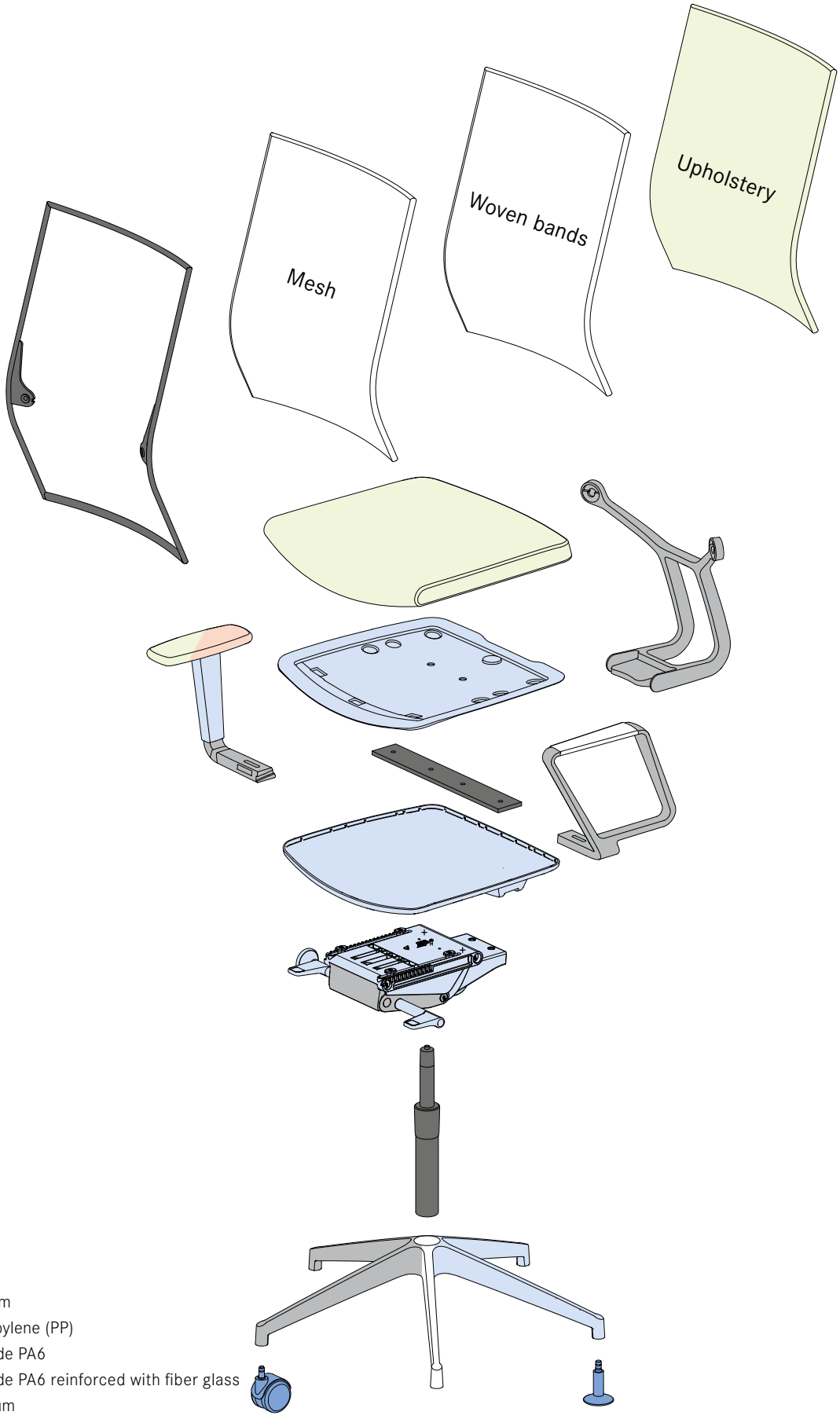
## Material




**Key**

- PUR foam
- Polypropylene (PP)
- Polyamide PA6
- Polyamide PA6 reinforced with fiber glass
- Aluminium
- Steel parts - coated

## Materials

The way in which Diagon is constructed allows the chair to be dismantled at the end of its working life in order to recycle most of the parts. A detailed list of the materials used follows:

**Polyamide PA6 reinforced with 10–50% fiber glass**

Properties: The flash point of the material lies at 400 °C. The ignition temperature lies at 450 °C. Thermal decomposition occurs when the part is subjected to a temperature of 350 °C.

Recycling: Yes – the parts can be recycled.

System parts: sliding seat, mechanism, armrest support, adapter, five-prong base

**Polyamide (PA6 / PA6.6)**

Properties: The flash point of the material lies at 400 °C. The ignition temperature lies at 450 °C. Thermal decomposition occurs when the part is subjected to a temperature of 350 °C.

Recycling: Yes – the parts can be recycled.

System parts: Castors, glides, covering cap, cover, upholstery clip

**Steel parts**

Properties: The parts are of very high strength with regard to breakage, traction, torsion and bending. The level of strength is higher or lower, depending on the quality grade. The parts are corrosion-resistant after electroplating. Thermal decomposition occurs when the part is subjected to a temperature of 1100 °C.

Recycling: Yes – the parts can be recycled.

System parts: Bolts, springs, washers, screws, limitation plate, supporting ring, armrest traverse

**Steel parts – coated (resin)**

Properties: The parts are of very high strength with regard to breakage, traction, torsion and bending. The level of strength is higher or lower, depending on the quality grade. The parts are corrosion-resistant after electroplating. Epoxy resin powder is used to coat the parts. Thermal decomposition occurs when the part is subjected to a temperature of 1100 °C.

