



PLASTIC PROFILES

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Quality parameters of extruded profiles enable their use not only as a substitution of conventional materials, but also as independent structural and aesthetical components.

The production of extruded profiles in the company Fatra, a.s. started in 1954. The sixty-year manufacturing history with own development of forming tools and granulates grants us the status of professionals in the production of profiles.

We produce more than 2,000 tons of finished products for more than 400 customers annually. Great portion of profiles are tailor-made. It means that we are able to produce extrusion tools and suggest a suitable type of material based on a drawing and specific application.

We operate several dozens of extrusion lines (extruders), on which we may produce profiles from various materials. The diameter of extruder screws is from 32 to 90 mm. Profiles can be produced from a wide range of polymers. Thanks to material selection, profiles might have quite different features. By combined extrusion of several types of materials (co-extrusion), we achieve even higher end-use properties of profiles.

Our extruded profiles may be supplied with UV stabilization of in a phthalate free version.

## TECHNOLOGY

### EXTRUSION OF PROFILES

Extrusion is a technological operation, in which the polymeric material (polymer with additives) is melted in an extrusion machine under higher temperature and pressure. The plastic melt is continuously extruded through a profiling device (extrusion head) to an empty space. This profile is then cooled down by air or water, dried and cut to required length.

### GRANULATE PRODUCTION

Granulation is a technological operation, in which a compact material – granulate (semi-product for further production process) - is prepared from the mixture of the polymer and its additives. The mixture is melted in the extruder and formed by granulating head into strings. The length of granules is determined by cutter head rotating behind the extrusion head. Granules are then cooled down to avoid their clogging. Granules produced in this manner have their characteristic lenticular or nodular shape.



## PROCESSED MATERIALS

- PVC plasticized,
- PVC non-plasticized,
- Polyolefines,
- TPE,
- ABS,
- PS.

## PRODUCT FINALIZATION

- Cutting to required length,
- Pinking,
- Coating with adhesive tape on both sides,
- Injector marking and imprinting,
- Draining,
- Pruning,
- Printing,
- Winding in continuous lengths.

## ASSORTMENT

### HOSES AND TUBES (MATERIAL – PLASTICIZED PVC)

Wide supply of unsupported hoses in various cross-sections, colours, hardness, and multiple chemical characteristics (dimension series are stated at respective types in the catalogue of profiles at [www.fatra.cz](http://www.fatra.cz)).

#### Transport hoses

- Type 1081 - non-pressure water or air distribution, e.g. air units for aquariums (hardness 70 ShA).
- Type 1125 - non-pressure water or air distribution (hardness 80 ShA).
- Type 1129 - oil or gasoline distribution (hardness 78 ShA).
- Type 1132 - distribution of air with by-products of carbonic acid or aqueous solutions with mineral salts, ammoniac or carbamide (hardness 65 ShA). The hose is not designed for use under pressure.
- Type 1184 - oil or gasoline distribution (hardness 85 ShA).
- Type 1186 – water or air distribution up to the overpressure of 0.25 MPa (hardness 80 ShA).

#### Protective hoses

- Type 1100 – protection and colour coding of insulated leads (hardness 80 ShA, brittle temperature -15°C).
- Type 1105 – special use, e.g. chain protection (hardness 80 ShA, brittle temperature -25°C).

### FLOORING ACCESSORIES

Wide supply of plastic stair edges, plinths, cavettos, and strings for welding to vinyl flooring LINO Fatra and THERMOFIX. Plinths together with corners, joints and end pieces have the same decoration as luxury THERMOFIX floor tiles. The offer also includes skirt-boards for carpets.

### TUBES (MATERIAL - POLYSTYRENE, POLYOLEFINES)

The tubes offered have cross-sections, colours and different characteristics (according to the material used). These profiles serve for non-pressure distribution of gaseous, liquid, and loose media in various temperature intervals. Dimension series are stated at respective types in the catalogue of profiles at [www.fatra.cz](http://www.fatra.cz)

- Type 1244 – HDPE material, temperature interval of use 0 to +40°C.
- Type 1890 – PS material, temperature interval of use 0 to +80°C.
- Type 2594 – LDPE material, temperature interval of use -5 to +40°C.

- Type 2607 – PP material, temperature interval of use 0 to +40°C.

### PLASTIC HANDRAILS ([WWW.PLASTOVA-MADLA.CZ](http://WWW.PLASTOVA-MADLA.CZ))

The offer includes several types of handrails in prefabricated buildings.

### TENNIS LINES FOR CLAY COURTS ([WWW.TENISOVE-LAJNY.CZ](http://WWW.TENISOVE-LAJNY.CZ))

Complete system for laying tennis lines on the clay surface.

### PROFILES FOR FURNITURE INDUSTRY

This profile group is really wide and includes profiles from various materials of different characteristics, e.g. protective striking edges, sealing profiles, connecting profiles, travel profiles...

### PROFILES FOR CONSTRUCTIONS AND GARDENS

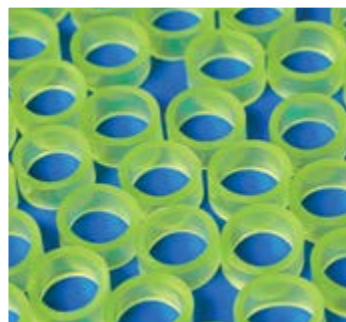
This category includes profiles for optical arrangement of flat roofs FATRAFOL, sealing profiles (door frames, windows, showers, swimming pools...), garden hoses, anti-draught strips, concreting profiles, protective corners...

### PROFILES FOR ELECTRICIANS

Profiles for indication of el. cables, spirals for el. cable ties...

### PROFILES FOR AUTOMOTIVE INDUSTRY

Internet catalogue of profiles / at [www.fatra.cz](http://www.fatra.cz) / is an online catalogue of all profiles manufactured (ca 1800 shapes).





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