



# Zip Screen 105

The technology behind the zipper

**AMO**Pergolas 

# Zip Screen 105

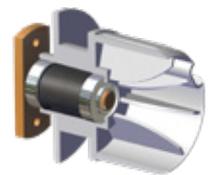
Screens are a form of exterior sun blinds, which have become increasingly popular during the past few years. This is hardly surprising, given that vertical screens are installed parallel to the facade, and they open and close in the same way. This means that the screen does not extend outwards from the facade at all, and therefore does not occupy precious space.

In addition to effectively deflecting solar energy, the SolidScreen also offers visual comfort by admitting diffuse light, without blocking the outside view. The system is successfully tested on wind loads of up to 145 km/h, and has achieved the highest rating in both durability and wind load tests performed by TÜV. The SolidScreen is therefore highly suitable for use at considerable heights. Several versions of this versatile screen have been developed.

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The SolidScreen is made of durable materials and is extra solid due to, for example, double bearing in various bearing bungs and an additional special headbox support to wide dimensions. There are also special rollers available with a recessed fabric groove, which significantly reduces the marks while rolling up of the screen fabric.

All SolidScreens have mounting plates, which allow the top roller to be slid in and out of the headbox, and various side guides provide the ability to fully carry the engine cable out of sight.



*Sectional plastic bearing bung with double bearing*

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### Colour

A range of several standard colours is always available in stock. This enables us to ensure swift delivery. And we can usually also cater to your own particular preference in this regard, as the SolidScreen can be supplied in practically any RAL colour.

### Headbox

The headbox is the most conspicuous part of the system attached to the façade, when the SolidScreen is opened. You therefore have the choice of a wide range of headbox shapes and dimensions.

### Operation

We can offer you various types of operating systems. In fact, the SolidScreen can be operated using a wall-mounted switch, remote control unit or even an app installed on your smartphone or tablet.



### Side guides

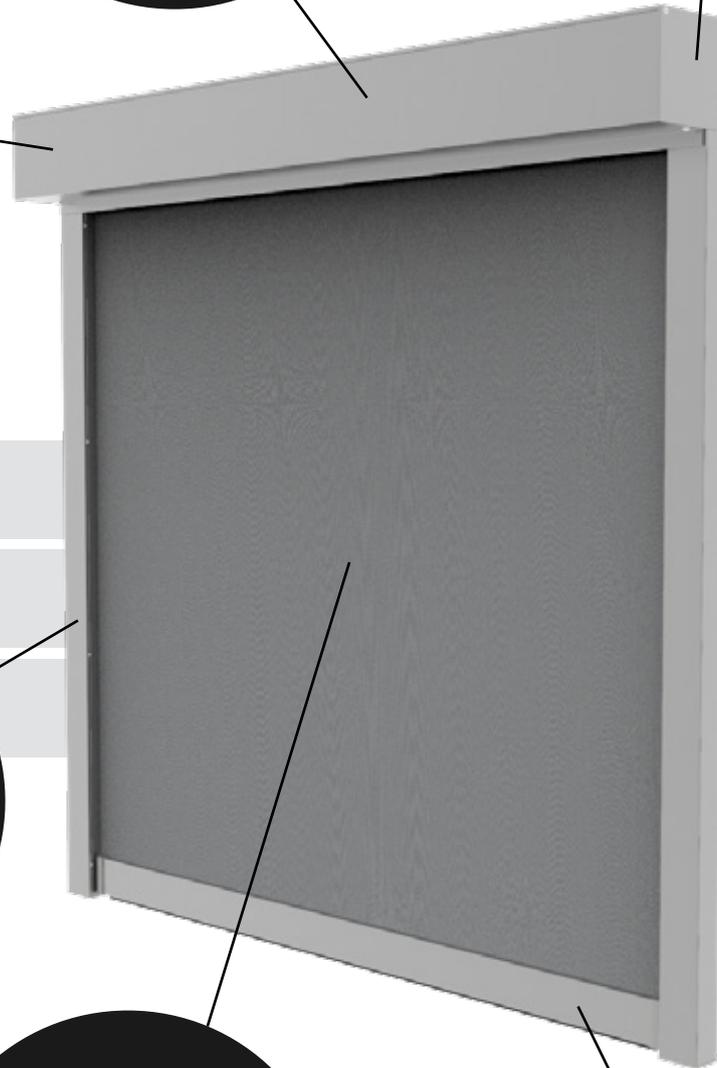
The SolidScreen offers many of its unique functions due to the side guide, equipped with zip-guided technology. The screen closes fully, between the guide and the fabric.

