Technical Detail

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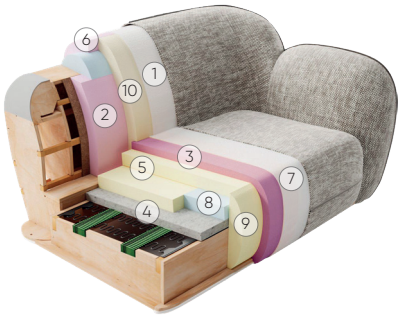
#checklist

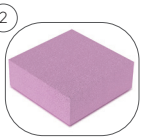
Icona

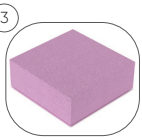
Time to explore the technical specifications of Icona.



1

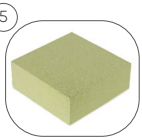
90 gr/m²
Fiber

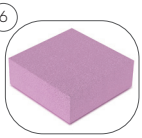
2

5 cm 25 kg/m³
Feather Foam

3

5,5 cm 35 kg/m³
High Perla

4

3 cm 60 kg/m³
Felt

5

CNC-Cut
35 kg/m³
HR-ALTA Foam

6

5 cm 25 kg/m³
Feather Foam

7

200 gr/m²
Fiber

8

5 cm 45 kg/m³
HLB Foam

9

CNC-Cut
35 kg/m³
HR-ALTA Foam

10

5 cm 25 kg/m³
HYPER

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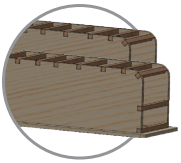
CONSTRUCTION

Plywood and beech wood are used in the framework as the main construction of the sofa.



(Image 1-1)

Plywood, a high-strength (36 N/mm2) layered wood material produced in accordance with EN 636 standards, is obtained by aligning wood layers and fibers of around 1.5 mm thickness vertically and pressing with resin followed by cutting in CNC machinery with high precision. (Image 1-1)

Prime quality beech wood boards of 2x2 cm, 5x2 cm, and 7x2.5 cm, kiln-dried and cured for a minimum of 1 year with a relative humidity of 10% or lower are used.

(Image 1-2)

MDF (Medium Density Fiberboard) of 3 mm thickness, a layered material increasing strength is assembled at the back and on the sides of our products to build a box construction.

D3-norm water-based PVAc wood glue with high adhesion strength in accordance with EN 204 standards is used in all joints of wooden components in the framework.

To improve strength and durability, components of the framework are joined by a notched joining system. (Image 1-1) (Image 1-2)

(Image 1-3)

Elastic columns with a maximum interval of 4 cm with an elasticity of 60% and tensile strength of 350 kg as obtained by weaving polyester threads are used around zigzag springs, manufactured in a special heat treatment furnace to provide extra stiffness, and a total of 105 triple rubber fibers with a width by 7 cm to ensure ergonomics and comfort in seating. (Image 1-3)

Plastic materials of various dimensions are used in corners and edges in the framework to reduce rigidity and improve aesthetics after upholstering.

FOAM

In order to maximize comfort and durability in the seat, backrest, and armrests, a layered composite foam application is used.

In the seatings, 60 kg/m3 (density) 3 cm thick felt made of 100% recycled polyester material is applied to support the bottom layer.

10 cm CNC cut sponge of 35 kg/m3 (density) HR-ALTA (High Resilience) quality is used as the main seating sponge.

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(Image 2-1)

In the top layer, 5,5 cm CNC cut flexible and soft sponge of 35 kg/m3 (density) Highperla quality is used as comfort sponge.

In the seatings, 100% polyester 200 gr/m2 first-quality laminated fibre produced as nonwoven by thermal and chemical bonding method is used as the top layer to cover the whole piece.

The upper part of the back is supported with 8 cm thick CNC-cut foam of 26 kg/m3 (density) HR-ALTA (High Resilience) quality.

The inner back section of the backrest is covered with 5 cm thick soft foam of 25 kg/m3 (density).

The inner part of the backrest is covered with 5 cm thick soft foam of 25 kg/m3 (density) HYPER quality for comfort.

On the back, 100% polyester 90 gr/m2 first-quality non-laminated fibre produced as nonwoven by thermal and chemical bonding method is used as the top layer to cover the whole piece.

In order to prevent the front side of the seats from softening and collapsing as a result of intensive use and to ensure that the front facade fabric looks more aesthetic, 45 (kg / m3) HLB barrier sponge with a thickness of 5 cm and a width of 15 cm is applied in the front part of the seatings.

FITTINGS & LOAD-BEARING SYSTEMS

The Linea Bonbon model uses the DSS32 back mechanism, which allows the seat to extend by 26 cm, adding the function of a deeper seat and the ability to convert into a bed.

Our mechanism is produced using 4 mm thick DKP, HRP, and 6220 metal sheet materials, which are shaped with high precision on CNC laser machines and coated with textured electrostatic powder paint.

APPLICATIONS FOR STRENGTH AND DURABILITY

During R&D activities, the products are subject to seating tests for 30,000 seating instances on average. Foam with thickness increased by 30% to 50% and density increased by 20% to 30% is used in the seat cushion of the conventional products of 100 kg.

Recycled material (felt) is used to replace 12% of foam material. Eco-friendly materials with reduced carbon footprint are used.

More than 18% of the product consists of wooden material.

Materials with durability increased by 50% to 100% with a wider surface area and a higher load-bearing capacity are used as fittings.

Factors such as structure, construction, production, shipment, and assembly at home, considering even children jumping on the product, have been thought about carefully throughout the design and production stages up to the finished product.

A stuffing mixture and densely woven linings are used for the back cushion and pillows. The existing stuffing mixture is more durable and comfortable than other conventional fillings.

FABRIC & SEAMS

Fabrics of the manufacturers carrying out production processes in line with international quality standards are used in our sofas.

Each lot of our fabrics is subject to all required physical and chemical testing following the applicable standards, especially including EN ISO 12947-2, EN ISO 13936-2, EN ISO 13937-3, EN ISO 13934-1, EN ISO 14704-1 standards, and fabrics with high Martindale wear (50.000 cycles and above), pile loss (10,000 cycles and above), pilling (5 and above), tear strength (40 N and above) are used.

Average fabric weights are 725 g/m2 in the nubuck series, 450 g/m2 in the woven series, and 325 g/m2 in the velvet series (according to EN 12127).

Number 30, 80 tex low-flexibility, high-strength (5200 cN) lubricated continuous filament polyester threads are used as assembly seam.

Number 20, 135 tex, high-strength (9500 cN) nylon 6.6 threads are used as blind stitches used to improve strength and for aesthetic purposes.

Our sewing threads are certified by Oeko-Tex Standard 100.

To maximize sewing strength, assembly seams are used every 3 mm in length while blind stitches are used every 5 mm in length and 5 mm in width.