

Eames Fiberglass Chairs

Charles & Ray Eames, 1950



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Vitra manufactures the Fiberglass Side Chairs and Armchairs by Charles and Ray Eames in several of the early original colours. The fibreglass shells are characterised by their lively visual appeal, which is much-prized today.

Fibreglass owes its charm to an irregular surface, appearing almost like a natural material thanks to its clearly visible fibres. For enhanced comfort, Eames Fiberglass Chairs are also available with an optional seat cushion.



Eames Fiberglass Chairs

Charles & Ray Eames, 1950

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In 1948, Charles and Ray Eames participated in the 'International Competition for Low-Cost Furniture Design' organised by the New York Museum of Modern Art, entering a chair with a seat shell moulded to fit the contours of the human body along with a concept for a variety of bases. Their design won second prize. However, the metal shell proved too complex and expensive to achieve successful mass production.

The couple's search for alternative materials eventually led them to glass-fibre reinforced polyester resin, which until then had been primarily restricted to military applications such as aircraft radomes and cockpit covers. The Eameses recognised and fully exploited the advantages of fibreglass: mouldability, rigidity and suitability for industrial manufacturing methods. With this material, which was previously unknown in the furniture industry, they successfully

developed the moulded seat shells for mass production: the Fiberglass Chair was born. Its organically shaped, one-piece shell proved to be a much-admired innovation at a time when chairs typically consisted of a seat and backrest. Fibreglass offered the added advantage of pleasant tactile qualities and a perfectly moulded form for optimal comfort.

Charles and Ray developed a striking series of individual bases that could be freely combined with these shells – such as the Eiffel Tower version made of welded steel wire or the wooden base reinforced with metal struts. This combination of revolutionary seat shells and innovative bases gave the chair family the iconic traits that are still instantly recognisable today.

Charles and Ray attached great importance to the use of colours – as fibreglass had previously only existed in a colourless version. They consequently spent many days in the factory, mixing hues for countless prototypes in their efforts to create colours that best accentuated the organic shape of both shell forms – with and without armrests – in a range of coordinated shades. The first colours developed by the Eameses were greige (a mix of grey and beige), elephant hide grey (to which Charles was referring when he said 'What I really want is a black with feeling') and the slightly transparent tone parchment. Colours such as sea foam green, yellow, ochre and red followed shortly after in the very early days of production.

The Fiberglass Chairs were launched on the market in 1950, introducing a new furniture typology that has since become widespread: the multifunctional chair whose shell can be combined with a variety of bases to serve different purposes. In response to the enormous popularity of the chair, the choice of bases and colours was subsequently expanded. Over the course of the following decades, the Fiberglass Chairs became one of the best known furniture designs of the twentieth century.

The Eames Fiberglass Chairs are available alongside the Eames Plastic Chairs with polypropylene shells. Together the two chair groups form an extensive family, enabling countless variations of the classic Eames design, with a suitable version for almost every taste and purpose.

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Eames Fiberglass Chair

Overview of models

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Rod Base

Wood Base



Eames Fiberglass Side Chair
DSW



La Fonda Base



Eames Fiberglass Side Chair
DSL



Eames Fiberglass Armchair
DAW

X-Tube Base







Dining at home – or eating out

The Fiberglass Chairs are exceptionally robust and durable. This classic design is not only ideally suited for home dining rooms, but can also be used in upscale restaurants, canteens and cafeterias.

- **Seat shell:** dyed-through, glass-fibre reinforced polyester (fibreglass). Just like the earliest models, today's fibreglass shells are also slightly transparent in some colours.

Fiberglass Chairs available with seat cushion (screwed to the shell).

