



Tectura

Textile Solutions for Industrial Hall Construction

Tectura

Customized textile solutions for industrial applications

Tectura – these are custom-made textile systems for the construction of industrial halls and warehouses. Large facade openings can be easily closed using lightweight textile solutions. Warehouses are managed efficiently, goods and materials are protected cost-effectively, while fresh air is supplied from outside. Those who rely on Tectura remain flexible. If a dry storage facility needs to be expanded or a new access point created at short notice, this can be done very quickly with lightweight textile solutions. The range of textile

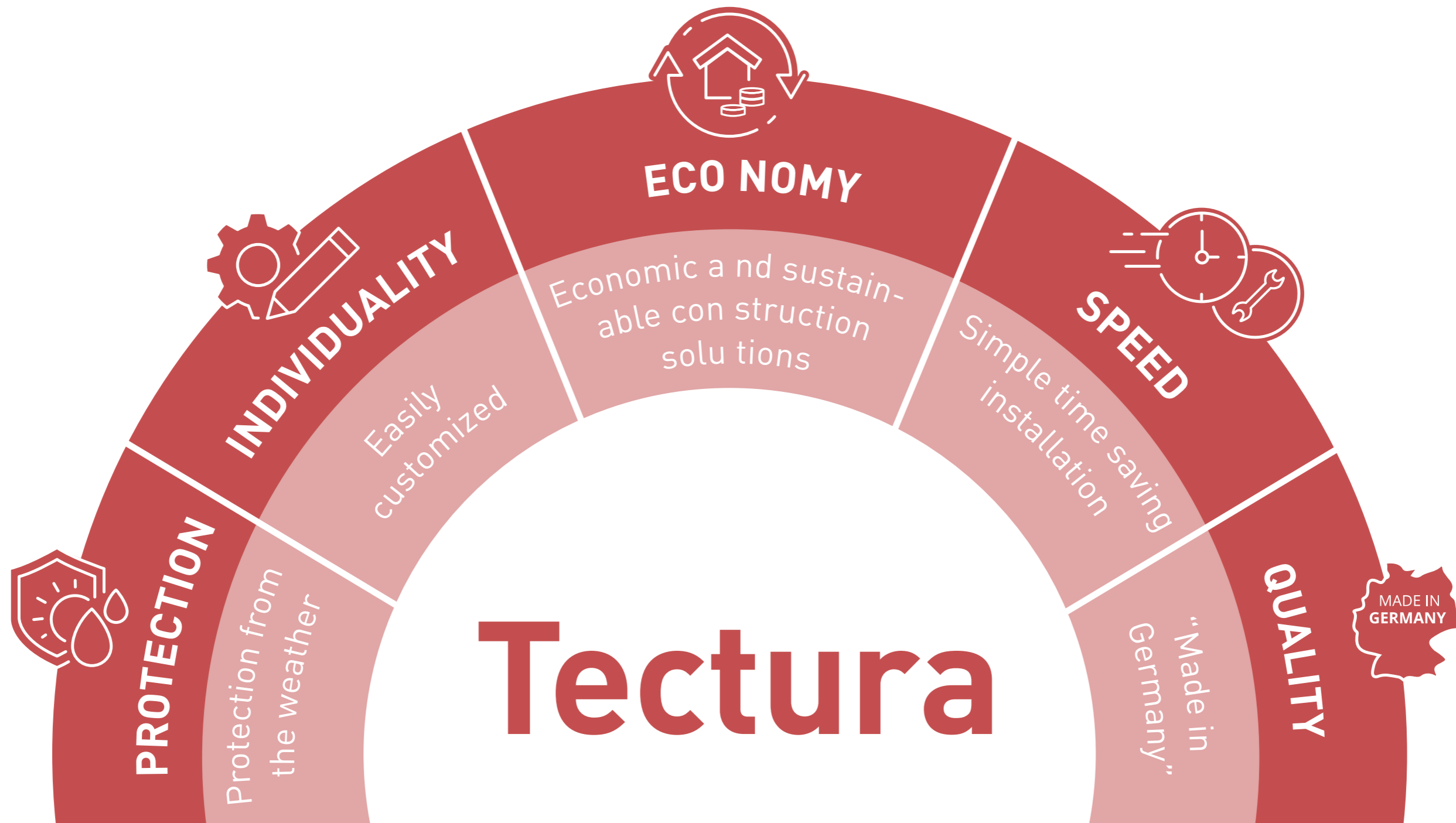
gates, fronts and facades are made to measure. In addition to the choice of materials, there is also the option of having the textile fabrics printed. Thanks to the economical design and the high level of maintenance, any damage claims can be handled quickly and cost-effectively. Due to their lightweight construction, Tectura solutions do not have to meet high structural requirements. Elaborate substructures or pre-installations are not necessary.

