

How **quiet** ...

**loud** can be!



**ThomTek**<sup>®</sup> Perilux



MADE IN  
**GERMANY**



**ThomTek**<sup>®</sup> Perilux

Noise  
reduction up to  
**29 dB**

# ENJOYING THE NICE SIDES OF LIFE

WE WANT TO PROTECT YOUR HEALTH  
AND WELL-BEING

Noise and sight protection fencing system

**ThomTek®** Perilux was developed as a sound-absorbing construction that considerably reduces the level of sound transmission and to act as a safeguard against noise pollution, which can cause hearing damage, stress, high blood pressure and sleeping disorders.

In addition to the main task of protecting living areas from noise pollution, **ThomTek®** Perilux forms an attractive part of the surroundings and is suited to any architectural environment. The individual design of the fence system offers a wide array of application options for counteracting traffic noise, as well as construction

and industrial noise. Thanks to its high durability and high resistance under any weather conditions, it not only increases the value of real estate, but also the quality of life of residents.

Convince yourself of the wonderful wood feel, the good material properties and the easy installation. Look forward to an all-round feeling of well-being and added time and living quality at your favourite spot.

## Noise examples

75 dB	Normal traffic noise
85 dB	Noise limit for workplaces
90 dB	Truck
100 dB	Jackhammer
110 dB	Chainsaw
130 dB	Jumbo jet taking off in close proximity

# NATURAL AND INDIVIDUAL



## WPC profiles

WPC means „Wood Polymer Composite“. It consists of a combination of wood fibres and thermoplastic binding agents that are extruded and thereby fused together.

With 70 % domestic wood, the wood content is very high. The colours are created by intermixing environmentally friendly pigment.

**70 %**  
domestic  
wood

Available in  
**six**  
colours

The colours shown may deviate from the original.

## Steel profiles

The hot-dip galvanised steel profiles are powder-coated using an absolutely environmentally friendly process. The powder coatings are made by means of the thermal curing of dry, free-flowing powder free of binding agents. The powder is applied using spray guns in which the powder becomes electrostatically charged. Multiple work cycles guarantee an ideal adherence to zinc.

	GRAPHITE
	BLACK
	DARK GREY
	DARK BROWN
	GOLD
	FOREST GREEN
	SAND
	RUST BROWN



# EASY AND VARIABLE

## ThomTek® Perilux is simply to install

The installation of **ThomTek®** Perilux is simply ingenious. The maximum distance between posts is 3 m, but is otherwise absolutely variable. The construction height can be selected as needed. The dimensions of the posts and foundations are based on the construction height.

The graduation is determined by the noise protection profile width and the infinitely variable installation of the U mounting rails also allows for height differences based on terrain contour. The noise protection profiles are cut to length using standard wood tools and require no further processing. The use of compribands allows for a floating, rattle-free support. As a rule, the fence must be installed so that the WPC profiles do not touch the ground or the floor.

## Installation instructions

### 1. DIVISION

**ThomTek®** Perilux offers the advantage that the posts can be arranged as desired. Caution: Do not exceed the **maximum axis dimensions** of 3105 mm. Standard lengths of natural material in the form of 3000 mm + 2500 mm profile. The profile is **not dimensionally stable** and must therefore be suitably trimmed on site.

Standard woodworking tools are used for the work. The profile need **not be refinished**. The distances can be divided into absolutely equal sections.

### 2. FOUNDATION

After the dividing is done, begin **setting the foundation**. System height up to 2380 mm, individual foundation of C20/25 quality, grain size 0 - 16 mm, wet earth.

**Foundation size:** d = 400 x 1000 mm, post installation in the middle of the deep foundation.

### 3. HEIGHT PROFILE AND GRADUATIONS

Installation flush and at the correct height. For the **height profile**, please note: The fence can be **graded** using the U-shaped fastening rails

in any size. On slopes of more than 5 %, reduce the regular maximum distance in such a way that the gradations do not exceed 150 mm.

### 4. LAWN CURB

As a condition for noise protection and long service life, the **ThomTek®** Perilux profiles should not be embedded in the ground. Here it is recommended that a lawn curb be installed parallel to the fence axis.

### 5. SUPPORT POSTS

To prevent the profiles from **sagging** if the field length is more than 1500 mm, install a support post in the middle/axis of the field.

Foundation size = 200 x 200 x 400 mm

After the cement has hardened, and before the wood profile is installed, equip the support post with an adjustment mechanism.

### 6. U-SHAPED FASTENING RAILS

Then install the U-shaped fastening rails at the correct height and centrally between the posts. The U-rails reflect the system height and are screwed on with self-cutting stainless-steel

façade screws in the holes already prepared in the posts.

During the same step, screw stainless-steel angle to the profile as an overlay.

### 7. CUT

Then cut the **ThomTek®** Perilux profile to size. The length depends on the actual clear distance between the posts. The profile must be 25 mm shorter to ensure length expansion.

### 8. COMPRIBANDS

Stick the compribands on from both sides.

