



Watch our product video!

Transpatec®

Innovation that drives success

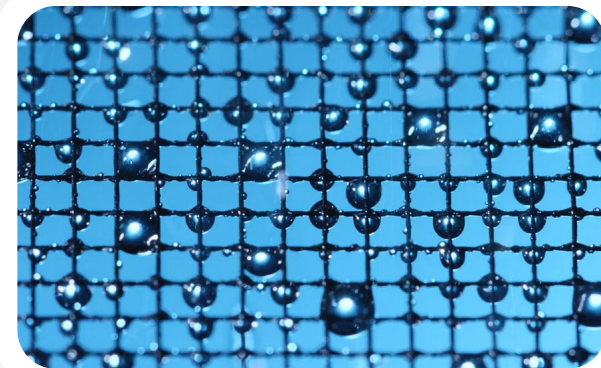
What sets us apart



Our fabric is **80% open**, exceeding the industry standard by 15% and the best fiberglass fabric by 7%. This ensures a well-ventilated environment.



Despite the open structure, our screens are **more durable**, thanks to an additional, binding thread.



Our fabric is **naturally dirt-repellent**, allowing rain and airflow to wash away dust and dirt.

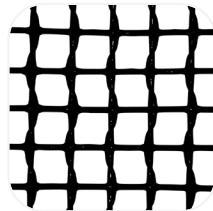


Our patented fabric*



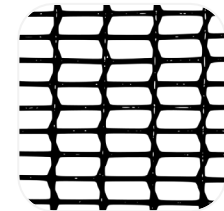
Transpatec® TP (Art. No.1258)

Our classic fabric provides maximum light transmission and air permeability.



Transpatec® TFM (Art. No.1260)

Transpatec® Fine Mesh offers additional protection against small insects.



Transpatec® TFP (Art. No. 1257)

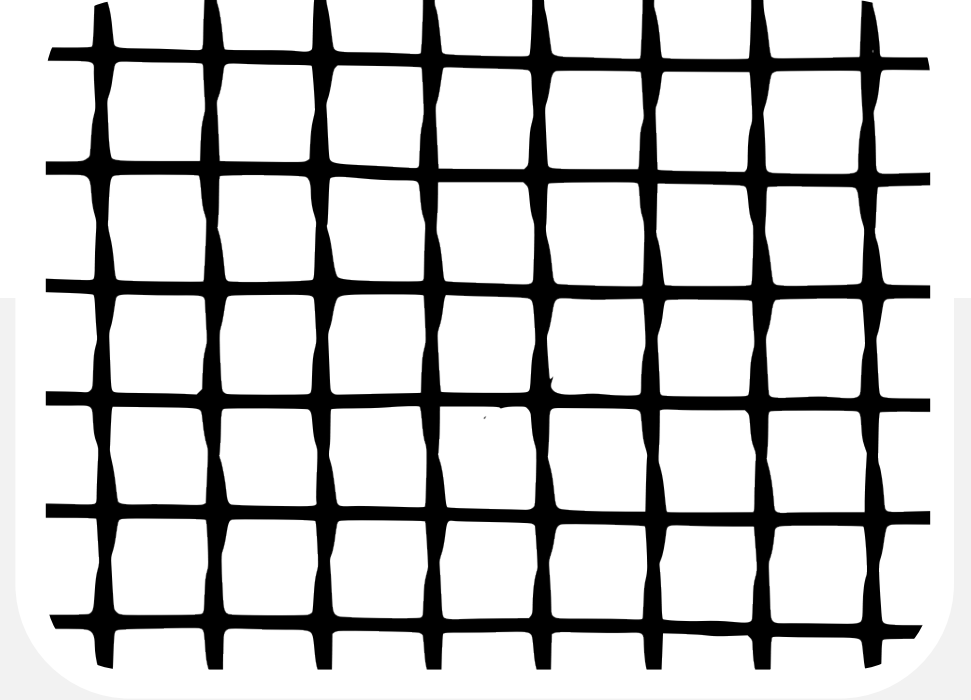
Transpatec® Polltec features a triboelectric coating for enhanced pollen protection.