### Screen fabric

The screen fabric determines both the appearance of the SolidScreen and the ambience it creates. You have a choice of no fewer than forty Tibelly Sergé and eight Tibelly (highly light-reducing) ecole1% fabric colours. Hence something to suit every taste.

### Bottom slats

The bottom slat plays a crucial role. It keeps the screen fabric taut, while providing a tight seal at the base, in combination with a brush or rubber strip. Your local SolidScreen dealer would be pleased to assist you in choosing the most suitable of the various options available.

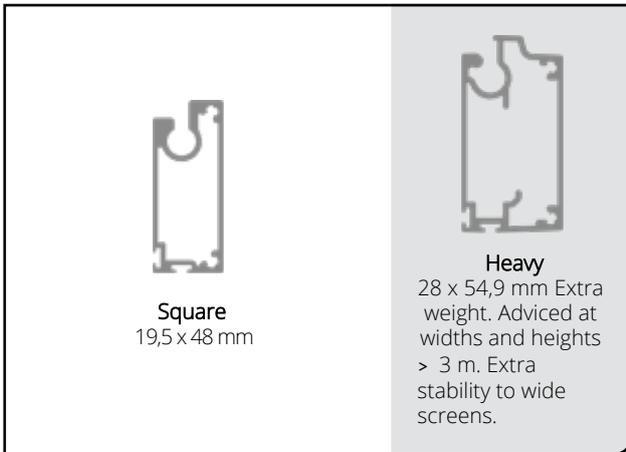


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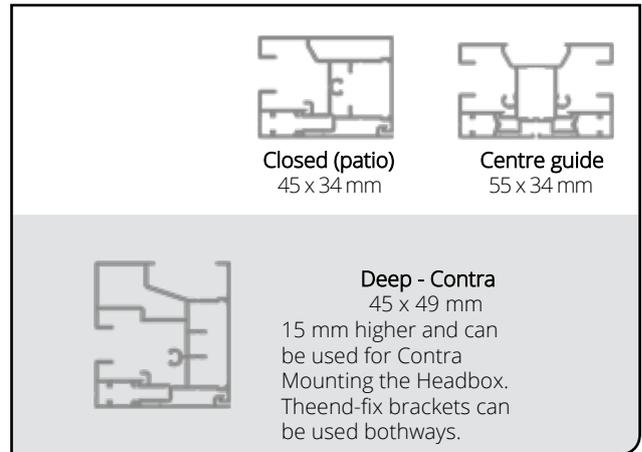


The **SolidScreen Standard** is the basic of the entire SolidScreen range, and the forerunner of all other zip-guided screens. It is the solution for anyone who requires a high quality storm proof screen.