Textile lightweight construction for industrial warehouses and halls

For a wide range of applications, we offer sustainable and economical industrial hall projects with Tectura lightweight solutions. The Tectura solutions reliably protect against the weather and can do without heavy components. Installation is straightforward and time-saving – giving you planning security for the implementation of your next building project. All Tectura

systems can be easily maintained and repaired if necessary – a big plus in terms of cost-effectiveness.

With your requirements, you as the client are the focus. The Tectura product portfolio and its possible applications are as diverse as your requirements.



Tectura Folding Front

The front for large gate openings and passages

With the Tectura Folding Front, you can fit openings 20 m wide and 10 m high - indoors or outdoors. A folding front makes perfect sense, if you are an industrial, commercial or trading company and you would like to protect your machines or cold storage halls against the effects of weather.

Technical structure

The folding door is opened from the bottom up, gathering at the hangings. You only need to allow 20 cm of space for the folding process - plus the space required for the side guide rails. Additional stability and durability are provided to the high-frequency welded PES/PVC fabrics by welded-on cross belts. The fabrics are available in different materials and colours.

Drive and control

400-volt plug-on motors or 230-volt tubular motors set the tarp roller door in motion. As a cost-effective alternative, a manual drive with manual shaft drive (HWA) is available. Optionally, the front can be equipped with a radio remote control, so the folding door can be opened or closed from a greater distance, for example, from a vehicle.

A built-in safety edge ensures full working safety. Depending on the choice of the engine manufacturer, the front is equipped with two different controls. Both controls guarantee simple and safe operation via integrated keys with defined commands for up, down and stop.

If you would like to additionally protect the drive unit from the weather, a weather protection cover is also available.

A steel winding shaft and lateral aluminium guide rails ensure safe opening and closing even under high wind loads (up to wind class 3), and the sealing lips on the guide rails keep out drafts. The gate lock on the folding front is magnetic, which guarantees complete closure.

✔ Suitable for **daily opening and closing**

✔ **Long service life** due to robust technology

✔ **Economical solution** for large openings

✔ **High wind load absorption**

✔ **No downtime** in case of damage

✔ **Many customization options**

Application	<ul style="list-style-type: none"> Inside Outside
Wind load	Wind class 2 (higher wind classes on request)
Dimensions	20 m width x 10 m height (larger dimensions on request)
Opening time	4 m ~ 30 sec.
Space requirement drive	~ 20 cm x 20 cm
Gate fall	Height: 11 cm per 100 cm opening height + 25 cm overhang strip Width: ~10 cm
Drive	<ul style="list-style-type: none"> Plug-on drive: 400 V /50 Hz Tubular motor: 120 Nm /50 Hz HWA: 120 Nm manual drive with manual chain
Security	<ul style="list-style-type: none"> Safety contact strip Slip-on motor with gear breakage protection Automatic magnetic gate lock
Radio remote control	Only in combination with the Safety contact strip
Material	<ul style="list-style-type: none"> PVC coated PES fabric Wind protection net for fresh air ventilation Various colors available
Construction	<ul style="list-style-type: none"> Steel winding shaft Aluminium guide rail and spare parts Horizontal HF-welded PES/PVC fabrics



References for the Tectura Folding Front

Would you like to learn more about the areas of application of our folding front and get a more detailed picture of our products? Then scan the QR code and read our job report on a project we have implemented.



Tectura Stabidoor

The gate for warehouse door openings

The Tectura Stabidoor is designed for indoor and outdoor passageways in light or cold storage warehouses. The tarpaulin roller door opens and closes up to a width of 6 m and 6 m in height, very easily, and protects the hall contents from the weather.