Transpatec® TP Art. No. 1258



Warp and weft threads (Ø 0.13 mm) are secured with an ultra-fine binding thread (Ø 0.06 mm), creating a unique fabric structure that enhances both performance and durability.

| | |
|-------------------------|---|
| Color | Black |
| Thread Diameter | 0.13 / 0.15 mm |
| Mesh Size | 1.27 × 1.34 mm (20 × 19 mesh/inch) |
| Binding Thread | 0.06 mm |
| Open Fabric Area | 80% |
| Air Permeability | 3.2 m/s at 0.12 mbar Δp (zero value of the testing facility 0,10 mbar) |

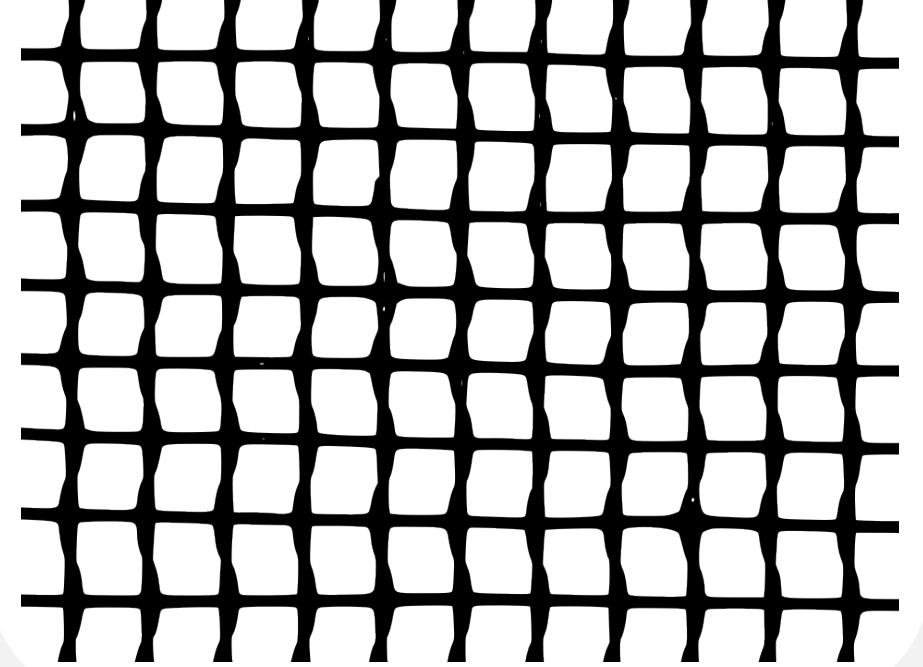


Transpatec® Fine Mesh (TFM) Art. No. 1260



With the same structure as our classic Transpatec®, this fine-mesh version offers reliable protection against even the smallest insects, including gnats, blackflies, sandflies, and no-see-ums.

| | |
|-------------------------|---|
| Color | Black |
| Thread Diameter | 0.13 / 0.15 mm |
| Mesh Size | 0.70 × 0.70 mm (36 × 36 mesh/inch) |
| Open Fabric Area | 65% |
| Air Permeability | 3.2 m/s at 0.15 mbar Δp (zero value of the testing facility 0,10 mbar) |

