

SKYBOND Product sheet

Aluminium composite material

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Skybond Classic Digital

Original durable light weight and rigid aluminium composite sheet consisting of thin aluminium layers of 0,3mm and a polyethylene core. Skybond Classic utilizes top quality grade 300 micron aluminium AA3003 skins. This feature makes it ideal for processing and producing 3D and fabrication work of the highest standards. It is available in white and in a range of gloss/matt colours and finishes. It uses a highest grade UV surface finish on both sides. Skybond Classic White Digital has an enhanced digital polyester paint surface, optimized for UV flatbed printing. Skybond fully meets European RoHS legislation and holds Fire Certification to EN 13501 European Class B. Easily cut, bent or folded Skybond Classic is ideal for general print, fabrication and construction applications. It meets fully European RoHS legislation and is available in 1000, 1250, 1500 and 2000mm widths.

Skybond Lite Digital

A lighter weight mid-range ACM, with 200 micron aluminium skins. It is available in white matt/matt and gloss/matt. Skybond Lite Digital has an enhanced digital polyester paint surface, optimized for UV flatbed printing. Skybond Lite Digital fully meets European RoHS legislation. Both sides easy peel off protection film.



TECHNICAL DATASHEET

| Panel Dimensions | Unit | SKYBOND® | | | |
|-----------------------------|----------------------|--|---|--|---|
| Panel thickness | mm | 2 | 3 | 4 | 6 |
| Thickness aluminium | mm | Classic 0.3mm / Digital 0.2mm | | | |
| Weight Classic | kg/m ² | 2,90 | 3,80 | 4,75 | 6,60 |
| Weight Digital | kg/m ² | 2,60 | 3,50 | 4,40 | |
| Sizes | mm | 2500 x 1250 3050 x 1500 | 3050 x 1000 4050 x 1000 2500 x 1250 3050 x 1500 3050 x 2000 | 2500 x 1250 3050 x 1500 4050 x 1500 3050 x 2000 | 2500 x 1250 3050 x 1500 4050 x 1500 |
| Tolerances | | | | | |
| Thickness | mm | ± 0.2 | | | |
| Width | mm | ± 2 | | | |
| Length | mm | - 0 / + 4 | | | |
| Diagonal | mm | ± 5 | | | |
| Aluminium thickness | mm | ± 0.02 | | | |
| Thermal Expansion | m/°C | 2,4 mm per mtr @ 100°C Δ temperature | | | |
| Surface properties | | | | | |
| Paint thickness | micron | 20μ | | | |
| Lacquering | | White Classic and Lite: enhanced modified digital polyester. Coloured Classic: two layers UV paint. | | | |
| Acid Resistance | | Immerse surface in 2% HC1 for 48h no change | | | |
| Gloss | % | 35% Matt / 95% Gloss (Tolerance ± 5%) | | | |
| Pencil hardness | HB | 3H | | | |
| Temperature resistance | °C | - 50 to + 80 | | | |
| Technical Properties | | | | | |
| Rigidity | kNcm ² /m | 345 | 865 | 1620 | 3840 |
| Alloy aluminium | | 3003 | | | |
| E-module | N/mm ² | 70.000 | | | |
| Tensile strenght | N/mm ² | 145-185 Rm | | | |
| Sound insulation | dB | 23 | 24 | 25 | |
| Heat coefficient | W/m ² K | 5.72 | 5.61 | 5.50 | 5.30 |
| Core, black PE | g/cm ³ | 0,92 | | | |
| Fire Resistance | EN 13501 | 3mm EN 13501:B-s2-d0 | | | |
| Weather Resistance | | | | | |
| Color Variation | ASTMD | 5 year ΔE 3 | | | |
| Chalking | ASTMD | 5 year index 8 | | | |
| Durabilty outdoor | | 5 year warranty for Skybond Classic | | | |
| Certifications | | ISO 9001 / ISO 14001 / RoHS / REACH | | | |

This information on characteristics is based upon information from the manufacturer we believe to be reliable.

The values listed herein are typical values and are not for use in specifications. They are intended only as source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material to their specific use. All technical data are subject to change.