Materials DAW

- **Base:** non-stackable wooden base in various shades of maple or honey-toned ash, stained and lacquered finish. Steel rod cross struts in basic dark. (DAW = Dining Height Armchair Wood Base)

Materials DSW

- **Base:** non-stackable wooden base in various shades of maple or honey-toned ash, stained and lacquered finish. Steel rod cross struts in basic dark. (DSW = Dining Height Side Chair Wood Base)

Materials DAR

- **Base:** non-stackable four-legged wire base with cross struts. (DAR = Dining Height Armchair Rod Base)

Materials DSL

- **Base:** La Fonda base in polished die-cast aluminium. (DSL = Dining Height Side Chair La Fonda Base)

Materials DSR

- **Base:** non-stacking four-legged wire base with cross struts. (DSR = Dining Height Side Chair Rod Base)

Materials DAX

- **Base:** non-stacking four-legged tubular steel base. (DAX = Dining Height Armchair X-Base)

Materials DSX

- **Base:** non-stacking four-legged tubular steel base. (DSX = Dining Height Side Chair X-Base)

Materials DAL

- **Base:** La Fonda base in die-cast aluminium, polished or powder-coated finish. (DAL = Dining Height Armchair La Fonda Base)



DAW

DSW

DAR

DSL

DSX

DAL

EAMES FIBERGLASS CHAIR







Living

The iconic RAR (Rocking Armchair Rod Base) and LAR (Lounge Height Armchair Rod Base) in fibreglass are compact but expressive lounge chairs.

• **Seat shell:** dyed-through, glass-fibre reinforced polyester (fibreglass). Just like the earliest models, today's fibreglass shells are also slightly transparent in some colours. Fiberglass Chairs available with seat cushion (screwed to the shell).

Materials RAR

- **RAR base:** wire base with cross struts, solid maple runners. (RAR = Rocking Armchair Rod Base)
- **Origin of wood:** maple (*Acer platanoides*) from Western Europe and/or Poland.

Materials LAR

- **LAR base:** wire base with cross struts, chrome-plated or powder-coated finish. Seat height 256 mm. (LAR = Lounge Height Armchair, Rod Base)

Materials LSR

- **LSR Base:** wire base with cross struts, chrome-plated or powder-coated finish. Seat height 260 mm. (LSR = Lounge Height Side Chair, Rod Base)



Eames Fiberglass Stool High & Stool Medium



The Fiberglass Chairs by Charles and Ray Eames were the very first industrially made plastic chairs. Their organically shaped seat shells are available with a variety of different bases. The four-legged base of the Eames Fiberglass Stool comes in a choice of two heights: medium for standard kitchen counters and high for standing-height tables. The base is equipped with a footrest and has a black powder-coated or chrome-plated finish.

Materials Fiberglass Stool High

- **Base:** tubular steel, chrome-plated or powder-coated, non-stackable. Height of seat front edge: 820 mm; ideal for use at counters and tables 110 to 115 cm in height (without seat cushion). The powder-coated version may show signs of abrasion on the footrest due to the anti-slip coating.

Materials Fiberglass Stool Medium

- **Base:** tubular steel, chrome-plated or powder-coated, non-stackable. Height of seat front edge: 700 mm; ideal for use at counters and tables 95 to 100 cm in height (without seat cushion). The powder-coated version may show signs of abrasion on the footrest due to the anti-slip coating.





Eames Fiberglass Chair with seat cushion

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Seat cushions

The Eames Fiberglass Chairs are offered with an optional seat cushion, which is securely attached to the shell with screws. Upholstery of recyclable polyurethane foam 'V-Foam'. The cushions can be covered in Checker fabric or in the many different colours of Hopsak.



Suggested colour combinations

Countless colour combinations are available for the Eames Fiberglass Chair, with shells and seat cushions offered in a wide array of hues. Below are some suggestions for colours that harmonise particularly well with one other.

Seat cushions

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Combinations with Eames Parchment

For seat shells: Side Chair und Armchair.



Combinations with Eames Sea Foam Green

For seat shell: Side Chair and Armchair.



Seat cushions

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Combinations with
Eames Raw Umber

For seat shells: Side Chair und Armchair.



