

SUN PROTECTION



Think Trespa

TRESPA®

SUN BLINDS

GENERAL

- Double sided decorative TRESPA® METEON® panels with a minimum thickness of 8 mm 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.



SUN BLINDS

General

- 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.



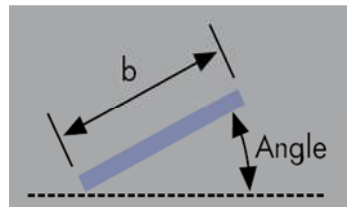
GENERAL INSTALLATION GUIDELINES

The following general installation guidelines apply:

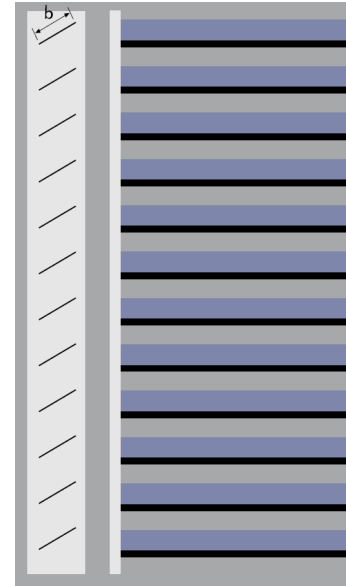
The sun blind metal sub-frame around the TRESPA® panel should be

- weather resistant and
- of sufficient strength and stiffness to withstand wind load and other forces without excessive deflection.

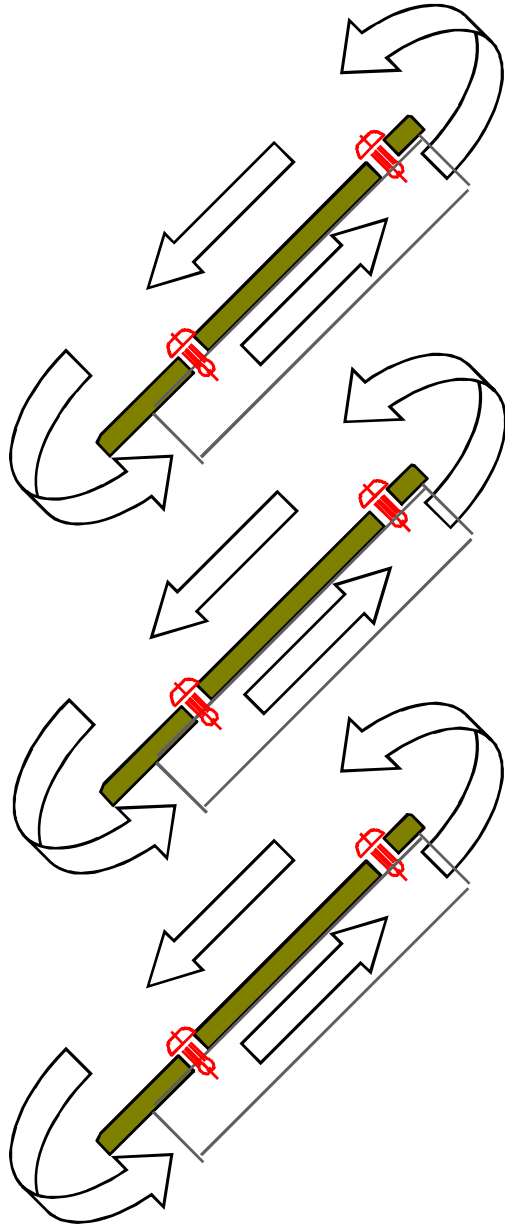
The TRESPA® panel should be kept free from the sub-frame for at least 5 mm at the sides
the minimum width (b) of sun blinds is 100 mm.



The sun blinds should be fixed with at least 2 fixings per support, with a minimum of 3 supports per panel.



GENERAL INSTALLATION GUIDELINES



Both, the front and back of the panel must be ventilated with ambient air.

It is not possible to fix TRESPA® panels over the whole surface onto an entire sub-construction (e.g. by adhesive).

FIXING DISTANCES

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)		
	8	10	13
< 40°	800	1000	1300
40° - 50°	850	1050	1350
> 50°	800	1000	1000