Technical structure

The foil roller shutter is opened from the bottom to the top, during which the curtain rolls up. The door and technology take up very little space - making the Stabidoor the perfect solution for rental halls or temporary storage facilities. Thanks to horizontal tubes welded PES/PVC fabric, the door achieves high stability and wind load absorption. Various materials and colours are available, as well as optional "viewing windows" made of PVC clear film.

Drive and control

The sectional door can be opened and closed with either a 400-volt slip-on drive or a 230-volt tubular motor. A manual drive with hand chain is available as a low-cost alternative. For both motor types, a 4-channel radio remote control can be added as an option - a convenient addition for operating the draft shield gate even from greater distances.

Depending on the motor selection, control is performed in different ways. Both controls are easy to operate and function reliably and with low maintenance via integrated up, down and stop command buttons. A protective cover protects the drive technology from the weather.

A magnetic safety device that automatically locks and unlocks the door ensures safe opening and closing even under high wind loads. The laterally sealed aluminium guide rails keep drafts out.

Pre-assembly and installation

Thanks to factory pre-assembly, you can complete your hall project quickly and easily: The door is assembled and factory-tested in HUESKER's production facility. The upper and lower end positions are set. We then deliver your new door complete in one package directly to site. Here, the installers can easily attach the foil door to your weather protection or machine hall and put it into operation. Thus, the installation of your door system succeeds inexpensively and safely, with assembly errors almost impossible.

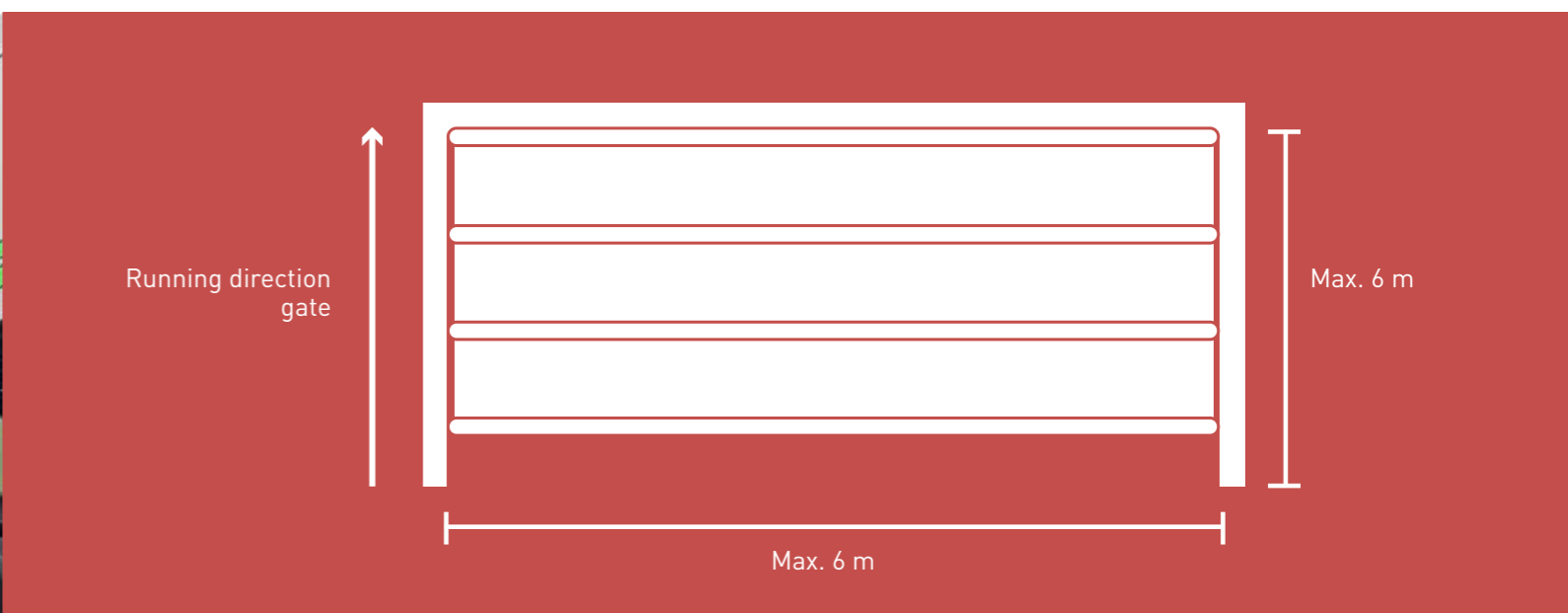
- ✓ **Optimal for passage with vehicles**
- ✓ **Fast and cost-effective final assembly due to pre-assembly ex works**
- ✓ **Storm protection - opening and closing possible under high wind loads**
- ✓ **Weatherproof and draught-free closing of door openings**
- ✓ **Customizable with different fabrics**

