



## We do research for a better indoor air quality.

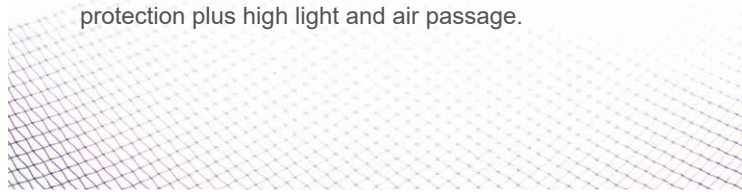
Industrialization and high traffic density cause an increasing air pollution with particulate matter. Due to high levels more and more people are forced to stay indoors. Therefore prevention is a central matter in the context of healthy ventilation.

Since 2008 we are conducting research on a highly transparent functional mesh aiming at:

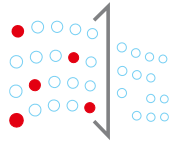
- a significant reduction of the incoming, noxious particles,
- simultaneously ensuring the highest possible ventilation and light incidence
- and a clear and unclouded view.

Therefore we do not hesitate to find new approaches to test the effectiveness and the efficiency of our meshes.

The Indoor Climate Index is an evaluation of the mesh quality, which for the first time takes into account all the factors of an optimal protection mesh: effective particle protection plus high light and air passage.



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## The meshes with particle filter technology (PFT)

*5plus dust evo and 5plus dust evo forte are an electrostatic protective shield. They are charged by air friction and therefore their effects are reinforced. This causes an efficient reduction of the particle penetration.*

*The particle protection effect is based on a bicomponent technology, registered for patent by trittec, consisting of fine yarns with a special hydrophobic coating.*



**5plus** particle protection mesh  
*Clean air. Breathe freely.*





**Indoor climate index\***  
**89** points  
5plus dust evo

**Indoor climate index\***  
**90** points  
5plus dust evo forte

Advantages	5plus dust evo	5plus dust evo forte
effective fine particle retention:	+ 63,5 % <sup>1</sup>	+ 74,6 % <sup>1</sup>
effective pollen retention:	+ 66,4 % <sup>1</sup>	+ 92,8 % <sup>1</sup>
transparency:	77,0 % <sup>2</sup>	67,0 % <sup>2</sup>
ventilation: <small>3,2 m/s at 0,11 mbar differential pressure</small>	11.000 l <sup>3</sup>	7.400 l <sup>3</sup>
brilliant view		
mesh size	1,1 x 1,0 mm	0,7 x 0,7 mm

## Improve your quality of life.

- optimal ventilation & high light incidence
- effective protection against insects, pollen & fine particles
- high tech material with high tensile strength & form stability
- practically invisible
- insertable into every insect screen
- easy handling & maintenance
- weather-resistant

<sup>1</sup> The value was measured in comparison to an open window on the basis of Arizona fine dust according to ISO 12103-1 A1 respectively birch pollen (5plus dust evo) and grass pollen (5plus dust evo forte).

<sup>2</sup> open area

<sup>3</sup> (l/m<sup>2</sup>s at 30 PA) according to EN ISO 9237, +/- 5% deviation possible

## High performance.

trittec broke new ground with 5plus dust evo and is the first insect screen provider dealing with the subject of particle protection and preventive screens who developed a screen not only against insects but also against pollen and particulate matter. In the development of 5plus dust evo forte trittec gave priority to the pollen and dust retention of the screen. Due to its smaller mesh size compared to 5plus dust evo trittec succeeded in improving the retention values without significant losses in optics or light and air passage.

\* Indoor climate index =  $\frac{\text{light incidence in \%} \times (\text{particle retention in \%} \times 2)}{\text{differential pressure in mbar} \times 1.000}$

## Convincing efficiency.

All test results from our laboratory confirm the groundbreaking efficiency of our meshes. These results have been tested and approved by independent authorities. Improve your life quality with our particle protection mesh.

www.blauer-engel.de/luz34

