alkus®
INNOVATIVE SYSTEMS

# COMFODECK
# powered by alkus

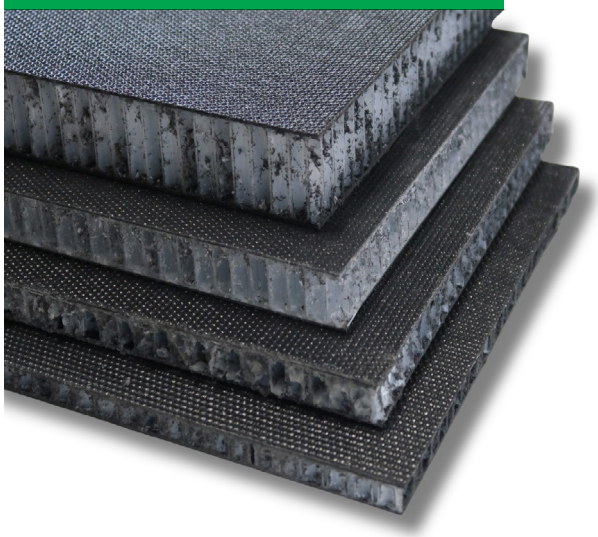
# Comfodeck powered by alkus scaffolding panel
# Light. Durable. Sustainable.

The Comfodeck powered by alkus scaffolding panel is a durable solution for working surfaces in scaffolding and event structures – designed for maximum cost-effectiveness and reliable performance under real-world conditions.

Some materials are simply better. The Comfodeck powered by alkus scaffolding panel is a high-performance solution for working surfaces in scaffolding and event sector. Designed for maximum flexibility, it integrates seamlessly into a wide variety of systems – from scaffolding structures and access platforms to stages, grandstands, and podiums.

The lightweight construction with a polypropylene honeycomb core significantly reduces weight compared to wooden panels and makes handling, transport, and assembly easier. At the same time, Comfodeck remains dimensionally stable, water-resistant, and UV-resistant – even after many years of outdoor use. Surfaces, markings, and custom

Comfodeck offers lightweight and durable honeycomb panels in various thicknesses, with or without edge banding, for a wide range of applications.



**3 x lighter**
Up to 3 times lighter than the same thickness plywood.

**10 + year lifespan**
Easy to maintain, handle, repair.

**Impact resistance**
Withstands heavy impacts without compromising integrity

**Tested for load class 4**
(3,00 kN/m²)
According to EN 12811-3

**Water-resistant**
Weatherproof and immune to rot, mold and moisture.

**UV-resistant**
Prevents fading and degradation.
ISO 4892-2:2006 CYCLE 1

**Chemical-resistant**
Resists corrosion from oils, acids, and solvents

**Anti-Skid surface**
R12 Rating according to EN 16165

**Fully customizable**
Tailored size, thickness, edge banding and logo.

Facade scaffolding – stable working conditions for precise and efficient work on the construction site.

## SCAFFOLDING SYSTEMS – THINK ECONOMICALLY, REAP LONG-TERM BENEFITS

In the scaffolding industry, the cost-effectiveness of a deck panel is not determined by its purchase price, but rather over its entire service life. Frequent failures due to swelling, delamination, or wear and tear lead to replacement purchases, additional logistical costs, and reduced availability in the rental fleet.

The Comfodeck powered by alkus scaffolding deck panel was developed to address precisely these challenges. Thanks to its polypropylene honeycomb core construction, it remains dimensionally stable and durable – it maintains structural shape without moisture expansion, delamination or loss of quality, even under intensive use.

Tested in accordance with EN 12811-3 (Load Class 4 – 3.00 kN/m$^2$), Comfodeck meets the requirements of demanding scaffolding applications. Its long service life reduces downtime, lowers follow-up costs, and increases availability within the fleet. This results in a measurable economic advantage for manufacturers and rental companies.

## EVENT STRUCTURES – SAFETY WITHOUT COMPROMISE

Temporary structures such as stages, grandstands, and podiums must meet the highest standards of safety and reliability. Comfodeck offers a tested and durable solution for these applications. In addition to a load-bearing capacity of 300 kg/sqm (load class 4 in accordance with EN 12811-3), the Comfodeck scaffolding panel is optionally available with an integrated fire classification (B-s1,d0). The fire protection properties are inherent to the material and remain effective throughout the entire service life – regardless of use or stress.

A slip-resistant surface (R12 according to EN 16165) ensures a secure footing even under severe weather condition as strong wind or heavy rains. Combined with its low weight and ease of handling, Comfodeck enables efficient assembly and disassembly – without compromising on safety or compliance with standards.

Comfodeck thus represents a reliable, cost-effective, and standards-compliant solution for the scaffolding and event industries.

Reliable solutions for events with high standards.

## TECHNICAL CHARACTERISTICS – COMFODECK POWERED BY ALKUS

| Main Parameters | Glass Fiber Reinforcement | | | | | | | | Standard |
|---|---|---|---|---|---|---|---|---|---|
| Type of Panel | CD10 | CD11 | CD12 | CD14 | CD15 | CD16 | CD18.6 | CD30 | |
| Reference of Thicknesses (mm) | 10.0 | 11.0 | 12.0 | 14.0 | 15.0 | 16.0 | 18.6 | 30.0 | |
| Tolerance of Thickness (mm) | +/−0.5mm | | | | | | | | DIN EN ISO 13385-1 |
| Weight (kg/m²) | 4.19 | 4.31 | 5.62 | 4.65 | 4.98 | 5.5 | 6.69 | 8.03 | ISO 4605 |
| Maximum production width (mm) | 2950 +/−1mm | | | | | | | | |
| Maximum production length (mm) | 13500 +/−2mm | | | | | | | | |
| Tensile strength 90° (N/mm²) | 441.7 | 441.7 | 441.7 | 441.7 | 441.7 | 441.7 | 413.7 | 413.7 | ASTM D3039/ D3039M |
| Tensile modulus skin 90° (N/mm²) | 16995 | 16995 | 16995 | 16995 | 16995 | 16995 | 14781 | 14781 | ASTM D3039/ D3039M |
| Bending strength (N/mm²) | 83.9 | 76.3 | 49.4 | 56.2 | 52.1 | 40.0 | 46.7 | 21.5 | DIN EN ISO 14125 |
| Flexural modulus (N/mm²) | 4979 | 4366 | 4010 | 2526 | 2431 | 2480 | 2717 | 582 | DIN EN ISO 14125 |
| Heat ageing | 10 years | | | | | | | | External test |
| UV-ageing | 10 years | | | | | | | | ISO 4892-2:2006 |
| Alkaline ageing | 10 years | | | | | | | | External test |

| Thermal Properties | | |
|---|---|---|
| Thermal Expansion Coefficient (23°C – 50°C) ($10^{-6}$m/mK) | 32 | DIN 53752 |
| Temperature range (°C) | −40/+80 | DIN EN ISO 75 |

| Other Properties | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Load rating | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | DIN EN 12811-3 |
| Water Absorption (%) | <1.5 | | | | | | | | DIN EN ISO 62 |
| Surface anti skid rating | R12 | | | | | | | | DIN EN 16165 |
| Inflammability | B2/F2 | | | | | | | | DIN 4102/ DIN 53438-1 |
| Treatment for fire retardment | optional B-s1, d0/B1 | | | | | | | | DIN EN 13501-1/DIN 4102-1 |
| Processing | on site: like plywood<br>Industrial production: with optimized cutting and drilling geometries | | | | | | | | |
| Warranty | 7 years | | | | | | | | |

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