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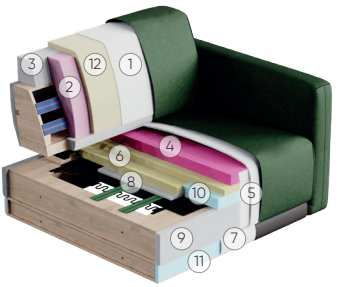
#checklist

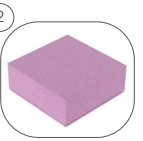
Le Mans Comfort

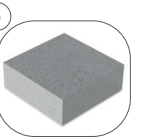
Time to explore
the technical specifications of
Le Mans Comfort.

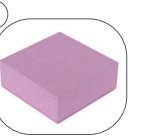


1

200 gr/m²
Fiber

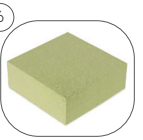
2

25 kg/m³
Super Soft
Foam

3

CNC-Cut
26 kg/m³
PU Foam

4

5 cm 35 kg/m³
HR Soft Foam

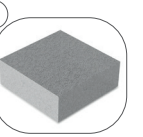
5

300 gr/m²
Fiber

6

8 cm 35 kg/m³
HR Foam

7

90 gr/m²
Fiber

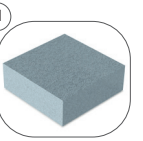
8

1,5 cm 18 kg/m³
PU Foam

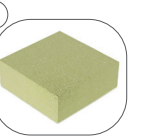
9

3 cm 26 kg/m³
PU Foam

10

5 cm 45 kg/m³
HLB Foam

11

1,5 cm 45 kg/m³
HLB Foam

12

5 cm 25 kg/m³
HYPER Soft Foam

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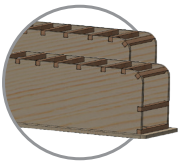
CONSTRUCTION

Plywood, beech wood, and MDF are used for the main frame.



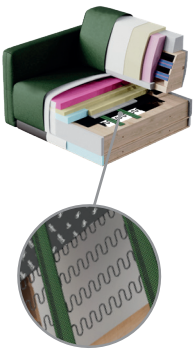
(Image 1-1)

Produced according to EN 636 standards, high-strength (36 N/mm2) plywood is made from layers of veneer. Veneers are created by arranging the fibers of approximately 1.5 mm thick wood layers perpendicular to each other and pressed with resin. Playwood is cut with high precision in CNC machines. (Image 1-1)

(Image 1-2)

First quality beech wood slats with a 10% or less humidity value, are kiln-dried and rested for at least 1 year before used as 2x2 cm, 5x2 cm, and 7x2 cm lathes. To create a box frame that increases the product's strength MDF (Medium Density Fiberboard) panels with thicknesses of 3 mm are mounted at the back and on the sides.

PVAc wood adhesive following EN 204 standard, water-based in D3 norm, and with high adhesion power, is applied at connections of all wooden parts in the frame. Our frames use connections with a notched system which increases their robustness. (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 Relax in seating. (Image 1-3)

Plastic material is used in various frame areas to reduce the sharpness at the corners and edges and to improve the visual appearance after upholstering.

FOAM

Layered composite foam is applied on the sitting, back, and arms parts to maximize Relax and durability.

HR (High Resilience) foam with a density of 35 kg/m3 is applied as the seating sponge at a thickness of 8 cm.

In the top layer, we use a flexible and soft sponge with a thickness of 5 cm and a density of 35 kg/m3 (density) HR Soft quality for Relax.

26 kg/m3 (density) CNC cut 12 cm thick hard sponge is applied as support on the upper back.

For the front part of the back, a soft foam with a thickness of 5 cm and a density of 25 kg/m3 in HYPER Soft quality is applied for Relax.

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A 3 cm hard sponge is applied on the arm to prevent feeling the skeleton.

The top layer covering the entire piece on the sitting part is 100% polyester 300 gr/m2 first-class laminated fiber filling, produced nonwoven by thermal and chemical bonding methods.

In order to prevent excessive softening and sinking of the front part of the seats due to intensive use and to enhance the aesthetic appearance of the front fabric, a 5 cm thick, 20 cm wide HLB barrier foam with a density of 45 kg/m3 is applied.

FITTINGS & LOAD-BEARING SYSTEMS

To connect the modules to each other, a 4 mm thick electrostatic powder painted metal module jointing apparatus is used.

First-class, dried, painted, wooden lathe legs are used in the Le Mans Comfort model. At the bottom of the legs are plastic protectors that prevent slipping and damaging the floor.

MECHANISM

In the Le Mans Comfort model, the DSS32-10 back mechanism is used, which provides a 31 cm widening of the seat and adds the functions of a seat deepening and bed to the product.

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

ACCESSORIES

The arm and back parts have stitched upholstery that enhances aesthetics and design.

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

Factors such as structure, construction, production, shipment, assembly at home, including children jumping on the product, have been taken into consideration from design and production stages to all the way up to the finished product.

A mixed padding and fine woven lining are used in backrest cushion and throw pillows. The current mixed padding is more durable compared to other conventional padding materials.

FABRIC & SEAMS

All our seats use fabrics from manufacturers that produce in accordance with international quality standards.

All our fabrics are primarily according to EN ISO 12947-2, EN ISO 13936-2, EN ISO 13937-3, EN ISO 13934-1, and EN ISO 14704-1 standards. Fabrics we use are also subject to all necessary physical and chemical tests and are based on the relevant standards reaching high values on Martindale Abrasion Test (more than 50.000 rpm), pile loss (over 10,000 rpm), pilling resistance (5 and above), and tear resistance (40 N and above).

Our average fabric weights are 725 gr/m2 in nubuck series, 450 gr/m2 in woven series and 325 gr/m2 in velvet series (EN 12127).

As the joining sewing thread number 30 tex 80, lubricated polyester thread is used, which is produced from high-strength (5200 cN) endless fiber polyester with reduced stretch.

In the printing seams number 20, 135 tex, that we apply to increase resistance and visual satisfaction, highly resistant (9500 cN) nylon 6.6 thread is used.

Our sewing threads are Oeko-Tex Standard 100 certified.

To maximize the seam strength, stitching is performed with a 3 mm pitch for joining seams, 5 mm for pressing seams, and 5 mm for pressing width.