Application	<ul style="list-style-type: none"> ▪ Inside ▪ Outside
Wind load	Wind class 4 (higher wind classes on request)
Dimensions	6 m width x 6 m height
Opening time	5 m ~ 30 sec.
Space requirement drive	~ 36 cm width x 52 cm height
Drive	<ul style="list-style-type: none"> ▪ Plug-on drive: 400 V /50 Hz ▪ Tubular motor: 120 Nm /50 Hz ▪ HWA: 120 Nm manual drive with manual chain
Security	<ul style="list-style-type: none"> ▪ Safety edge ▪ Slip-on motor with gear breakage protection ▪ Automatic magnetic gate lock
Radio remote control	4-channel handheld transmitter (without safety barrier)
Material	<ul style="list-style-type: none"> ▪ PVC coated PES fabric ▪ Wind protection net for fresh air ventilation ▪ Various colours available ▪ PVC clear window: ~ 54.5 cm to 79.5 cm height ▪ Textile drive cover
Construction	<ul style="list-style-type: none"> ▪ Steel winding shaft ▪ Aluminium guide rails ▪ Horizontal HF-welded PES/PVC fabrics



References for the Tectura Stabidoor

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Tectura Textile Facade

The hall and facade cladding for industrial halls

Textile hall coverings reliably protect against prying eyes and the effects of the weather. They are ideal for the uncomplicated closing of large openings in open-air or cold storage halls. A substructure, as required for trapezoidal sheets, is unnecessary. The textile facades are made to measure and delivered ready for installation. Thanks to the individual production of each facade, you can choose from a variety of shapes and fabrics.

Fabrics for all requirements

Tectura offers the right fabric for every need. This means that different wind-braking effects can be achieved; for example fabrics with high permeability are more suitable for wood storage areas. When privacy and weather protection with simultaneous use of daylight are required, textile cladding is ideal.

Fastening to the building

The tensioning version is mounted on to the rails and ratchets directly to the building structure. This ensures permanent and wrinkle-free alignment and bracing. The Tectura system can be used in a modular way. In case of structural changes or extensions, flexible retrofitting is possible at any time. Our proven concept for smooth and fast assembly ensures that your construction project is completed quickly.

- ✓ Custom made to measure and shape
- ✓ Visual and weather protection with simultaneous use of daylight
- ✓ Low cost and low maintenance hall facade
- ✓ Flexibly adaptable to structural changes
- ✓ Durable and wrinkle-free cladding
- ✓ Uncomplicated and fast assembly