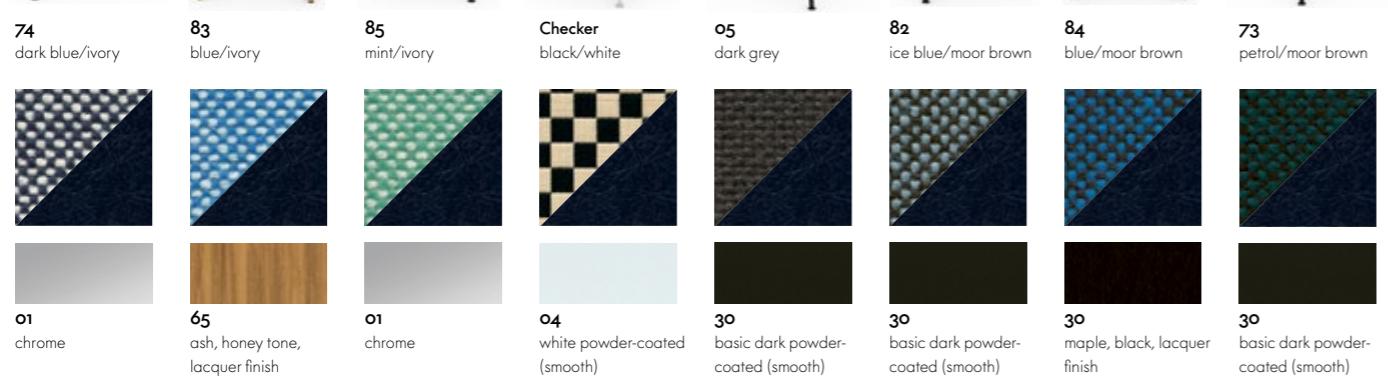
Combinations with
Eames Elephant Hide Grey

For seat shells: Side Chair und Armchair.