### 9. SLIDE THE PROFILE

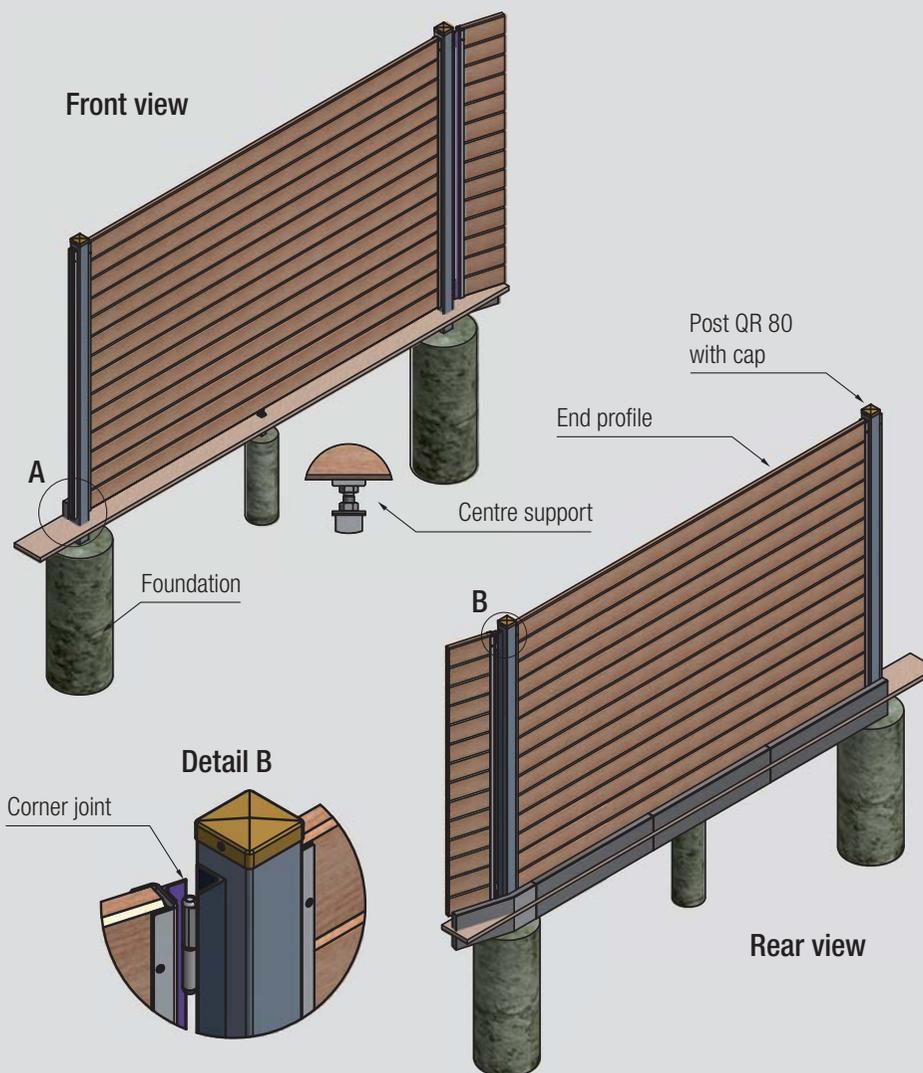
Then slide the profile in. At this point, work quickly, because the compression strip swells to fulfil its purpose. This process depends on the weather. The colder it is, the longer the swelling takes. However, there is time to slide the profile in carefully.

## 10. CORNERS

Corners that vary by 90 degrees are set with the specially developed variable corner joint. Standard corners can be made at the post.

## 11. WALL CONNECTIONS

The wall connections or combinations with other fence systems, such as gabion walls, can be made using the U-rails.



# EASY CLEANING

**ThomTek® Perilux** is practically easy to care

The cleaning of the WPC profiles can be done easily with water. If very dirty, a high pressure cleaner with max. 80 bars can be used. The use of a steam cleaner is not recommended. The high pressure cleaner shall be directed to the fence at the distance of 30 cm. Don't use any detergents with solvent. Due to the proportion of polymer, the WPC profiles are more or less carefree. There is no need to paint or to oil the fence in order to extend the service life.





## Customer references

"It was important to me that the length of the posts could be 2.5 m. I liked it very much. Since we have had **ThomTek**® Perilux, I don't really notice that the people go behind the fence. We are happy about our new fence. All our friends and neighbors are excited about this system."

*Mr. Billen, Mönchengladbach*

"We live directly at the heavy traffic cycle path. The hedge we have there didn't provide us with the good noise protection. Our friends recommended us to install **ThomTek**® Perilux. We tested the noise reduction at the test fence and finally decided to mount the fence. If somebody cries, we cannot fail to hear it. But we are very happy with the noise reduction"

*Ms. Müller-Steffan, Korschenbroich*

"We enjoy the fence every day. This is something special. All our friends and relatives are enthused about it.

This fence is luxurious."

*Ms. Schlossarek, Hückelhoven-Ratheim*

[www.ThomTek-Perilux.de](http://www.ThomTek-Perilux.de)