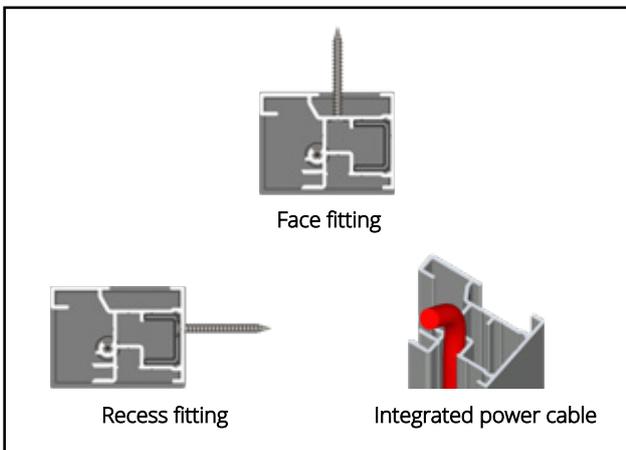
## Bottom slats



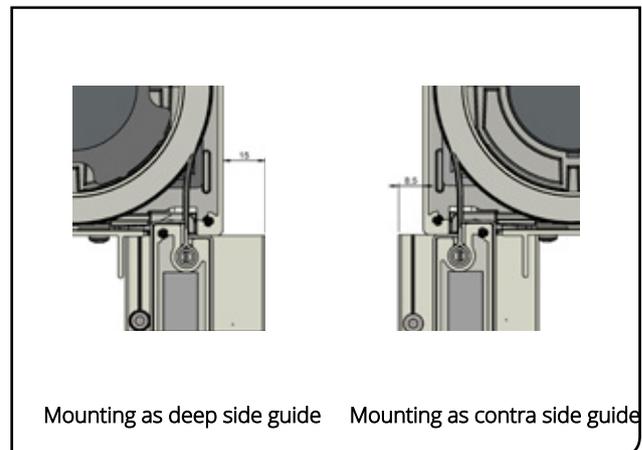
## Side guides

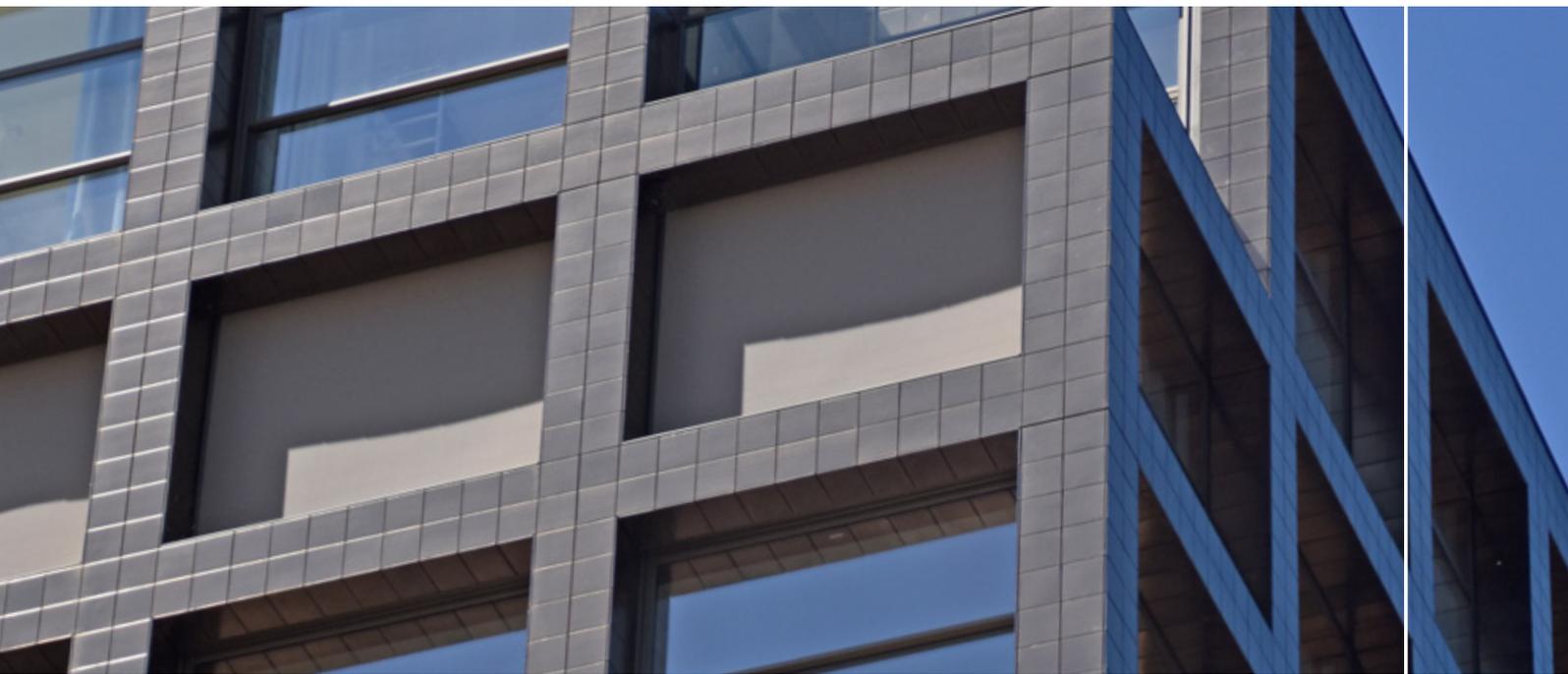


## Mounting



## Deep- contra side guide



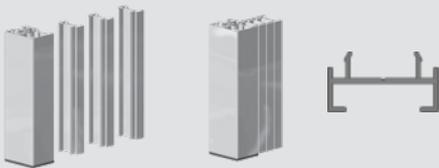


## Headbox

Headbox size	Headbox model	Max. width	Max. height	Roller	Additional information
105		3000 mm 4000 mm	3500 mm 3000 mm	78 mm	

