

TECHNICAL DATA SHEET

ASSYX DuroBOARD®

The ASSYX DuroBOARD® consists of a compound material.

It consists of a high quality LVL-wooden core (Laminated Veneer Lumber), which is completely and inseparable coated on a worldwide unique production machinery with polyurethane of type BAYDUR®¹ from Covestro Deutschland AG (then known as Bayer Material Science AG), Leverkusen. Wooden cores of 3-layer glued laminated wood are used, as well.

The wooden core is manufactured either from European fir or spruce or Brazilian pine wood. The density of the wood varies from 500 to 650 kg/m³. The gluing of the wooden sheets is water-proof and boil-proof (WBP, AW-100 or similar specification).

The dimensional accuracy (tolerance) is in direction of length/width +1,0 mm/-1,0 mm and in thickness +0,5 mm/-0,5 mm.

The E-Module of the wooden core in load direction is on average 10.000 N/mm². This guarantees highest bending stiffness, elasticity and breaking strength.

The maximum bending of the wooden core is 1,0 mm per 1,0 m in length/width direction (by a panel thickness of 50 mm and thicker)

The complete, inseparable, air- and water-proof all around coating of polyurethane has a thickness of 2,5 up to 3,0 mm. The density of the polyurethane is approx. 1.1 kg/m³. The E-Module of the polyurethane is approx. 750 N/mm².

The polyurethane of type BAYDUR®¹ used for the ASSYX DuroBOARD® is a special development for this application. It reacts chemically and very intensively and is therefore after curing extremely impact resistant, temperature resistant between at least -25°C up to + 90°C (lab-tested), weather- and UV-proof (can be kept outside even in the hot sun), chemical resistant (all types of release agents can be used and a lot of other chemicals, too), non-corrosive and very wear- and tear-resistant.

The working edges are reinforced by a 300 g/m² fibre-glass-mesh.

With it's bevelled edges (14x14 mm) and the all around chamfer on both sides (7x7 mm) the ASSYX DuroBOARD® has an unmistakable design. This guarantees trouble-free handling throughout the whole transportation system.

The ASSYX team in Andernach, Germany

ASSYX GmbH & Co. KG
Zum Kögelsborn 6
D-56626 Andernach / Germany

Telefon: +49 (0) 2632 9475 10
Telefax: +49 (0) 2632 9475 111
Email: info@assyx.com
Internet: www.assyx.com

