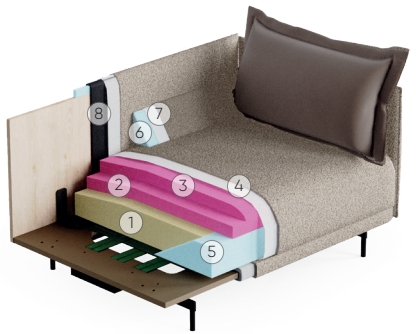
saloni

#checklist

Morris

Time to explore the technical specifications of Morris.

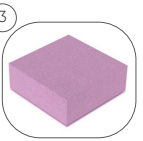


1

13 cm 25 kg/m³
HR Foam

2

5 cm 25 kg/m³
HR Soft Foam

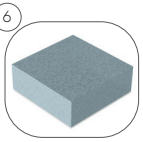
3

5 cm 25 kg/m³
HR Soft Foam

4

300 gr/m²
Fiber

5

13 cm 35 kg/m³
HLB Foam

6

CNC-Cut
35 kg/m³
HLB Foam

7

200 gr/m²
Fiber

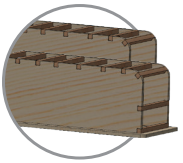
8

1 cm 60 kg/m³
FIRM Foam

saloni.furniture

CONSTRUCTION

The main construction of the sofa consists of plywood, beech wood, and MDF.



(Image 1-1)

High-strength plywood (36 N/mm2), produced in accordance with EN 636 standards, is manufactured by pressing approximately 1.5 mm thick wood layers, with fibers placed perpendicular to each other, together with resin. These sheets are precisely cut using CNC machines. (Image 1-1)

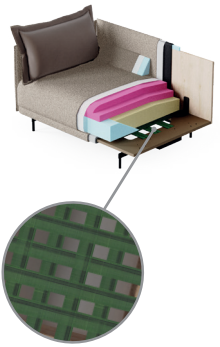
First-class kiln-dried beech wood battens, stored for at least one year with a moisture content of 10% or less, are used in cross-sections of 2x2 cm, 5x2 cm, and 7x2.5 cm.

(Image 1-2)

3 mm MDF (Medium Density Fiberboard) panels are mounted on the back and side parts of the product to form a box structure that increases durability.

All joints of the wooden frame are bonded with water-based PVAc wood glue (D3 standard), in compliance with EN 204 standards, offering high adhesion strength.

Frames are assembled using a notched jointing system to improve durability.(Image 1-1) (Image 1-2)



(Image 1-3)

In the seating, 7 cm wide elastic webbing bands are applied. Each band consists of three rubber fibers wrapped with polyester yarn, providing 60% stretch and 350 kg tensile strength, and are placed at a maximum spacing of 4 cm. (Image 1-3)

Plastic components of various sections are used at frame corners and edges to reduce hardness and improve the post-upholstery appearance.

FOAM

Layered composite foam applications are used on the seat, back, and arms to maximize comfort and durability.

Removable cushions are used in the seat. To prevent the front part of the cushion from softening and collapsing due to heavy use, and to ensure a more aesthetic appearance of the front fabric, a triangular barrier foam (13 cm thick, 30 cm wide, 45 kg/m3 HLB) is applied to the front part of the seat base.

Inside the removable cushion, the main seat foam consists of 35 kg/m3 density HR (High Resilience) quality foam, CNC-cut with a thickness of 13 cm.

In the intermediate layer, a 5 cm thick flexible and soft foam with 35 kg/m3 density, HR SOFT quality, is used as comfort foam.

In the top layer, a 5 cm thick flexible and soft foam with 35 kg/m3 density, HR SOFT quality, is used as comfort foam.

The backrest and arms are fully covered with 1 cm thick foam of 60 kg/m3 density, FIRM quality.

The backrest and arms feature filling cushions made of a mixture of bead fiber and foam, enhancing comfort and supporting the aesthetic appearance.

As the top layer covering the entire seat, first-class laminated fiber made of 100% polyester, 300 g/m2, produced by thermal and chemical bonding in a nonwoven process, is used.

As the top layer covering the entire back, first-class non-laminated fiber made of 100% polyester, 200 g/m2, produced by thermal and chemical bonding in a nonwoven process, is used.

FITTINGS & LOAD-BEARING SYSTEMS

For this product, a first-class MDF wooden case is used as the carrier for the modules, enhancing both design and aesthetic appearance.

For connecting the modules and assembling the legs, 20x30x1.5 mm electrostatic powder-coated metal profiles are used.

The legs are manufactured using Ø20 mm tubular material and 8 mm thick specially designed components, coated with a special electrolysis method. At the bottom of the legs, plastic glides are used to prevent floor damage and slipping.

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.