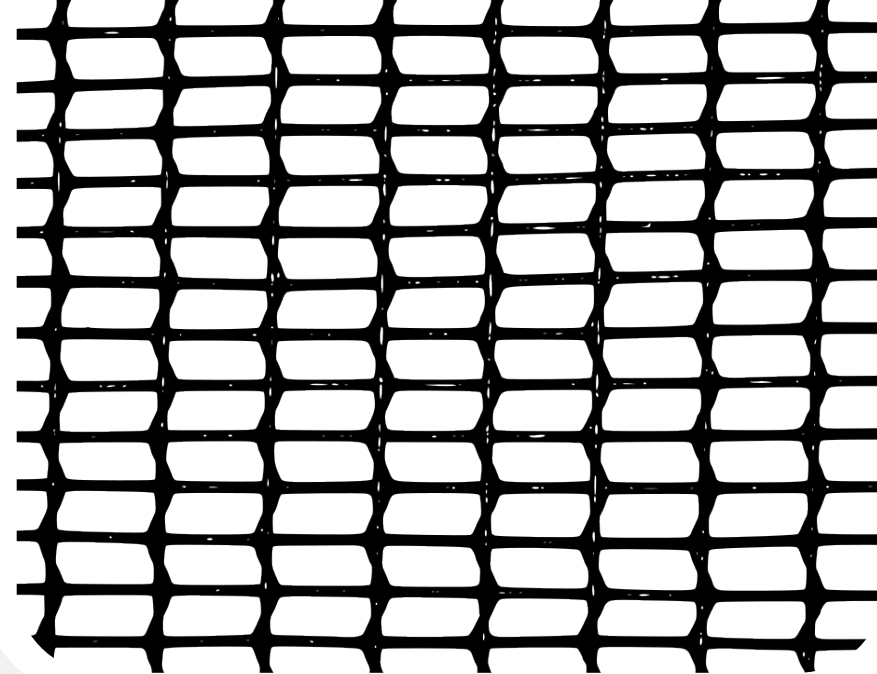


Transpatec® Polltec (TFP) Art. No 1257

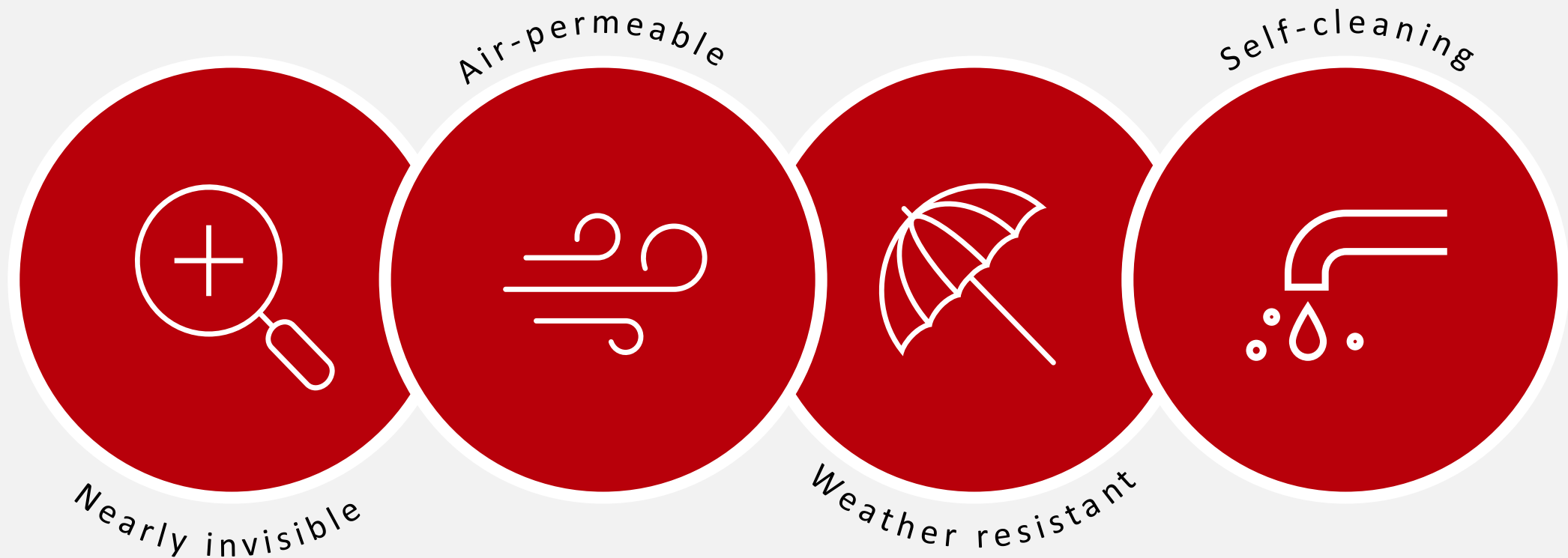


Built on the proven Transpatec® fabric structure, this type features a triboelectric pollen protection coating and an optimized mesh size. It provides superior protection with high airflow and visibility.

| | |
|-------------------------|---|
| Color | Black |
| Thread Diameter | 0.13 / 0.15 mm |
| Mesh Size | 1.27 × 0.56 mm (20 × 45 mesh/inch) |
| Open Fabric Area | 65% |
| Air Permeability | 3.2 m/s at 0.15 mbar Δp (zero value of the testing facility 0,10 mbar) |



Advantages



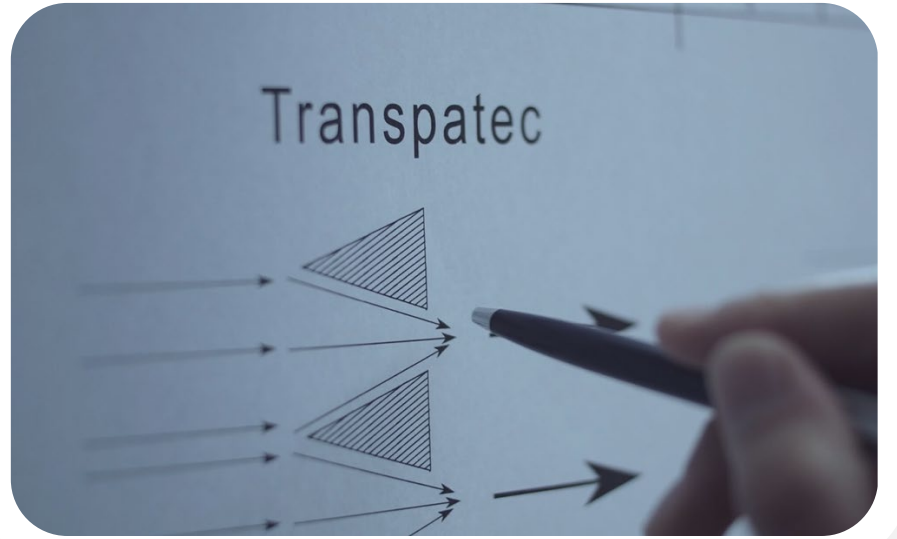
Exceptionally transparent

- > An 80% open fabric structure enables optimal light transmission, far exceeding the 65% industry standard.
- > The black color of the fabric enhances contrast and visual clarity.
- > Light refraction from the binding thread reduces mesh visibility.
- > Precise mesh alignment ensures uniformity and minimizes distortion.