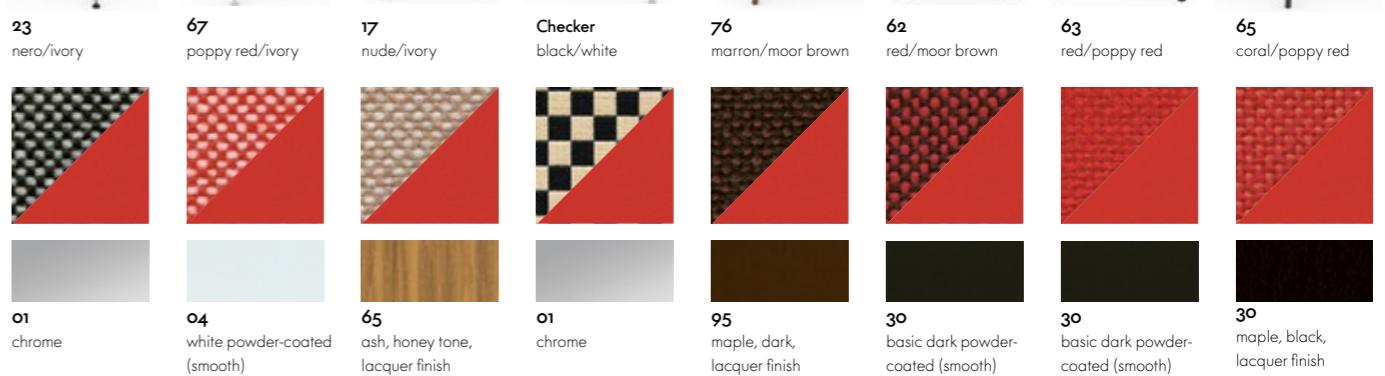
Combinations with
Eames Navy Blue

For seat shell: Side Chair

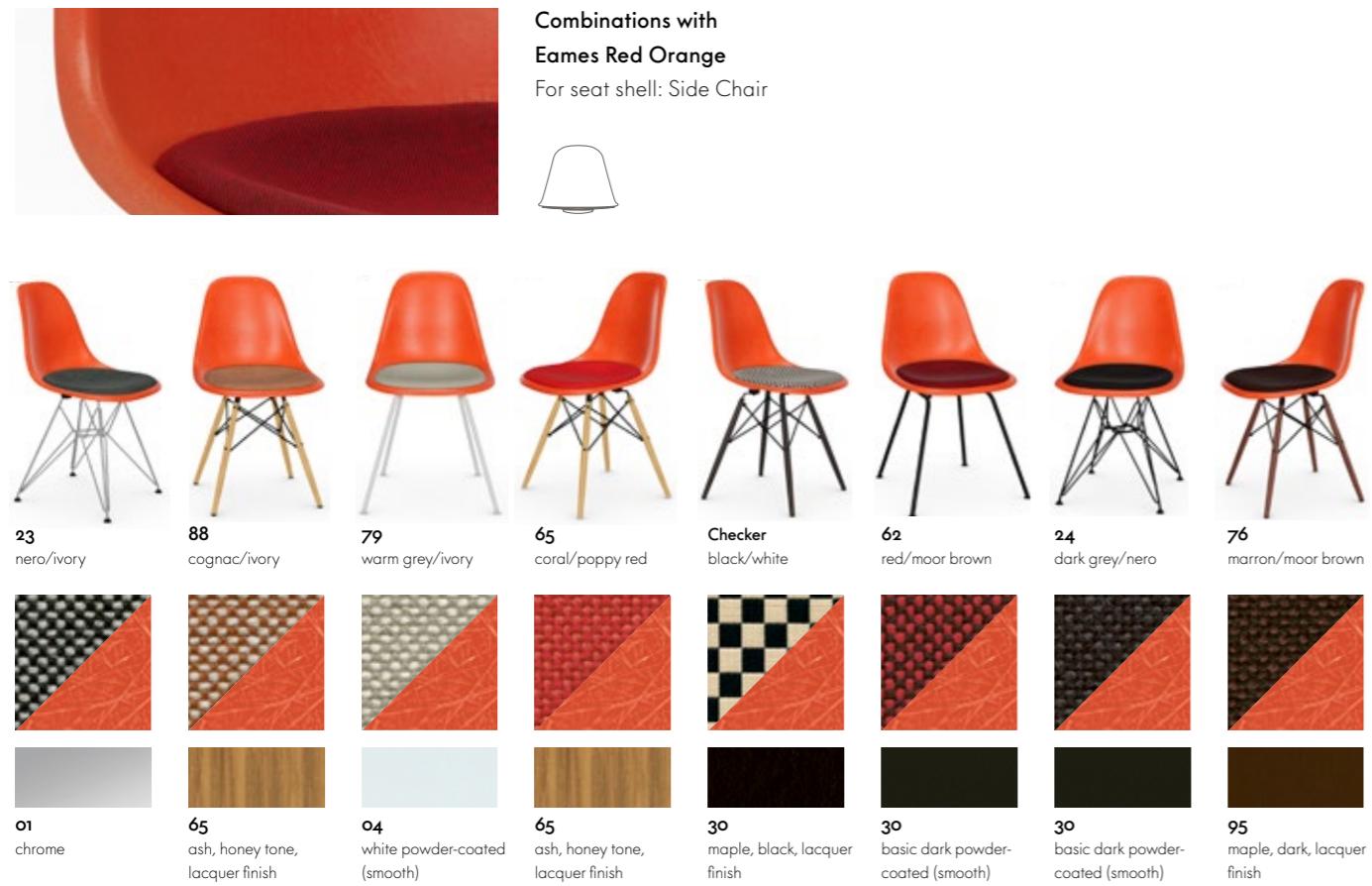


Combinations with
Eames Classic Red

For seat shell: Side Chair



Seat cushions



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Loose seat cushions: Soft Seats



Soft Seats

Available in three shapes, the Soft Seats by Vitra are made of a recyclable thermopressed fleece and provide soft comfort on unupholstered chairs - including outdoors with the Soft Seats Outdoor version.

Indoor:

2 mm thick recyclable polyurethane foam 'V-Foam'. Available in 11 cover fabrics, 2 leather options and numerous colours.

Outdoor:

Available in Simmons cover fabric with a choice of 3 colours.

