



Transvent
– for enhanced
mat ventilation

siegling transvent
ventilation belts

So no air's left in the mat

During efficient chipboard and fibreboard production, there's no room for a weak link in the chain. Which is why we enhanced material flow in the pre-press with the extremely durable ventilation belts Siegling Transvent W01, W02 and W03.

Forbo Siegling offers a one-stop solution with all the pre-press belts you need – including perforated ones – to produce chipboard and fibreboard.

The benefits are obvious:

- One single order
- One single transaction
- One single service partner



Product range Siegling Transvent

Technical data	Article number	Total thickness approx. [mm]		Effective pull at 1% elongation (k ₁ relaxed) [N/mm width]	d _{min} Z-splice [mm]*	d _{min} woven splices [mm]*	d _{min} woven pin splice [mm]*	d _{min} HS-14 [mm]*	Permissible operating temperature [°C]	Max. width supplied [mm]	Material warp, thickness [mm]	Material werft, thickness [mm]	Weave	Air permeability [l/m ² s]	Air permeability [cfm]	Antistatic properties	ATEX category 3G3D (Zone 2/22)
Transvent W01 blue	900403	1.9	1.4	7.0	160	50	100	75	-30/+100	4500	Abralloy, 0.65+ 0.64	Abralloy, 0.65	Twill 2/2	2480 ¹⁾	375 ³⁾	●	●
Transvent W02 blue	900442	1.95	1.55	7.0	160	50	100	75	-30/+100	4500	PES/Bronze, 0.65	PES/Bronze, 0.8	Twill 2/2	2750 ¹⁾	425 ²⁾	●	●
Transvent W03 blue	900441	1.85	1.55	18.0	160	50	-	75	-30/+100	4500	PES/Bronze, 0.65	PES, 0.34	Twill 3/2	2200 ¹⁾	340 ²⁾	●	●

* without counter-bending ¹⁾dp = 200 Pa, ²⁾dp = 127 Pa, ³⁾dp = 124.5 Pa

Good ventilation

From a maximum dumping height, the ventilation belt lowers the chip or fibre mat onto the in-feed section expelling the air evenly, without expelling chips or fibres from the compressed mat.

Due to the air permeable, but strong fabric structure with sealed edges, the belt masters two key functions at the same time: it ventilates and pre-compresses.

Safe static discharge

Special warpwise-woven polyester- or bronze threads make the belt highly conductive and prevent electrostatic build-up. Hazardous situations involving a risk of fire cannot occur.

So safety is guaranteed.

No soiling

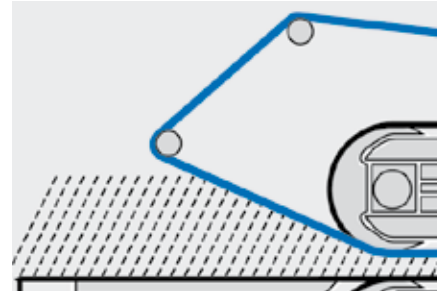
A high level of conductivity prevents chips and fibres adhering to the mat, avoiding soiling and damage to the belt.

Instead of downtimes for cleaning, productivity increases.

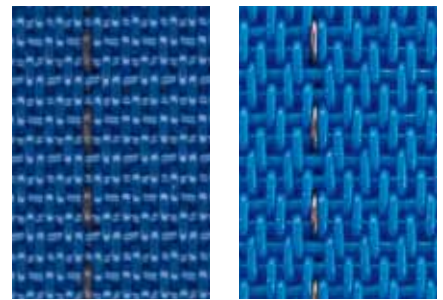
Quick fitting

Thanks to Forbo Siegling's proven splicing methods, the ventilation belt can be fitted without dismantling the pre-press. Therefore, line downtimes are negligible.

The belts are fast to exchange, reducing fitting time to a minimum.

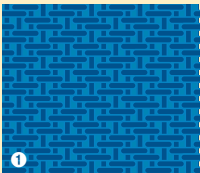


Ventilation and pre-compression belt in chipboard and fibreboard manufacture. The chip mat is pre-compressed while conveyed to the press.



Siegling Transvent: a smooth surface, extremely air permeable, flexible and conductive.

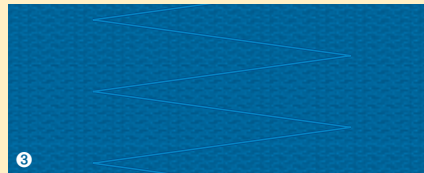
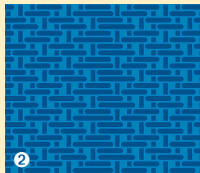
Splicing methods



Woven splices

Woven splices are the perfect solution for complex finishing jobs. With their continuous fabric structure, they leave no markings and guarantee the air will pass evenly through the belt.

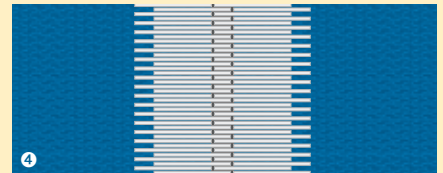
- Belts with **woven splices** (①) are supplied endless.
- The **woven pin splice** (②) is made endless on the machinery and can easily be removed. Fitting on the machinery is not necessary. Not possible on Siegling Transvent W03.



Z-splice (③)

The principle: the belt ends are punch-cut to form Z-shaped fingers which intermesh to form a very strong and safe splice. The belt is made endless without the seam marking the chip mat.

Siegling Transvent is usually supplied as an endless belt that is ready to use. For on-site fitting, the Z-splice is supplied open. The Siegling Transilon heating press which is used for spreader and prepress belts can also be used for Siegling Transvent too.



Hook splice (④)

What makes the hook splice so exceptional is its extreme strength, long service life and easy handling. It can be closed on the machinery, but does mark the chip mat slightly.

Belts made endless with a hook splice are ideal as quick-to-fit spares, but are however only suitable for temporary operation.

Siegling – total belting solutions

Committed staff, quality-orientated organisation and production processes ensure the constantly high standards of our products and services. The Forbo Siegling Quality Management System is certified in accordance with ISO 9001.

In addition to product quality, environmental protection is an important corporate goal. Early on we also introduced an environmental management system, certified in accordance with ISO 14001.



Forbo Siegling service – anytime, anywhere

The Forbo Siegling Group employs more than 2,000 people. Our products are manufactured in nine production facilities across the world. You can find companies and agencies with warehouses and workshops in over 80 countries. Forbo Siegling service points are located in more than 300 places worldwide.