## Options

**Filling profile**  
12 x 30 mm for click side guides.



**Linkable**  
All sizes of the SolidScreen are linkable with corresponding coupling set.



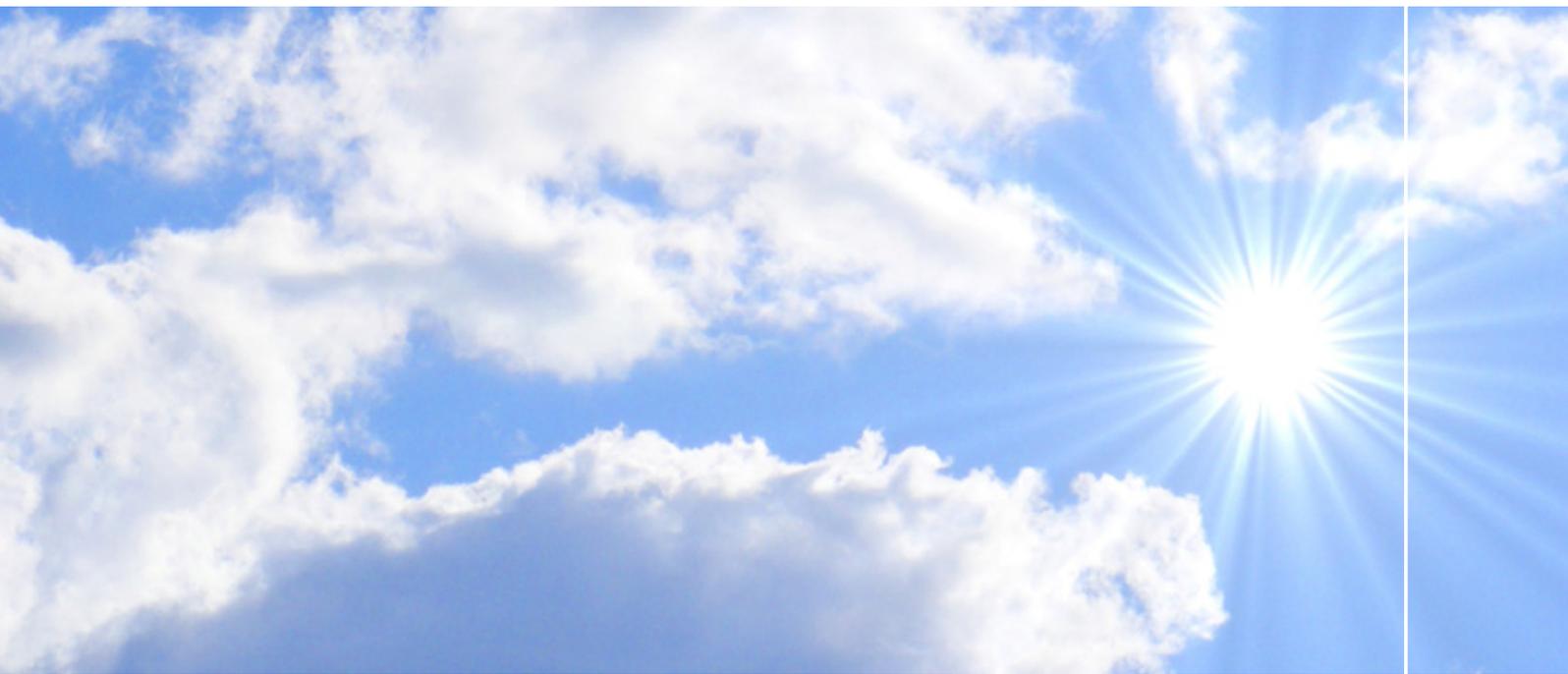
# Certification



We set great store by quality. All our sun protection products are compliant with the CE standards and, since the year 2000, have been subjected to extensive testing by the TÜV Nord Group. This is carried out in accordance with the DIN EN 13561:2009-01 and DIN EN 1932:2013-08 standards.

SolidScreens are tested on the basis of two criteria: Lifespan class and wind resistance class, which are assessed on a scale of 0 to 3. The SolidScreen range emerged from the tests with the highest possible rating, namely class 3 (lifespan) and 4 (wind resistance).





### Lifespan class according to DIN EN 13561

Lifespan expresses the number of extension and retraction movements that an exterior sun blind can withstand. The overview below indicates the various applicable classes.

Number of movements	Class 1	Class 2	Class 3
Open and close	3.000	7.000	10.000

### Wind resistance class according to DIN EN 1932

Wind load is the maximum force of the wind which an opened exterior sun blind can withstand. The overview below indicates the various wind resistance classes.

Wind resistance class	Class 0	Class 1	Class 2	Class 3	Class 4
Beaufort scale	< 4	4	5	6	7
V (km/u) (maximum)	< 28 km/h	28 km/h	38 km/h	49 km/h	61 km/h
V (m/s) (maximum)	< 7,8 m/s	7,8 m/s	10,5 m/s	13,6 m/s	17 m/s
Nominal test pressure p (N/m <sup>2</sup> )	< 40	40	70	110	170
Safety test pressure 1,2 p (N/m <sup>2</sup> )	< 48	48	84	132	204

