

# SUN BLINDS

This document is intended to provide general recommendations only. Trespa provides these guidelines and all testing, code and design data for informational purposes only and strongly advises that the customer, project owner and architect seek independent advice from a certified construction professional and/or engineer regarding application and installation as well as compliance with design requirements, applicable codes, laws and regulations, and test standards. Please check your local codes and applicable design requirements for proper use.

## General

Double sided decorative Trespa® Meteon® panels with a minimum thickness of 8 mm ( $\approx 5/16$  in) can be used as a semi-finished product to manufacture exterior sun blinds.

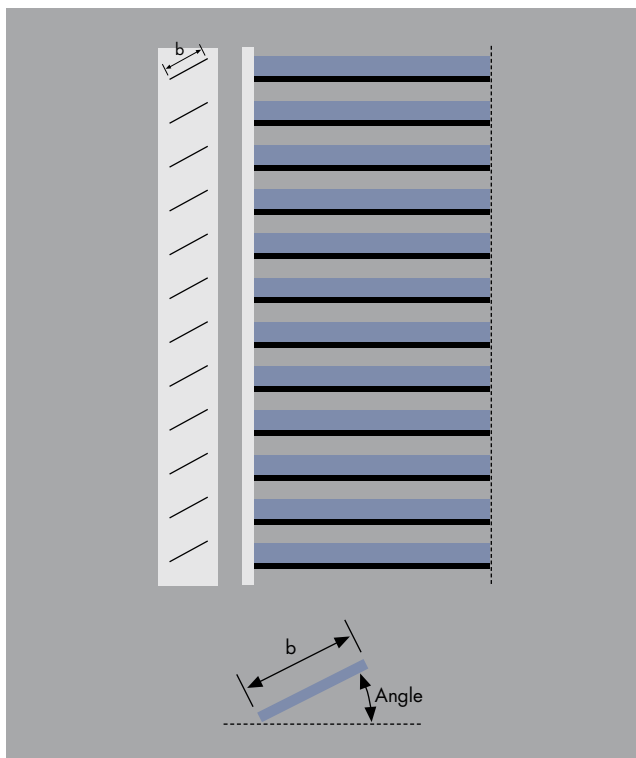
Trespa® Meteon's® standard delivery programme complies with European Standard EN 438-6 and has been accepted for the European Economic Area (EEA) mandatory CE mark according to the EN 438-7. Should you want to use Trespa® Meteon® panels for the manufacturing of sun blinds, such panels form a component (semi-finished product) of a finished building product and as such CE certification according to EN 438-7 certification may not be applicable. For such applications alternate CE-certification may have to be obtained under responsibility of the finished building product manufacturer.

Trespa® Meteon® is tested for colour stability in accordance with the accelerated weathering tests. The weather resistance properties, as mentioned in Trespa® Meteon® Material Property Datasheet, are only valid for Trespa® Meteon® panels used for vertical applications like façade cladding, balcony paneling and other applications as mentioned in our manufacturer's documentation. The actual performance of the product will depend on the actual circumstances and the amount and intensity of light that falls on the product once it has been installed.

## General installation guidelines

The following general installation guidelines apply:

- The sunblind metal sub-frame around the Trespa® panel should be weather resistant. The frame should be of sufficient strength and stiffness to withstand wind load and other forces without excessive deflection.
- The Trespa® panel should be kept free from the sub-frame for at least 5 mm ( $\approx 1/4$  in) at the sides
- The minimum width (b) of sun blinds is 100 mm ( $\approx 4$  in). The sun blinds should be fixed with at least 2 fixings per support, with a minimum of 3 supports per panel.
- Both the front and back of the panel must be ventilated with ambient air. It is not possible to glue Trespa® panels over the whole surface onto a sub-frame.
- The fixing distances stated in Table 1 need to be decreased, when holes or grooves are machined into the panel, depending on the size, location, and number holes or grooves.



## Venetian blinds

The most common way for using Trespa® panels as sun blinds, is to install Trespa® strips horizontally in front of a window, usually at an angle. The maximum fixing distances are derived from the panel thickness, the wind load and the angle of the panel with the horizontal plane. This information is stated in Table 1. As the minimum number of supports per panel is 3, only the fixing distances for 3 or more fixings in one direction are given.

**Table 1: maximum fixing distances for Venetian blinds**

Angle* of the blinds	Panel thickness (mm)			Panel thickness (inch)		
	8	10	13	5/16	3/8	1/2
< 40°	800	1000	1300	31 1/2	39	51
40° - 50°	850	1050	1350	33 1/2	41 1/2	53
> 50°	800	1000	1000	31 1/2	39	39

\* angle of the blinds with the horizontal plane.

These fixing distances are valid up to a wind load of 600N/m<sup>2</sup>. If the wind load on the sun blinds is higher, the fixing distances should be decreased. If the panels are framed or have metal profiles fastened to the side or back, the fixing distances stated above can be increased, depending on the added stiffness.

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