

ALUMINIUM PROFILES

Gestión de Compras designs and supplies aluminium profiles for industry and construction applications.

Aluminium profiles are by-products usually for structural purposes. It is possible to distinguish three types of profiles according to their use: construction, architectural and industrial.

- Construction profiles: this profiles offers high bending and torsional stiffness despite their low net weight. Solar panel frames, structures for working platforms and scenarios, etc.
- **Architectural profiles:** For this applications is very important the surface finish. Architectural profiles are used to made frameworks for windows, doors and curtain walls.
- Industrial purposes: On industry aluminium profiles are used to several purposes where is not too important his stiffness or quality surface, but a combination of both along with other characteristics of the material, such as conductivity, provides a wide variety of uses in industry to this by-product. Some examples can be: cable channels systems, heat sinks, air conditioning, cabinets and furniture, etc.





PRODUCTION:

Extrusion is the process most often used for uniform section profiles of aluminum. This method allows to produce high quality products at low cost. Being able to produce slender hollow parts with narrow tolerances and good mechanical properties.





THERMAL TREATMENTS:

Aluminium as most of metals, requires heat treatments to obtain the desired mechanical properties. For aluminium, as to nickel or titanium, the hardening process is by aging. For this reason is important define the heat treatment according to the application. The three more common heat treatments applied to aluminium profiles are:

- **T4:** Tempered from the solution temperature by forced air, natural aging.
- **T5:** Tempering treatment from the extrusion temperature using forced air, then artificial aging. It is the most common heat treatment on aluminum profiles to doors and windows profiles.
- **T6:** Tempered from the solution temperature by water (under 40°C) and artificial aging.



SURFACE TREATMENTS:

The followings are the most common surface treatments of our aluminum profiles, to allow our customers satisfaction for any constructive necessity:

- **Polished,** is the process of creating a smooth and shiny surface by rubbing it or using a chemical action.
- **Anodized,** is a characteristic aluminium coating, this method consist on increase the thickness of the natural oxide layer on the surface of aluminium parts, to obtain greater strength and durability components.
- **Powder coating,** it can produce thicker coatings than conventional liquid coatings without running or sagging.

We also work with another coating methods such as electrophoresis paint or PVDF paint. Below we can see some examples of surface finishes that we provide:









PROFILES AND ASSEMBLY SYSTEMS:

Gestión de Compras offers to his customers different assembly systems to provide the highest flexibility and versatility thanks to modular and multi-functional aluminium profiles.

We have the necessary means to produce a wide range of aluminium profiles. Ours suppliers produce profiles according to standards such as rounded, square or rectangular profiles. And also custom profiles with different alloys, sizes, shapes and assembly systems.

MATERIALS:

The most common used aluminium alloys to produce profiles are alloys from the series 6xxx. The most used to produce aluminium profiles to construction are 6060 and 6063 with heat treatment T5.

Gestión de Compras also produce profiles with other alloys as 5xxx or 7xxx series according to the customer needs.



STANDARD AND CERTIFICATES:

To ensure tolerances for aluminum profiles are correct we usually use the following standards:

- EN 755-9: Aluminium and aluminium alloys Extruded rod/bar, tube and profiles
 Part 9: Profiles, tolerances on dimensions and form.
- **EN 12020-2**: Aluminium and aluminium alloys Extruded precision profiles in alloys EN AW-6060 and EN AW-6063 Part 2: Tolerances on dimensions and form.

In addition, we ensure that our suppliers are holders of the most demanded certificates, such as:

- ISO 9001
- ISO 14001
- OHSAS 18001







CONTACT:

In **Gestión de Compras** work with a wide range of customers from different sectors but have in common the search for products that suit your needs at the best Price and the guaranteed maximum quality. Check with us about any product. We have a qualified staff who will advise you.

