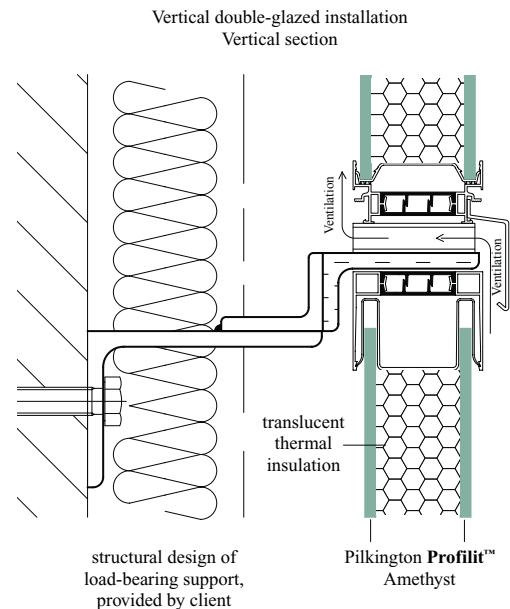




Energy sustainability: the space between the double-shell Pilkington **Profilit™** elements is filled with translucent thermal insulation inserts. The varying colours of the inserts enable the company name to be displayed as a continually repeating binary code.



## Material tension field

### Workshop building in Soteg S.A. complex, Esch-sur-Alzette (L)

For its new company headquarters, the Luxembourgian energy provider Soteg S.A. opted for a redeveloped industrial area on the site of a former gasworks close to the town of Esch-sur-Alzette. In addition to the existing buildings - a central gasworks and pump house - a new, three-storey building for a workshop was erected, which the architects set in deliberate stylistic contrast to the industrial brick architecture of the historical buildings. The cubic workshop building is a new interpretation of the „power and technology“ theme which plays with analogies and contrasts.

As well as establishing formal dialogue with the existing architecture, the transparent shell of this giant building, which is constructed using Pilkington **Profilit™**, forms a material tension field. Another important aspect is the energy efficiency of its profiled glass façade with its use of translucent thermal insulation inserts in the area between the double-glazed Pilkington **Profilit™** elements. Various colours have been incorporated into the translucent thermal insulation inserts to provide variation in façade's inherently homogenous design. Using a binary code, the company's name is displayed repeatedly on a regular basis.

**Builder:**  
Soteg S.A.,  
Esch-sur-Alzette (L)  
**Architect:**  
Jim Clemes S.A.,  
Esch-sur-Alzette (L)  
**Installer:**  
Engstler & Schäfer,  
Schmelz (D)

**Pilkington Profilit™ glazing:**  
approx. 1,620 m<sup>2</sup> Pilkington **Profilit™** K25/60/7 Amethyst, double-glazed installation with integrated translucent thermal insulation inserts for optimum thermal insulation



The workshop building's façade is fitted throughout with Pilkington **Profilit™**, which provides a stark contrast to the redeveloped brick buildings.



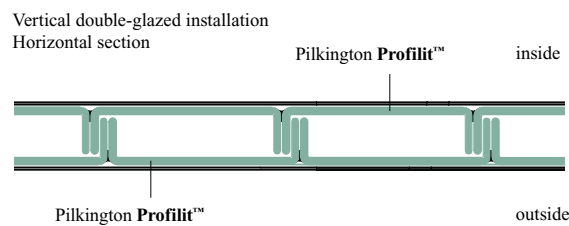
## Light, Electricity, Power

### EDF électrique transformer station, Neuilly-sur-Marne (F)

For its new building in Neuilly-sur-Marne, Electricité de France required a site which was bright, functional and appropriately designed for its high-voltage plants. Technology, energy and Pilkington **Profilit™** glazing was the preferred combination for architects, who needed a profiled glass system that combined both lighting and aesthetics economically.

The architect for the transformer station in Neuilly made a deliberate decision to use the Pilkington **Profilit™** profile glass system in order that important requirements could be met: as well as providing high daylight influx, restricted visibility of internal machinery and the industrial/technical effect of the glass elements together with the metal frames and aluminium plating were important factors in this decision. Pilkington **Profilit™** was used in all areas of the façade. The problem of potential overheating during the summer due to the ample use of glazing on the south facade was solved by the architect using a natural air conditioning system with sun blinds.

