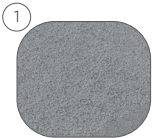
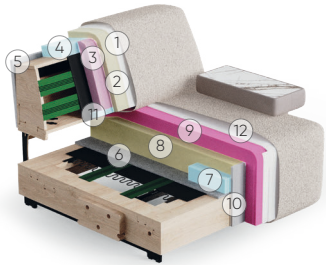


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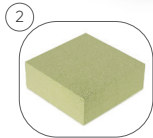
#checklist

Da Vinci

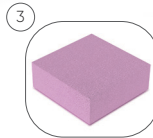
Time to explore the technical specifications of Da Vinci.



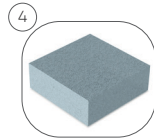
300 gr/m²
Fiber



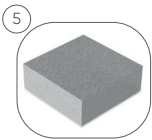
5 cm 25 kg/m³
HYPER Soft Foam



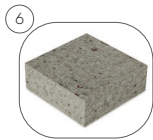
CNC-Cut
25 kg/m³
Super Soft Foam



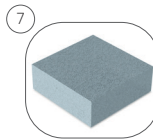
5 cm 45 kg/m³
HLB Foam



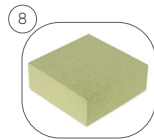
2 cm 26 kg/m³
PU Foam



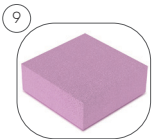
1 cm 60 kg/m³
Felt



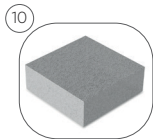
5 cm 45 kg/m³
HLB Foam



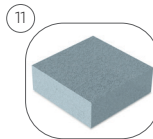
CNC-Cut
35 kg/m³
HR Foam



5 cm 35 kg/m³
HR Soft Foam



1,5 cm 18 kg/m³
PU Foam



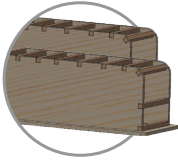
3 cm 45 kg/m³
HLB Foam



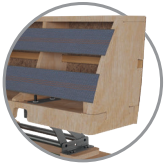
200 gr/m²
Fiber



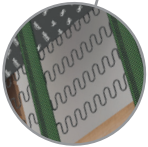
CONSTRUCTION



(Image 1-1)



(Image 1-2)



(Image 1-3)

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

Plywood, a high-strength (36 N/mm^2) 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.

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)

Elastic columns with a maximum interval of 4 cm with an elasticity of 60% and tensile strength of 350 kg obtained by weaving polyester threads around a total of 105 triple rubber fibers with a width of 7 cm are used 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

We implement a layered composite sponge application to maximize comfort and durability in the seat, back, and arms.

For the bottom layer of the seat, we apply a supportive felt made from 100% recycled polyester material with a density of 60 kg/m^3 (density) and a thickness of 1 cm.

As the main seat sponge, we use CNC-cut 9 cm sponge with a density of 35 kg/m^3 (density) HR (High Resilience) quality.

In the top layer, we use a flexible and soft sponge with a thickness of 5 cm and a density of 35 kg/m^3 (density) HR Soft quality for comfort.

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For support on the upper part of the back, we use a 5 cm hard sponge application with a density of 45 kg/m³ (density) HLB quality.

For the comfort sponge on the front of the back, we use a soft sponge with a density of 25 kg/m³ (density) CNC-cut.

To cover the upper part of the back as a comfort sponge, we use a soft sponge with a thickness of 5 cm and a density of 25 kg/m³ (density) HYPER Soft quality.

To prevent feeling the armrest skeleton, we apply a 1.5 cm hard sponge with a density of 18 kg/m³ (density)

For the entire piece in the seat, we use a top layer of non-woven, thermally and chemically bonded, %100 polyester 200 gr/m² premium non-laminated fiber produced with a heat and chemical bonding method.

To prevent excessive softening and sinking of the front of the seats due to intensive use and to enhance the aesthetic appearance of the front fabric, we apply a 5 cm thick, 20 cm wide, 45 (kg/m³) HLB barrier sponge in the front part of the seat.

MECHANISM



We use a mechanism specially designed for the Da Vinci model, which allows the modular expansion of the seat by 20 cm, adding the function of deepening the seat and becoming a bed.

Our mechanism is produced using DKP, HRP metal profiles with dimensions of 30x30x1.2 mm, shaped with high precision on CNC laser machines, and coated with textured electrostatic powder paint.

FITTINGS & LOAD-BEARING SYSTEMS

To connect the modules, we use 3 mm thick DKP, HRP, and 6220 metal sheet materials shaped with high precision on CNC laser machines.

The back and seat's main frame, which also has a supporting function, is made of specially designed metal legs with a thickness of 8 mm, coated with a special electrolysis method.

ACCESSORIES

A decorative painted wooden detail is used on the external back of the product.

Aesthetic-looking, high-strength ceramic with a thickness of 6 mm is used on the arm.

APPLICATIONS FOR STRENGTH AND DURABILITY

Products undergo an average of 30,000 sitting tests in the R&D processes. For 100 kg conventional products, seat cushions with 30-50% thicker sponge and 20-30% denser sponge are used.

Recycled material (felt) is used instead of 12% sponge.

Materials that do not pollute nature and reduce the carbon footprint are used.

More than 18% of wood material is used. Connection elements use wider surface and stronger materials that can carry 50-100% more weight.

The product's construction, production, transportation, assembly at home, and even children jumping on it are designed and implemented with consideration for its intended use.

The back cushion and throw pillows use a filling mixture and a tightly woven lining. The current filling mixture is more durable 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.