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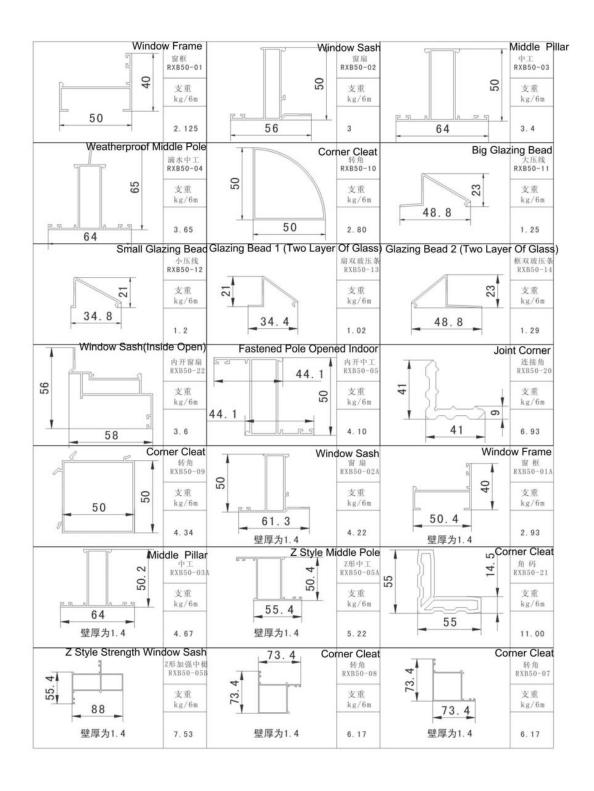
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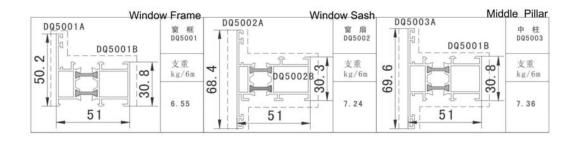
PRODUCTOS:

RXB50 Series Opening Windows (Thickness: 1.0mm as reference)

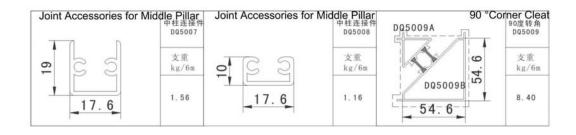


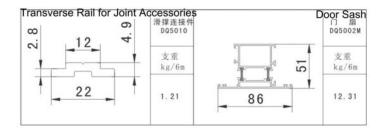


50 Series Thermal Barrier Openning Outside (Thickness 1.4 mm.)



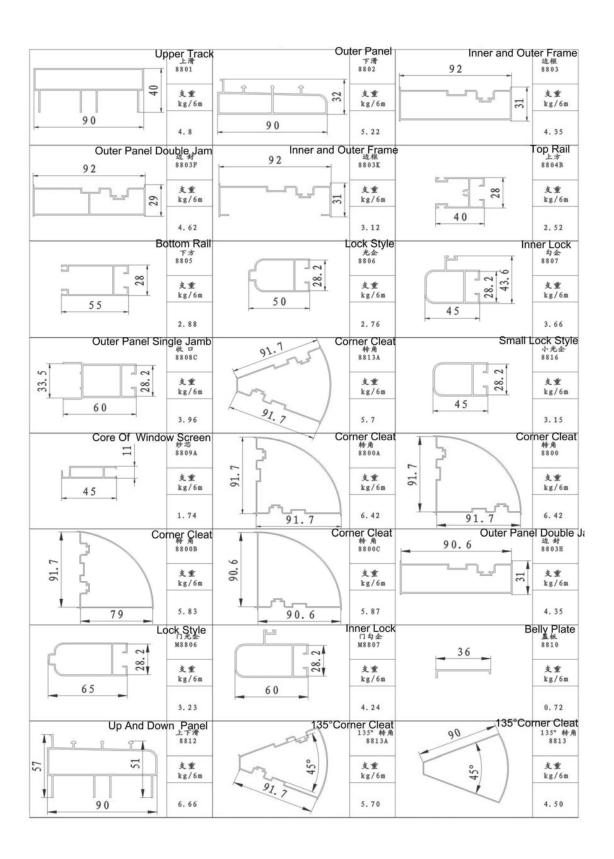






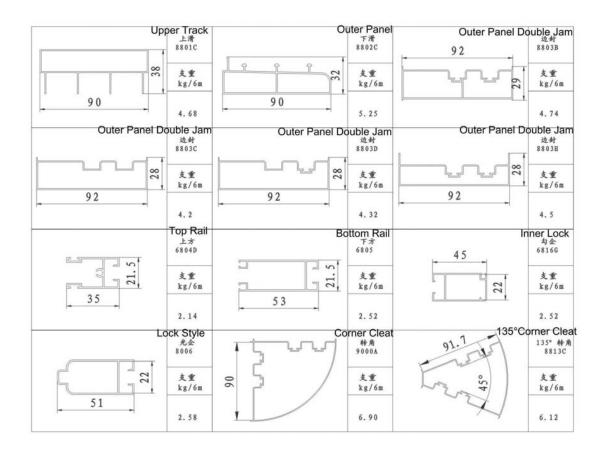


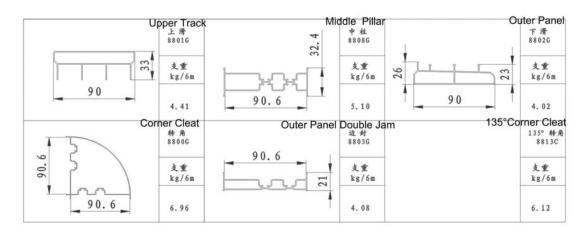
90 Series Sliding Windows with Side Screen (Thickness:1.0mm)





