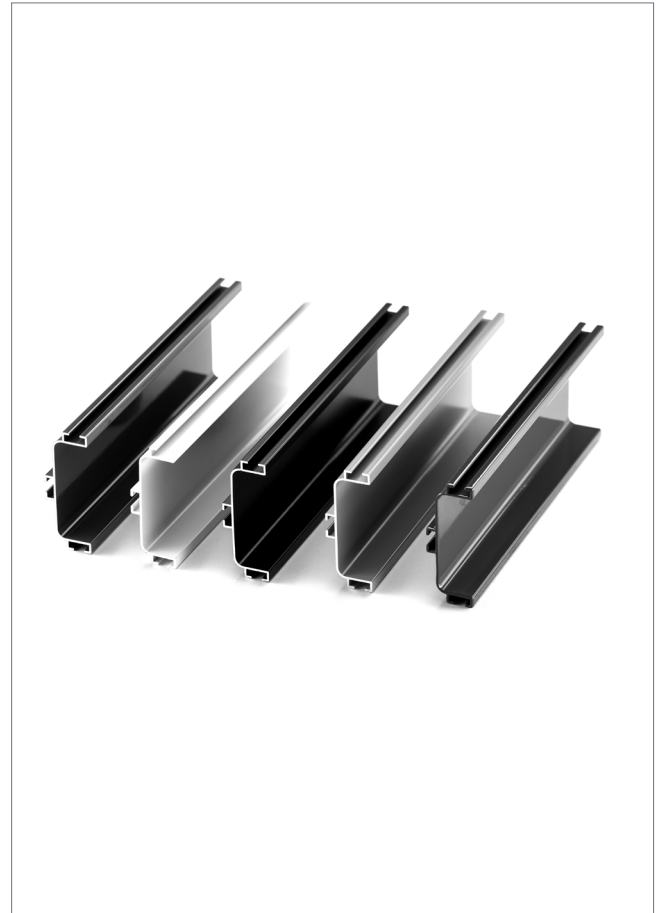
### Commercial Applications - 6005

6005 aluminium extrusions find use in a wide range of applications where general strength is required. These areas include furniture, transport fittings, balconies and ladders.

### About Smiths Profiles

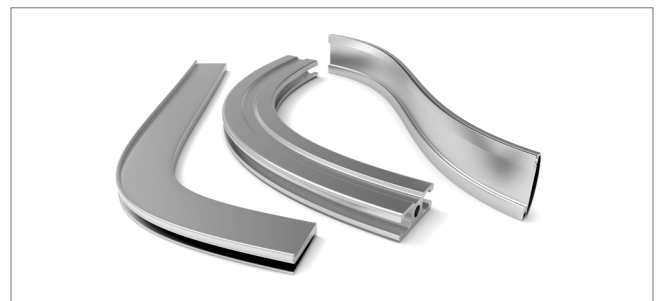
**Smiths Profiles** is based in Cheltenham, Gloucestershire and is backed up by the resources of its parent company, Smiths Metal Centres, which has a network of 13 distribution centres across the UK.

We will supply your extruded product taking into account the design and application required with one single objective - to meet your requirements in the most cost efficient way.



### Commercial Applications - 6005A

6005A aluminium extrusions differ slightly from 6005 alloy due to higher overall impact strength. Alloy extrusions of this type find use in applications such as engineering and structural profiles.



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### Quality Management

**Smiths Profiles** operate an **ISO 9001 approved** quality management system. Our quality management system (QMS) is fully embedded in our industry-leading bespoke IT platform.