Recycling: Yes – the parts can be recycled.

System parts: Handles, round nuts, screws, pressure fitting, hook-shaped headrest support, hinge ring, back frame, column

**Aluminium (pressure die casting) coated and polished**

Properties: The alloy corresponds to the DIN 1706 standard. Aluminium die casting has a high level of strength, is easily shaped and offers several finishing methods. There are different polishing levels as well as different epoxy resin powder coatings in an extensive range of colours.

Recycling: Yes – the parts can be recycled.

System parts: Mechanism, ring-shaped armrest, back support, five-prong base

**PUR foam**

Properties: All PUR foam parts (polyurethane) in versions made of cold cured foam or integral foam are produced without any CFCs and are created by means of a polyaddition reaction of isocyanate and polyether polyol. This results in cellular material with elastic properties. Thermal decomposition takes place at a temperature of over 180 °C, and the ignition temperature is between 315 °C and 370 °C.

Recycling: Yes, the parts can be sent for either materials or thermal recycling.

System parts: Armrest cap, seat foam, Cellasto components

**Polyoxymethylene (POM)**

Properties: The flash point of the material lies at 370 °C. The ignition temperature lies at 400 °C. Thermal decomposition occurs when the part is subjected to a temperature of 220 °C.

Recycling: Yes – the parts can be recycled.

System parts: Slot nut, guide unit, collar, adjustment plate, twist grip, joint piece

**Polypropylene (PP)**

Properties: The flash point is not applicable. The ignition temperature lies at 330 °C. Thermal decomposition occurs when the part is subjected to a temperature of 300–320 °C.

Recycling: Yes – the parts can be recycled.

System parts: Armrest cap, ring top, upholstery support

**Cover materials**

Properties: Detailed information on the composition of materials can be found on the respective fabric and leather cards.

Recycling: Yes – some of the unblended cover fabrics made from natural fibers can be returned to the suppliers. There, the covers are shredded and reused to produce new fabric. Cover fabrics made from synthetic materials can be recycled. The methods used to tan and dye the leather covers allow them to be composted without problem.

System parts: Cloth and leather covers, woven polyester

**Additional information – connections**

Diagon is made from a large number of single parts. The parts are all mechanically joined (= can be dismounted, detached). These plug-in and screw connections allow the different types of material to be separated when the chair is dismantled.

Exception: The PU soft foam padding of the armrests is foamed together with its shell.

**Additional information – material identification**

The larger parts made of Polypropylene (PP), Polyamide (PA), Polyoxymethylene (POM) and Acrylonitrile-Butadiene-Styrene (ABS) are marked with the respective material identification code for recycling.

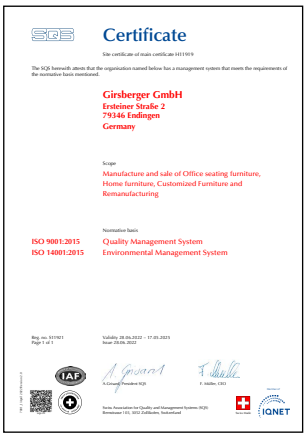
# Certificates

## Quality

Girsberger has extremely high quality assurance standards and is certified according to DIN EN ISO 9001.

## Environment

Since 2007, Girsberger has operated an environmental management system certified to the EN ISO 14001 standard, which obliges us to continually improve our environmental performance. All materials used for the Diagon model series can be sorted into material types and recycled.


Certificate

Girsberger GmbH
Ersteiner Straße 2
79346 Endingen
Germany

Scope
Manufacture and sale of Office seating furniture, Home furniture, Customized Furniture and Remanufacturing

Normative basis
ISO 9001:2015 Quality Management System
ISO 14001:2015 Environmental Management System


Certificate

Girsberger AG
Bernstrasse 78
4922 Bützberg
Switzerland

Scope
Manufacture and sale of Office seating furniture, Home furniture, Customized Furniture, Remanufacturing and wood trade

Normative basis
ISO 9001:2015 Quality Management System
ISO 14001:2015 Environmental Management System

## Functionality and safety

The design of the products in the Diagon model series conforms with the following standards:
EN 1335
BS 5459
NPR 1813

The safety of the Diagon product series has been tested and confirmed by TÜV LGA with the issue of the GS («safety approved») certificate.

Moreover, TÜV LGA has issued its «ergonomics approved» and LGA «tested for hazardous substances» certificates for the Diagon.

The «Quality Office» certificate from the BSO Verband (German association of office, seating and commercial furniture companies) and the Verwaltungs-Berufsgenossenschaft (German provider of statutory accident insurance) attests to the above-average quality of the Diagon model series.


Zertifikat Certificate

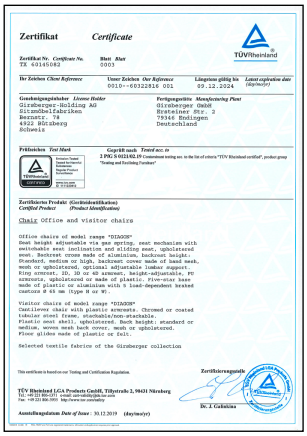
Drehstuhl Office chair

Übersetzung/Translation


Zertifikat Certificate

Übersetzung/Translation

QUALITY OFFICE


Zertifikat Certificate

Chair Office and visitor chairs

## Design

In 2013, Girsberger won the red dot award for the design of the Diagon chair.

reddot design award

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