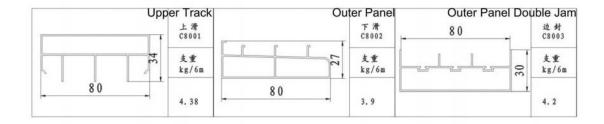
90A Series Sliding Windows with Middle Screen (Thickness: 1.0 mm.)

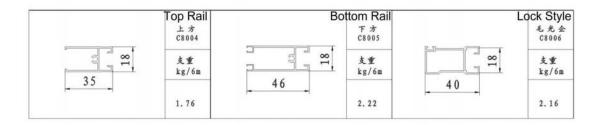


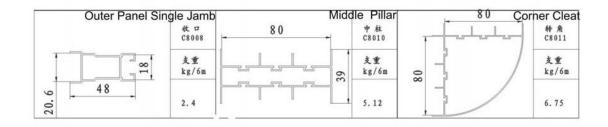




C80 Series Sliding Windows (Thickness: 1.0 mm)

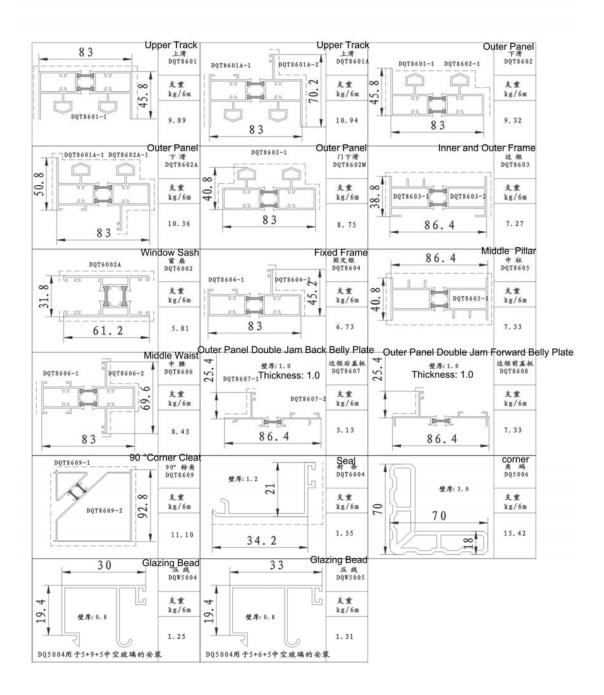






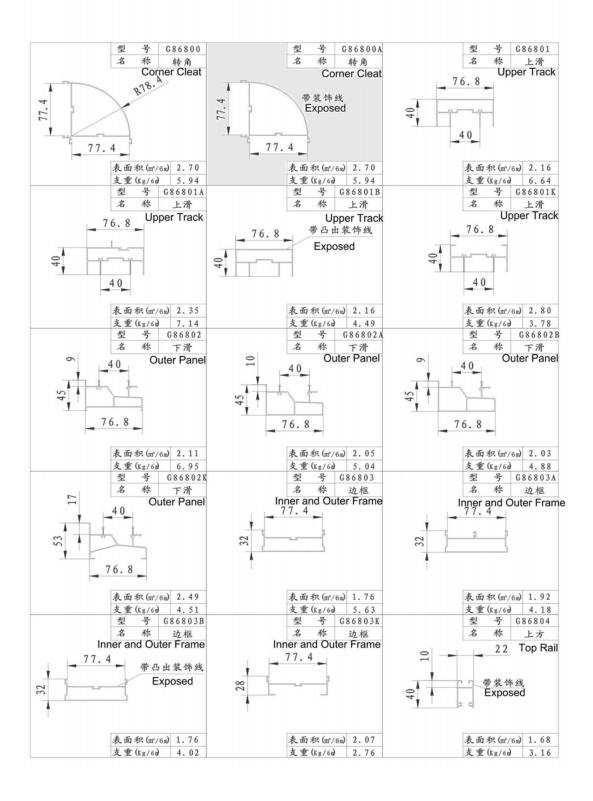


DQT 86 Series Sliging Windows Drawings with Thermal Barrier (Thickness: 1.4 mm.)





G868 Series Sliding Windows





K80 Series Sliding Windows (Thickness: 1.0 mm. as reference)