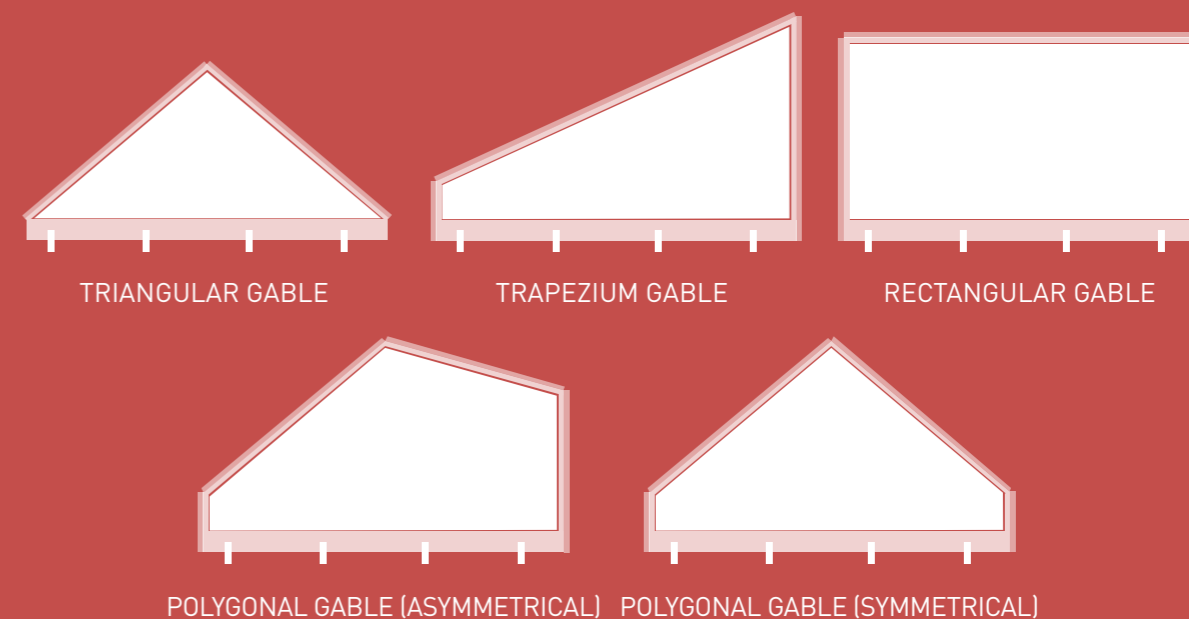


Application	<ul style="list-style-type: none"> ▪ Inside ▪ Outside
Security	Permanently stable alignment due to aluminium keder rails and tension ratchets
Mounting	Directly on the building structure without sub-structure
Material	<ul style="list-style-type: none"> ▪ PVC coated PES fabric ▪ Wind protection net for fresh air ventilation ▪ Various colours available
Construction	<ul style="list-style-type: none"> ▪ Flexible system design ▪ Easy dismantling in case of structural changes ▪ Permanent and wrinkle-free alignment



References for the Tectura Textile Facade

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Material overview

High quality fabrics for all applications







Mesh PES-PVC 73 52.144

PES mesh fabric with PVC coating
Surface dimensions: **approx. 250 g/m²**
Wind breaking: **approx. 80 %**
Colours:

		
Black Item no. FW52. 1445FRA	Dark green Item no. FW52. 144DGD	Grey Item no. FW52. 144GFRA

Tarpaulin PES-PVC 6.5





PES mesh with PVC coating on both sides, Surface dimensions: **approx. 650 g/m²**
Colours:

		
Brown Item no. FW50. 149BFR8.8A	Black Item no. FW50. 149SA	Beige Item no. FW50. 149BEA
		
Grey Item no. FW50. 149GFRA	White Item no. FW50. 149WFRA	Dark green Item no. FW50. 149DGA






Mesh PES-PVC 92 60/60-1

PES mesh fabric with PVC coating
Surface dimensions: **approx. 450 g/m²**
Wind breaking: **approx. 92 %**
Colours:

		
Black Item no. FW60/60-1SFRA	Beige Item no. FW60/60-1BEFRA	Dark green Item no. FW60/60-1DGFRA
		
Grey Item no. FW60/60-1GFRA		

Tarpaulin PES-PVC 6.5 Transparent



PES mesh with PVC coating on both sides, Surface dimensions: **approx. 680 g/m²**
Colours:

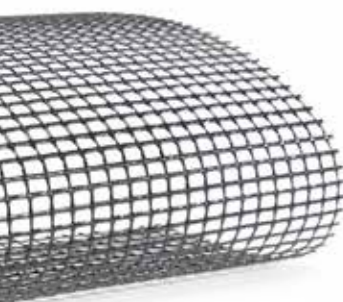
		
Black/transparent Item no. FW50.149S/TRA	White/transparent Item no. FW50.149TR-FRA	Dark green/transparent Item no. FW50.149GR-TRFRF



Mesh PES-PVC 40/40

PES mesh fabric with PVC coating
Surface dimensions: **approx. 360 g/m²**
Wind breaking: **approx. 35 %**
Colours:

	
Black Item no. FW 40/40-4SA	Dark green Item no. FW 40/40-4WGA



Lightweight construction in industrial halls

Advantages and potentials of textile lightweight construction

System lightweight construction has many advantages: Changes can be easily implemented at any time. Rooms can be flexibly enclosed or closed off. The lightweight construction leads to weight savings on the building structure. And because the structures can be detached again, it is possible to recycle them by type when the structure has reached the end of its service life. Multi-functionality on all levels!