Please use Soft Seat type A for the armchair model and type B for the side chair.

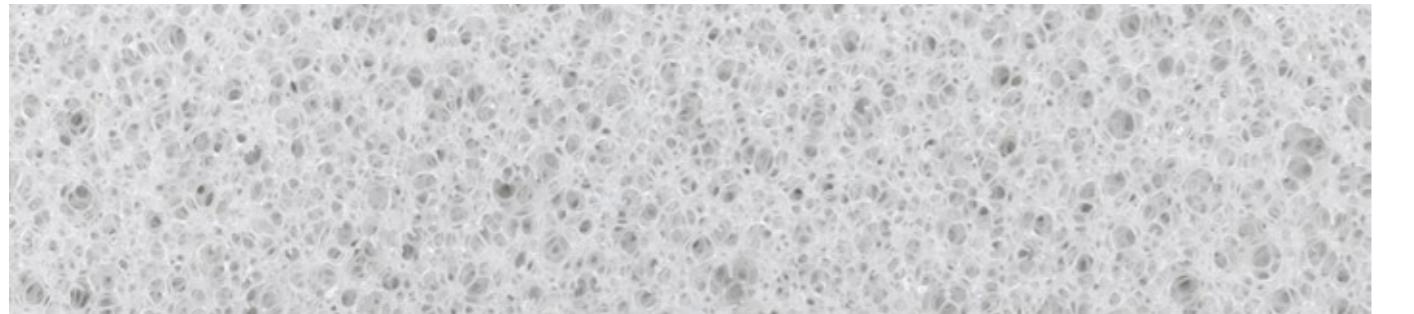
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Outdoor use: suitable for utilisation outdoors on a temporary or seasonal basis, following care instructions. After prolonged exposure to the elements, clean and store away in a cool, dry place to ensure lasting use and avoid any deterioration in appearance.

- Note:** always with non-slip fabric on reverse side.



V-Foam - meltable PU foam



Developed jointly by Vitra and BASF, V-Foam is the world's first economically recyclable polyurethane foam.

Standard polyurethane foam (PU foam) is derived from fossil fuels and utilised extensively worldwide. Its recycling process is very energy-intensive and uneconomical.

V-Foam, on the other hand, can be melted, reprocessed and returned to the material cycle in its entirety for use in new products. Vitra will gradually incorporate V-Foam for all its upholstered furniture containing moulded foam from 2025.

Due to British fire safety regulations, V-Foam is not used in the UK. Fire retardants would have to be added to the formula, which would make it impossible to recycle V-Foam separately.

Recycled aluminium



Alongside steel, aluminium is the metal most frequently used in Vitra's product portfolio. The production of recycled aluminium consumes only around 5% of the energy required for the extraction and processing of primary aluminium. All Vitra products that contain aluminium therefore include a substantial proportion of recycled material, which is being continually increased wherever technically feasible. The La Fonda base, for instance, contains 95% recycled aluminium. More than 90% of Vitra's aluminium components are sourced from suppliers in Europe.





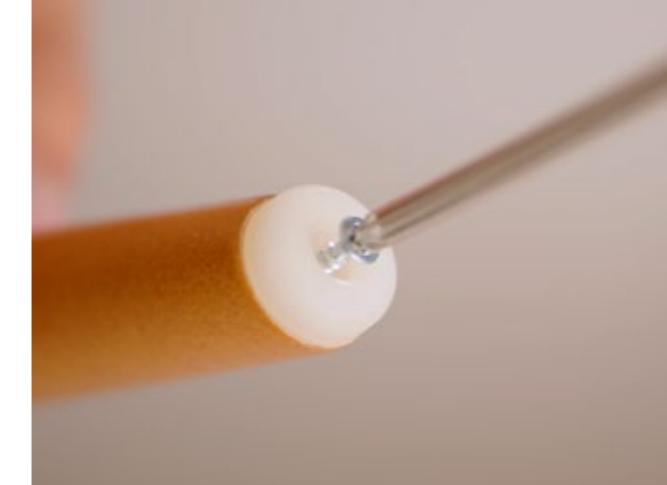
'Vitra's greatest contribution to sustainability is its products with an above-average service life, which omit everything superfluous. Our roots in modern design would allow nothing else.'

