

## TECHNICAL DATA SHEET

### ASSYX DuroBOARD®

The ASSYX DuroBOARD® is a high-performance board consists of a wood / plastic-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®<sup>1</sup>, manufactured by Covestro Deutschland AG (then known as Bayer Material Science AG) in 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/m<sup>3</sup>, 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 and width  $\pm 1,0$  mm and in thickness  $\pm 0,5$  mm, the maximum bending of the wooden core is 1,0 mm per 1,0 m in length and width direction (by a panel thickness of  $\geq 50$  mm).

The E-Module of the wooden core in load direction is on average 10.000 N/mm<sup>2</sup>, this guarantees highest bending stiffness, elasticity and breaking strength.

The complete, inseparable, air- and water-proof all around coating of polyurethane has a thickness of 2,5 up to 3,0 mm.

The polyurethane of type BAYDUR®<sup>1</sup> used for the ASSYX DuroBOARD® is a special development for this application. It is extremely impact resistant and temperature resistant between at least -25°C up to +90°C (lab-tested), 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 ASSYX DuroBOARD® is weather- and UV-proof. Storage under direct sunlight is possible without any problems. The color may change in the direction of honey-yellow, this does not affect the above mentioned product properties.

The coating with Polyurethan is done in a closed mold.

For production reasons there is apparent a so-called sprue-point at the front side and four circular markings at one side of the board. These are caused by pushers, which are needed to lift the board out of the mold. That is not a quality defect.

The working edges are enclosed for reinforcement by a 300 g/m<sup>2</sup> fibre-glass-mesh.

Upon request the ASSYX DuroBOARD® can be additionally provided with a RFID-Chip.

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 in all common transport systems.

We are at your service at all times for any further questions you may have.

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](mailto:info@assyx.com)  
Internet: [www.assyx.com](http://www.assyx.com)