** angle of the blinds with the horizontal plane.*

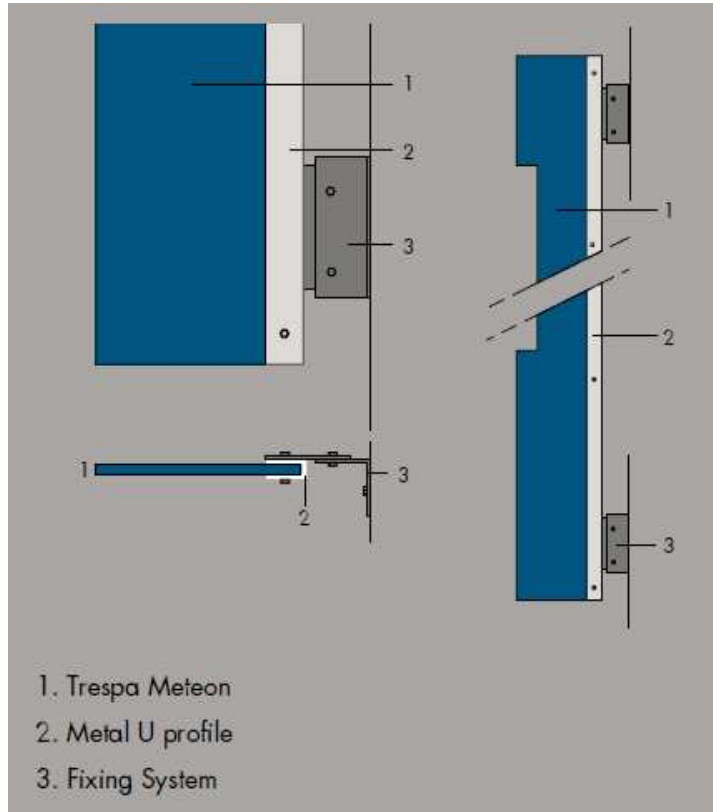
- The fixing distances stated in table 1 need to be decreased, when holes or grooves are machined into the panel, depending on the size, location, and number holes or grooves.
- These fixing distances are valid up to a wind load of 600N/m². If the wind load on the sun blinds is higher, the fixing distances 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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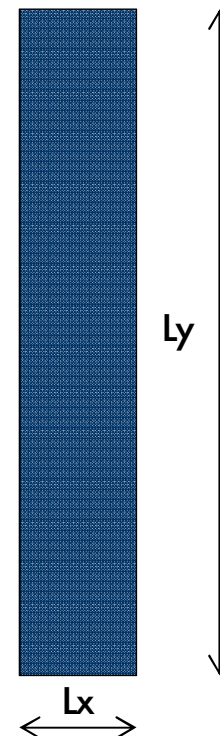
SUN BLINDS VERTICAL

TRESPA[®] METEON[®] PERSPECTIVES RHYTHM



Wave

This design uses a U-profile. The possible length and width of the panel is determined by the choice of fixing system and panel thickness. For this design we used a 13 mm panel. This allowed us to meet the wind load requirements and allowed us to have a fixing system for only one side of the panel.



Maximum fixing distances

Max. panel dimension (mm)	Ly/Lx	Panel thickness (mm)	
		10	13
3050 x 300	≥ 2,5	650	900

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Project in Serbia

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Project in Spain

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other solutions are possible



Projects in Lebanon and France

SHUTTERS

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SHUTTERS

General

- Double sided decorative TRESPA® METEON® panels with a minimum thickness of **10 mm** can be used as a semi-finished product to manufacture **shutters**.
- 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 **shutters**, 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.



SHUTTERS

Apart Hotels Montjuic - Barcelona
on Googlemaps - Street View



- For both applications the fixing and construction guidelines are provided below. Please note, the fixing distances stated in tables 1 and 2 need to be decreased when holes or grooves are machined into the panel based on the size, placement, and number of holes or grooves applied.

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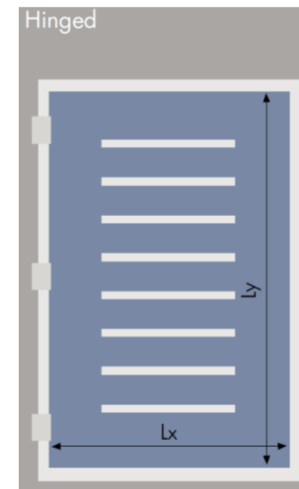
SHUTTERS

Hinged

- In the case of hinge fastening, the TRESPA® panel should always be installed in a metal frame and the hinges attached to the frame.
A minimum of 3 hinges per panel is recommended.
The general fixing distances are given in Table 1.
The following guidelines apply to the frame construction and application
- The metal frame around the TRESPA® panel should be
 - weather resistant
 - of sufficient strength and stiffnessto withstand wind load and other forces without excessive deflection.
- The TRESPA® panel should be kept free from the frame for at least 5 mm at three sides.
- Durable EPDM gaskets should be used to close the gap between the profile and the TRESPA® panel, preventing the panel from rattling.
Mastic and/or tape are not suitable.
- Water drains are necessary in the lower horizontal profile using a hole diameter of 8 mm or using slotted holes of 5 x 25 mm.
- The TRESPA® panel should be placed on support blocks of two per panel with a minimum size of 5 x 50 mm.