Nora Fehlbaum, CEO of Vitra

The close and long-standing collaboration with Charles and Ray Eames has shaped Vitra in significant ways. Carrying on the tradition of thinking espoused by the designer couple, the company places emphasis on the durability and longevity of products as part of its contribution to sustainable development, and avoids stylistic trends. This is most clearly exemplified by the classic designs in Vitra's portfolio, whose lasting functionality and timeless aesthetic keep them up to date and in active use for decades. They retain their value on the secondary market, changing owners and perhaps even ending up in a collection.

To ensure that Vitra products remain in circulation for as long as possible, they are designed in a manner that facilitates their reuse and recycling. Repairs, returns and extended guarantees support their longevity. And used Vitra products are refurbished and put back into circulation in Vitra Circle Stores.

Selected spare parts that can be easily replaced are available in our online shop. These include castors and glides for a broad number of our task chairs and chairs, and suited to different floor types. The spare parts finder at vitra.com/spareparts allows effortless identification of the correct parts for your product. The replacement process is explained step by step in a short video.



For all other replacement parts, please use [Find Vitra](#) to locate an authorized dealer near you or contact us directly using the contact form. Please be aware that for safety reasons we cannot offer all available spare parts for direct purchase and delivery to end customers, as some require replacement by trained professionals.



Take-Back-Programme

Vitra launched a Take-Back-Programme in 2019 for its family of Eames Shell Chairs: Eames Fiberglass Chairs, Eames Plastic Chairs and Eames Wire Chairs that are no longer in use can be returned to Vitra – worldwide, regardless of when they were produced. The service is intended for customers who cannot or do not wish to resell or dispose of their product themselves. The returned chairs may consist of still usable or repairable products that can be resold, or heavily damaged products that require correct recycling. If you have any products you wish to return via the Vitra Take-Back-Programme, please write to: circular@vitra.com

Vitra Product Warranty

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Vitra products are designed and constructed to last as long as possible and this quality promise guides every decision in Vitra's product development and manufacturing processes.

Vitra guarantees the longevity of selected products with a limited manufacturer warranty of ten- to thirty-years as per warranty terms listed below. The Vitra Product Warranty is part of the company's commitment to sustainability.

The date of purchase may not be earlier than 1 January 2024

Product was purchased from Vitra or its authorised dealers/retailers by a private customer*

Product is listed in section 1.b of the full warranty terms and conditions

Registration within six months of purchase at [my.vitra.com](https://www.vitra.com)

*With the exception of Eames Aluminium Group & Soft Pad Group products, which can be registered by private and business end-customers.

Vitra Circle Stores

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With the Circle Stores, Vitra puts sustainable management principles into practice by giving its products a second life. Since mid-October 2023, a new Circle Store has been located on the Vitra Campus in Weil am Rhein, joining existing sites in Brussels and Amsterdam. Find all Vitra Circle Stores: www.vitracircle.com.



When the pertinent legal and conceptual conditions are met, one can speak of a design original.

This term means that a design – independent of its production date – was fabricated by the authorised manufacturer in the true spirit of the designer. These factors guarantee its authenticity.

The status of an original is determined by the relationship between the designer (or rightful heirs) and the manufacturer of the designer's products. There is not only a legal component to this relationship, but also an immaterial one based on shared ideals and collaboration.

For any product to be designated as an 'original', the designer must have given the manufacturer the authorisation to produce it. Anyone who produces a design without legal permission is appropriating property that belongs to someone else. This applies not only to the manufacturer, but also to the consumer who buys an unlicensed product.

Equally important is the creative connection between the designer and manufacturer. It is evident in their close cooperation at every step of the production process. Because the plagiarist does not have this relationship, there is always uncertainty about the degree to which the copy deviates from the original idea, whether for reasons of ignorance, carelessness or cost reduction.

