

Product and application

wellboard – the corrugated wooden material

wellboard's corrugated surface and its flexibility make it an excellent material for exhibition, shop and furniture construction. Regardless of whether it's used for the counter or the back wall of the booth, a roll-front cupboard or a screen – wellboard gives the objects an unmistakable face.

The material

wellboard consists of 100% cellulose with no added adhesives or binders. The different profiles are pressed into the flat base plate using heat and pressure. In spite of its high stability, wellboard is a lightweight material: the different types weigh between 1.25 and 2.7 kg/m².

Profile types

The material is available in two different profile types:

wellboard alpha has a corrugated profile. It is available in the three versions minimum, medium and maximum which differ in the height and width of the corrugations and in the thickness of the material. The height of the corrugations varies between 4.4 and 8.5 mm and the thickness of the material is between 1 and 2 mm.

wellboard gamma was introduced in autumn 2000 and has a trapeze-shaped profile. As a result of its design, it has flat supporting surfaces which make it easier to glue and screw it to carrier materials and to attach mounting and fixing elements.

The material is manufactured in widths of 200 and 315 cm. The length varies between 440 and 550 cm depending on the type. For a short time now, the material has also been available as a "starter kit" in the format 200 x 200 cm.

Handling

wellboard can be handled like wood. It can be cut to size using water jets and laser beams as well as circular saws, band saws or fret saws. It can be glued using all commercially available wood adhesives with a low water content, Contact adhesives as well as one- and two-component PUR adhesives can be used. The surface can be treated with hard oils, glazes and varnishes.

We recommend layer-forming water-dilutable glazes and stains, one-component synthetic resin varnishes for clear varnishing in particular, combination varnishes based on polyurethane and acrylic resins as well as two-component polyurethane resin varnishes.

In the untreated state, the wooden material falls under fire protection class B2, but impregnation with a flame retardant allows B1 according to DIN 4102-1 to be achieved.

Applications

wellboard has a wide range of applications. As a result of its great stability in conjunction with its high flexibility, this wooden material is especially suitable for curved forms and variable elements. As the material is free of binders and adhesives, thus making it completely sound from an ecological point of view, it is especially recommendable for use in the living area.

Furniture construction

In the field of furniture construction, wellboard is for instance used for wall coverings or roller doors for cupboards. Thus, the Mobilair company uses wellboard to manufacture the roller doors for the Rolo series of cupboards. The body of the cupboards consists of veneered natural beech. The corrugated wooden material emphasizes the plain, timeless design of the furniture and enlivens the strict geometrical shapes.

Using the wooden material "wellium", the designer Franz Betz has developed a variable piece of multi-purpose furniture. One panel of the corrugated wooden material wellboard medium, which is equipped with oval openings, can be used with aluminium tubes to make a screen or a base for a table. Fixed to the wall, it can be used as a wardrobe or as shelves.

Shop construction and interior design

wellboard is often used in interior design for partitions or the back walls of shops. When it converted its offices, the architect's office Gaupenraub in Vienna designed a partition made of wellboard medium which can be moved into four different positions, allowing various spatial configurations. The partition moves on aluminium rails in floor and ceiling.

The material is often used for covering counters. The joiner's workshop Alexander Körner in Hemhofen designed a bar and reception area made of wellboard medium in conjunction with aluminium-coated HPL (high pressure laminate) board. wellboard is set into anodized aluminium brackets on the front of the counter. Beech stained to look like walnut and glued in layers is used as a cover panel.

Exhibition construction

The exhibition construction company "Hospes Messebau" brought the booth of Mercedes Benz at the Istanbul automobile exhibition to life using wellboard.

The characteristic elements of the Mercedes Benz booth were huge arcs made of wellboard. The various different directions in which the panels can be moved (they were used vertically as standing elements and horizontally as reclining shells) gave the booth an extremely dynamic appearance.

The arcs served as design elements and information carriers. The play of light and shade gave rise to interesting effects.

Presented with the Interzum Award

The special features of the material were honoured at the Interzum in Cologne in 2001:

well gmbh was twice given the first-time Interzum Award 2001 for especially innovative materials and design. The new product line "wellboard gamma" and the "wellium" furniture designed using wellboard won a prize in the highest category "Best of the Best". The assessment criteria included the degree of innovation, the functionality, the quality and the ecological soundness of the material.

wellboard award

In order to inspire other ideas for creative use, well gmbh ran a design competition on the subject of "functional wall coverings" for the first time in 2001. The competition was addressed to students of design, architecture and interior decoration. The students developed ideas for individual pieces of furniture and modular designs: The award-winning ideas included a wall covering which can be rolled up, a partition consisting of loops laid one above the other and a shelf system with interesting light effects.

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