

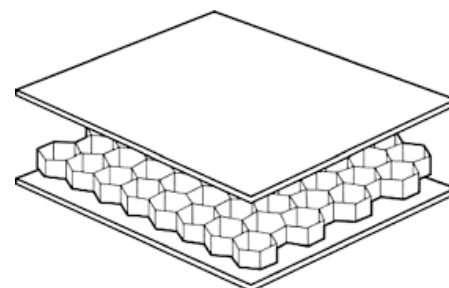
MATERIAL DATA SHEET

gop GOPANEL

HONEY-COMB CORE

gopanel is a glass reinforced honey-comb panel. The construction is based on a core of polypropylene, covered on both sides with a glass reinforced polypropylene sheet.

The layers of the panel are hot pressed.



PRODUCT SPECIFICATIONS

Core: Polypropylene

Color: White

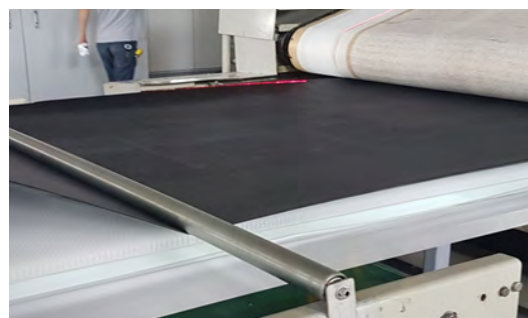
Density: 80 - 160 kg/m³

THE SKIN

A glass-reinforced skin encloses the Honey-comb core on both sides. The skin can be of symmetric composition but also asymmetric. On request optimized considering the application of the board.

The skin consists of minimum two layers of glass-reinforced PP-UD Tape. The layers are Thermo fused.

Each layer of PP-UD Tape is based on glass fiber in unidirectional layup and polypropylene.



SURFACE APPEARANCE

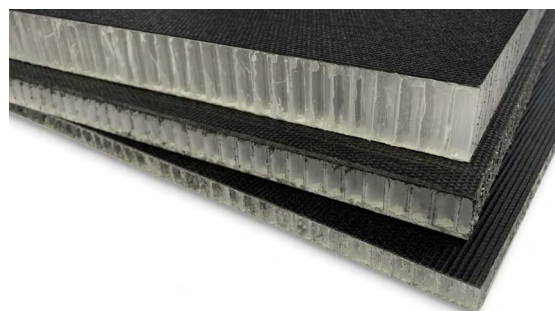
SURFACE OPTIONS

Glueable surface: Non woven polyester fleece

UV-protected: White PET-film

Anti-slip: High friction Anti-slip pattern

Logo can be printed on neutral skin within a limited range.



COLOR

AVAILABLE COLORS*

Standard: Natural

Standard: Black

*Other colors on request.

GENERAL PROPERTIES

WEIGHT

The gopanel has no specific density, since the product consists of a core and two skins. The core can have a density varying from 80 kg/m³ to 160 kg/m³.

The skin consists of minimum 2 layers of UD-glass fiber sheets.

TYPICAL SIZE

Width	up to 2800 mm	Tolerance ±0,5-2 mm
Length	up to 12000 mm	Tolerance ±0,5-5 mm*
Thickness	9,4 mm - 40 mm	Tolerance ±0,5-1,25 mm**

*Depends on total length

**Depends on thickness

TYPICAL PERFORMANCE

Thickness	9,5 mm	10,5 mm	11,5 mm
Weight	4150 g/m ²	4300 g/m ²	4350 g/m ²
Compressive strength	4,2 MPa	4,3 MPa	4,3 MPa
Maximum load	1960N	2258 N	2582 N

140 kg/density on core was used in the test. Sample size 100 mm x 300 mm.
Width and length can be customized.

AGING ABRASION

HEAT AGING

gopanel were aged in +80°C for a duration of 2000h. This is roughly estimated to simulate 10 years of oxidative thermal degradation in Scandinavia. This is based on the rule of thumb that these processes go twice as fast for every 10° the temperature is increased.

UV-AGING

gopanel, black anti slip skin, were exposed for 2000h according to ISO4892-2:2006 cycle 1. This test simulates 2 years of direct UV-exposure.

Without the anti slip skin the UV-protection can be according to the above result by applying an anti-UV film. On request.

ALKALINE AGING

gopanel were aged in milk of lime at 50°C for 500h. This test was carried out to evaluate if the product is likely to withstand effects from alkaline products such as mortar and concrete.

FLEXURE TEST

The tests were performed on two of the heat aged and two of the alkaline aged objects and their references.

The pieces were tested with four-point bending according to the principles in ISO 14125. The span was 80 mm and the mid span was 30 mm. The test speed was 2 mm/min.

A Zwick/Roell Z100 machine was used. Accuracy grade 0,5.

The load cell had capacity 2,5kN and accuracy grade 0,5.

ABRASIVE RESISTANCE

Testing based on SS-EN 13892-5 Methods of test for screed materials - Part 5: Determination of wear resistance to rolling wheel of screed material for wearing layer. Reference to report 9F044378 RISE.