Rolf Fehlbaum,
Chairman Emeritus, Vitra

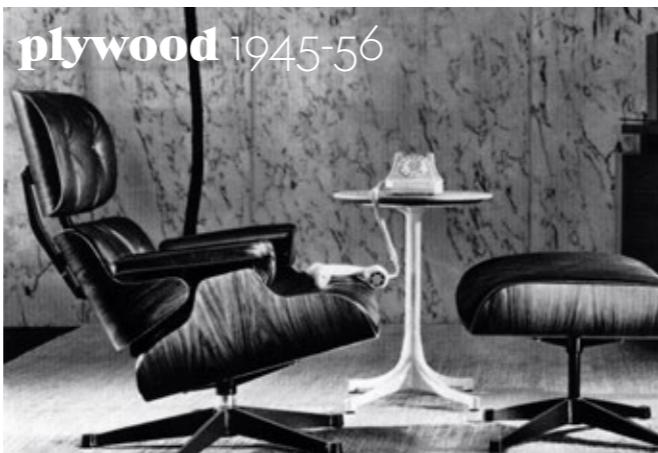


plastic 1948-61

wire 1951



plywood 1945-56



Authenticity

In close cooperation with the Eames Office, which represents Charles & Ray Eames' family, Vitra guarantees that each Eames Fiberglass Chair gives the exact design experience of comfort, aesthetics and quality that Charles & Ray Eames intended for the user – a feeling that only the original can offer.

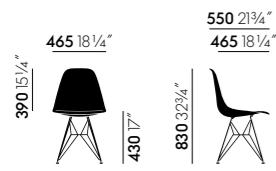
Eames Demetrios



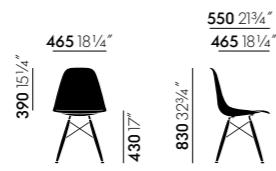
fiberglass 1948-61

Dimensions

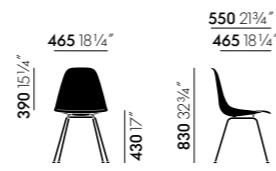
(in accordance with EN 1335-1:2000)