The consistent further development of technical textiles has considerably expanded their range of functions. The combination of textiles and functional fabrics results in highly functional and extremely lightweight building envelopes that effortlessly meet the specified building requirements - a perfect blend of minimal weight per unit area and high mechanical load-bearing capacity, while at the same time saving materials. The high quality standard is furthermore ensured by modular construction and prefabrication, ex works.

The implementation of hall construction projects using a partially textile construction method offers, compared to solid construction, many ecological and economic advantages. Solid construction involves high energy consumption during production and transport. In addition, in order to be able to support the weight of the facade, the load-bearing structure of a solid building must be reinforced, which in turn leads to increased material usage.



High **degree of individualisation**



Increased efficiency from the building



Reduction of construction time due to fast assembly



Ensuring production quality through prefabrication



Improvement of the working environment of employees



Easy to transport and reduction in deliveries



High **planning and cost security**



Possibility of **single-variety recycling**



Weight reduction for facades compared to solid construction

Tectura Systems

Project examples



Folding fronts for soccer hall

D – Ihlow | New construction of a soccer hall of the TSV Friesenstolz Riepe for all-weather training – Tectura folding fronts on all four sides of the hall with close-meshed fabric in grey provide optimum ventilation and simultaneous weather protection – Operation by means of electric drive – Relocation of the drive unit to the inside ensures an attractive external appearance – Additional locking is not necessary despite the large openings.



Textile facade on wood storage hall

D – Haselünne | Cladding of the warehouse of E.A. Vehmeyer OHG in Haselünne with suitable weather protection – Good ventilation and simultaneous post-drying of the stored goods – Large area bracing with Tectura hall and facade cladding in the eaves and gable area – Mesh size of the material ensures sufficient air exchange – Simultaneous protection against wind and rain – Wind load absorption by horizontal bracing with sewn-on PES webbings over the entire width.



Stabidoor and folding front on a fertilizer warehouse

D – Lähden | Equipping the Raiffeisen Ems-Vechte warehouse with door systems mainly of non-corrosive components, as corrosive dust leads to impairment of functionality in the work process – Installation of Tectura Stabidoors and a folding front – Combination of aluminium guide rails, textile door hangings, and polyamide guide rollers for stabilizers ensures a long service life in this area of application – protection of the external fertilizer mixing system from wind and rain by a folding front 8 m high and 3 m wide, also equipped with non-corrosive components.



Textile facade and folding front on machine hall

D – Buldern | Protection of a machine hall of the contractor Stade in Buldern against weather issues with simultaneous use of daylight – Covering of the gable as well as eaves side with textile facade – Fastening with aluminium keder rails and ratchets directly to the building structure – Printing of the gable with company logo – Installation of a folding front in the large door opening – Daily opening and closing possible even with high wind loads – Operation by means of electric drive – Cost-efficient protection of the machines with simultaneous supply of fresh air from the outside.

HUESKER

Your partner for textile solutions in industrial hall construction

HUESKER is a company with over 160 years of history. We have been developing innovative textile solutions for hall construction for many years. Our customers are at the centre of everything we do. We tailor individual and precise fitting solutions for your challenges. Here you can see our main services to make your work easier. How do you envisage our collaboration? Our professional staff are looking forward to meeting you and are always available to discuss your requirements.



Together we realize economical construction solutions for industrial halls.

Production

We produce and commission your Tectura solution in our German production facilities, drawing on over 160 years of experience in textile surface manufacturing. We emphasise durability and reliability in our products, so you can focus on your core business.

Customisation

The core of our service offering is the customised manufacture of your product. You decide the size, colour and technical design, we will implement it accordingly. As a result, you get a product that exactly meets your requirements.

Mounting

To ensure that everything works properly, all products are installed by experienced assembly personnel. Take advantage of this on-site service to ensure smooth product operation from the start.

Maintenance service

At your request, we will gladly take care of the annual maintenance of your Tectura products. This ensures a particularly long, trouble-free service life.

Consulting & Planning

Our expert staff will bring their past project experiences to your project and will be happy to advise you on the planning of your new construction or renovation. We are happy to coordinate with your architect - for a smooth planning process.



HUESKER Synthetic is certified to ISO 9001 and ISO 50001.



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