Remarkably air-permeable

Transpatec® delivers approximately 140% higher air permeability than standard fiberglass fabric.



- > With 80% of its surface open, the fabric allows for free airflow, minimizing resistance and supporting effective ventilation.
- > The textile is engineered with a precise thread pattern that guides airflow smoothly across the surface, preventing vortex formation.

| Material | Differential Pressure* |
|---------------------|------------------------|
| Transpatec | 0.12 mbar |
| Standard fiberglass | 0.17 mbar |

* Measured Differential Pressure at 3.2 m/s
Zero value of the testing facility 0,10 mbar

Weather and tear resistant

Transpatec® offers significantly higher durability compared to standard fiberglass fabric as shown after a 5-year weathering simulation.*



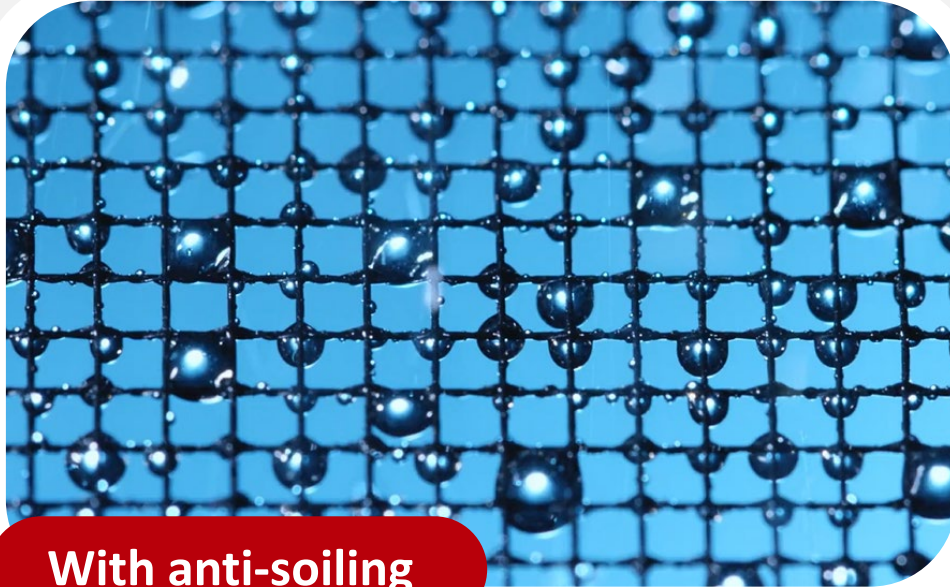
Transpatec® after 5-year weathering simulation

- Tear resistance: 123 (N/25 mm)
- Smooth surface
- No weathering marks visible



Fiberglass after 5-year weathering simulation

- Tear resistance: 76 (N/25 mm)
- Fiberglass partially visible
- Cracks in PVC coating



With anti-soiling

Naturally dirt-repellent

Transpatec® is available with an optional anti-soiling coating that allows rain and airflow to naturally wash away dust and dirt. This keeps the mesh cleaner for longer and reduces maintenance.

Our story

01 Founded in 1836, Ettlin is one of Germany's oldest textile manufacturers. With nearly 200 years of experience, we continue to evolve by combining deep-rooted craftsmanship with modern textile manufacturing tech.

02 For years, we have partnered with Neher, Europe's market leader in insect screen systems. This collaboration merges textile expertise with smart system design to create solutions that push industry standards.

03 Transpatec® was launched in 2012 after six years of joint development. Its patented weave makes it highly durable and nearly invisible, setting a new standard for insect screens.

04 Transpatec® has quickly become the leading insect screen fabric in the high-end market segment throughout Europe.



Our quality standard



Our fabric is made using a 4-step water-based coating process, free from organic solvents and plasticizers, and is compliant with OEKO-TEX® STANDARD 100.



All Transpatec® products are manufactured exclusively in Germany, ensuring superb quality and traceability.

A trusted choice

- > 90% of consumers choose Transpatec® over conventional screens for its superior quality, making price a secondary concern.
- > Compared to competitors' fabrics, Transpatec® offers sellers much higher profit margins.



Contact



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