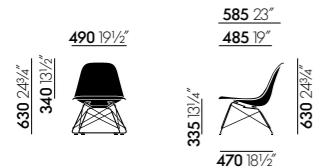
Eames Fiberglass Side Chair DSR



Eames Fiberglass Side Chair DSW



Eames Fiberglass Side Chair DSX



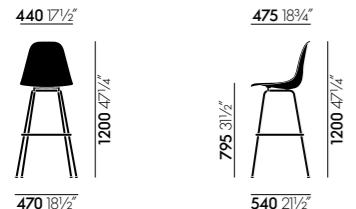
Eames Fiberglass Side Chair LSR



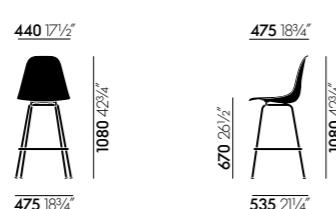
Eames Fiberglass Side Chair DSL



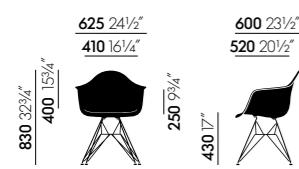
Eames Fiberglass Side Chair DAL



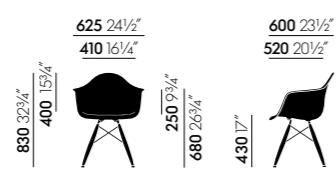
Eames Fiberglass Stool High



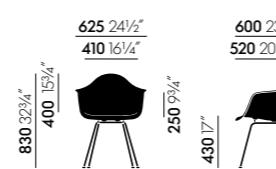
Eames Fiberglass Stool Medium



Eames Fiberglass Armchair DAR



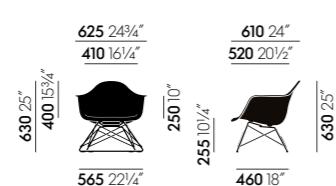
Eames Fiberglass Armchair DAW



Eames Fiberglass Armchair DAX



Eames Fiberglass Armchair RAR



Eames Fiberglass Armchair LAR

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Colours and materials

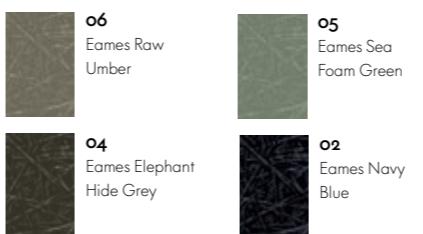
Fibreglass

Fibreglass is a very robust and durable fibre composite made of polyester resin and glass fibres. The glass fibres visible in the plastic lend it a lively surface texture with a lustrous reflection and pleasant tactile qualities. This so-called 'fibreprint' may not only vary between different products but can also be a distinguishing characteristic of individual models of the same product. These tiny irregularities and distinctive features are what make each object a unique piece.

When manufacturing fibreglass, Vitra uses materials from Central Europe to avoid long transport distances.



05
Eames Sea Foam Green



Seat shell (Eames Fiberglass Side Chair)



Seat shell (Eames Fiberglass Armchair)

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Cover materials

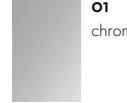
Hopsak Medium use, F60

Metal

Vitra most frequently uses aluminium and steel for metal components. Since 94% less energy is required to produce recycled aluminium in comparison to primary aluminium, Vitra utilises aluminium consisting of 95% recycled material whenever possible. Depending on the product, metal surfaces are either powder-coated, chrome-plated, polished, galvanised, lacquered or blasted. A smooth or textured powder-coated finish provides colour and surface protection.

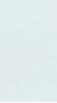
01

chrome



01

chrome



04

white powder-coated (smooth)



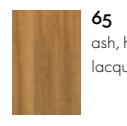
30

basic dark powder-coated (smooth)

Base DSR, DSX, LSR
Base DAR, DAX, LAR
Base DAL, DSL
Wire base RAR



65
ash, honey tone, lacquer finish



65
ash, honey tone, lacquer finish



02
maple, golden, lacquer finish

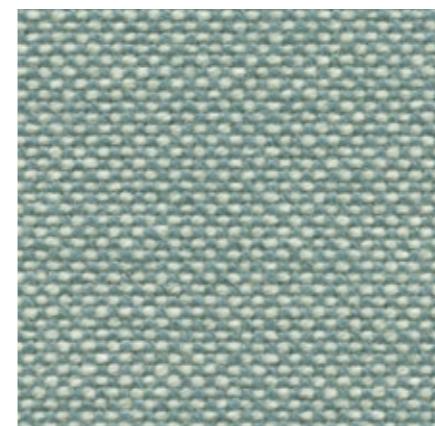


95
maple, dark, lacquer finish



30
maple, black, lacquer finish

Base DAW



Hopsak is an expressive, flat plain-weave fabric made of polyamide. The duotone colours offer a multitude of design possibilities in high-contrast, brightly hued or subtle combinations of warp and weft threads. Highly durable and robust, Hopsak can be used in private interiors as well as public areas.

Hopsak is available in 35 colours.

Material

100% polyamide

Weight

550 g/m² (16.2 oz/y²)

Width

127 cm +/- 2 cm (50")

Abrasion resistance

200,000 Martindale

Fastness to light

Type 6

Pilling

Grade 4-5

Fastness to rubbing

Grade 4-5 dry

and wet



Checker Residential use, F200



The soft double weave fabric, with a high percentage of cotton, demonstrates exceptional purity of colour and its geometric pattern lends a striking note to any environment.

Material	23% polyester, 77% cotton
Weight	467 g/m ² (13.8 oz/y ²)
Width	140 cm (55")
Abrasion resistance	20,000 Martindale
Fastness to light	Type 6
Pilling	Grade 4-5
Fastness to rubbing	Grade 4-5 dry and wet