Table 1: maximum Lx for hinged shutters

Ly/Lx	Panel thickness (mm)	
	10	13
≥ 2,5	650	900
2,0	700	950
1,5	800	1050
1,0	950	1250



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HINGED EXAMPLES



Projects in Spain

TRES|PA®

SHUTTERS

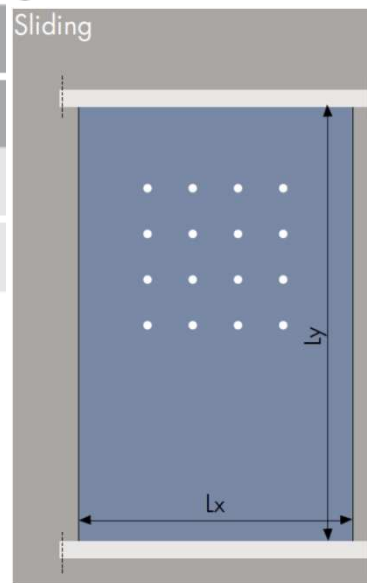
Sliding

- Also in the case of sliding applications, the TRESPA® panel should always be installed in a metal frame.
The metal frame around the panel should be held by **top** and **bottom** rails, which have wheels fastened to roll over the shutter construction.
The sliding rails should be of sufficient strength and stiffness to withstand wind load and other forces without impermissible deflection.
The general fixing distances are given in table 2.

Table 2: maximum fixing distances for sliding shutters

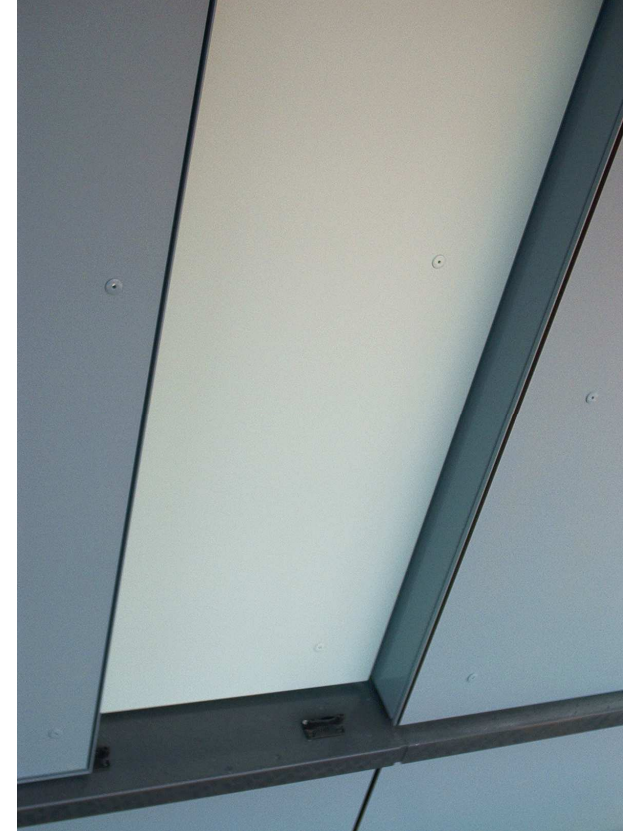
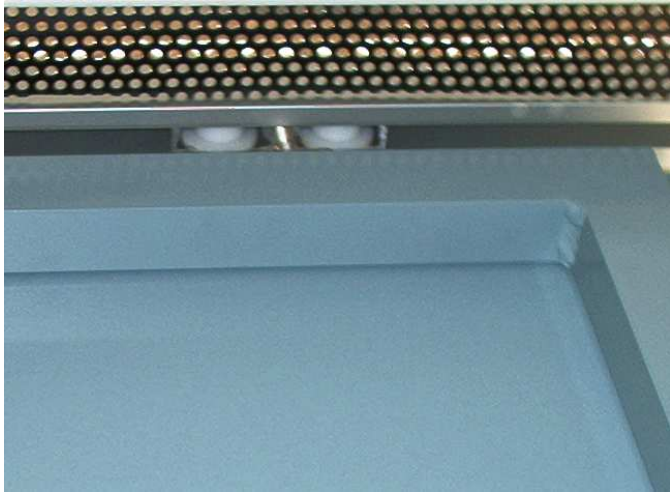
Vertical span L_y max. (mm)	Panel thickness (mm)	
	10	13
Without frame	950	1250
With 4-sided frame	1200	1500

Horizontal span L_x is not limited.

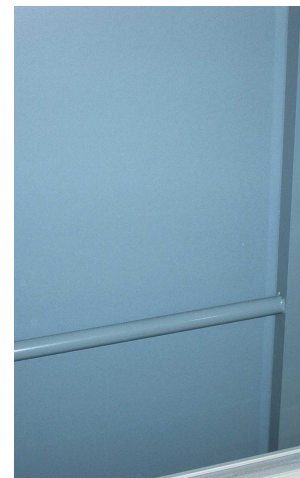


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SLIDING EXAMPLES



Project in Germany



SLIDING EXAMPLES



Project in Germany



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