#### Example:

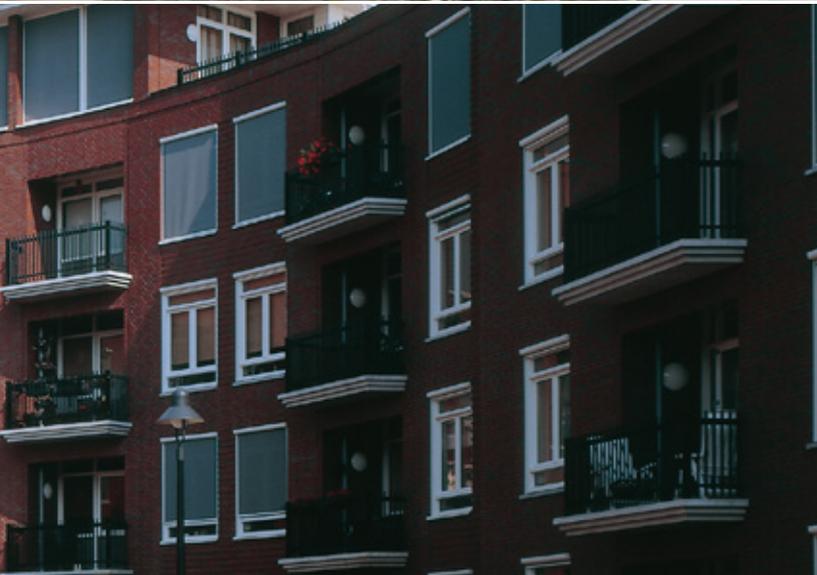
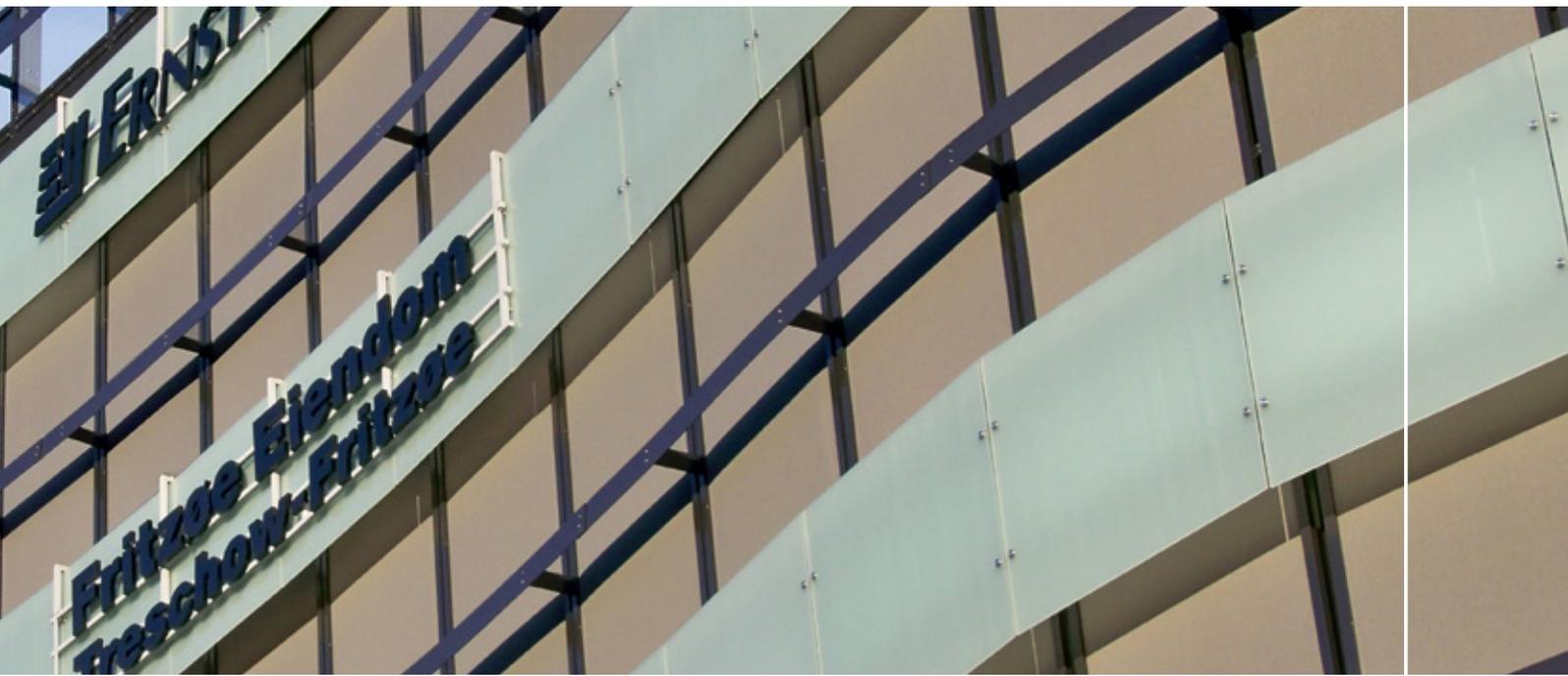
Wind resistance class = Beaufort-scale class 4 = windspeed of max. 28 km/u or 7,8 m/s = pressure of 40 Newton per m<sup>2</sup>.

To emphasize the strength of our SolidScreen, we asked the Von Karman Institute to submit our zip-guided screen to an additional wind tunnel test. After a successful test (VKI EAR 1040 SolidScreen 95 report) on the maximum capacity of the wind tunnel at a wind speed of 145 km/h, our SolidScreen was still fully functioning.

### Wind pressure test WTCB

In addition to the wind tunnel test, a wind pressure test has been performed by the WTCB (report 651 XI 180 CAR 10143). Here too, the SolidScreen zip-guided system appeared to be resistant to very high in wind pressures.





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