Pilkington **Profilit™**, natural daylight and energy management for the machinery building of the EDF Neuilly-sur-Marne (F).



**Builder:**  
Electricité de France (EDF)  
**Architect:**  
Loik Philippe

**Pilkington Profilit™ glazing:**  
approx. 2,000 m<sup>2</sup> K 25/60/7 wired



High daylight influx combined with restricted transparency and a functional/industrial aesthetic were decisive factors in using Pilkington **Profilit™** for the building's façade.



## Training in light

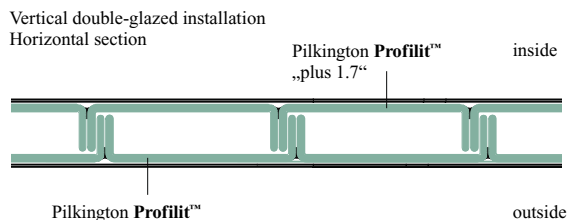
### Workshop of Kirchseeon vocational training centre, (D)

The vocational training centre in Kirchseeon offers supervised training in simple trades for young people unable to gain these qualifications on the open market. The challenge for architects was to create sufficient space for work, learning and break times for 250 instructors and apprentices.

A new, two-storey workshop was therefore built on the site of the vocational training centre in Kirchseeon, with adjoining training and changing rooms and a separate recreational area. Despite a tight budget for the project, which is being

funded by a charitable organisation, the architects have managed to find the perfect blend of low costs and efficiency. The Pilkington **Profilit™** glazing on the façade of the workshop plays a key role in this. In addition to enhanced influx of natural daylight, which significantly lowers operating costs due to reduced artificial light usage, from the point of heat insulation, its double-glazed finish with translucent thermal insulation inserts also represents an interesting and economically solution in building physics terms.

Better natural daylight for learning: The translucent façade is made from double-glazed Pilkington **Profilit™** with translucent thermal insulation inserts to create a bright and friendly learning environment.



**Builder:**  
St. Zeno vocational training centre foundation, Kirchseeon (D)  
**Architect:**  
landau + kindelbacher, Munich  
**Installer:**  
Rieser Glasbau GmbH, Nördlingen (D)

**Pilkington Profilit™ glazing:**  
approx. 1,300 m<sup>2</sup> Pilkington **Profilit™** K 25/60/7 and K25/60/7 „plus 1.7“, double-glazed installation with translucent thermal insulation

As well as providing an educational environment, low construction and operating costs were also an important part in the profile for the vocational training centre's new workshop in Kirchseeon.



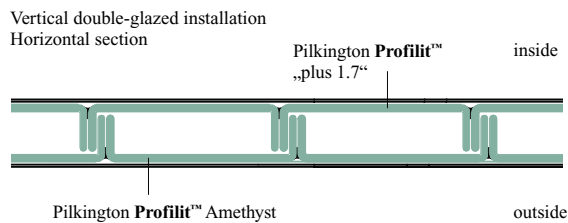
## Dynamics, Technology, Communication and Natural Daylight

### Central building, BMW plant, Leipzig (D)

The central building of the BMW plant in Leipzig was designed by the architect Zaha Hadid, for which she was awarded the „German Architecture Prize“ in 2005. The building is the communication headquarters of the BMW complex where manufacture of the current generation of BMW 3 series vehicles takes place. This dynamic and multifunctional elongated construction serves both as a connection for the chassis shop, paintshop and assembly hall and also houses laboratories, a suite of terraced offices and a works restaurant.



The transparency and industrial/technical character of the profile glass system were major factors in the architects' decision to use Pilkington **Profilit™**.



**Builder:**  
BMW AG, Munich  
**Architect:**  
Zaha Hadid Architects,  
London  
**Installer:**  
Radeburger Fensterbau GmbH,  
Radeburg-Bärwalde (D)

**Pilkington Profilit™ glazing:**  
approx. 6,000 m<sup>2</sup> of Pilkington **Profilit™** K32/60/7 Amethyst with inner shell Pilkington **Profilit™** K32/60/7 „plus 1.7“ (double-glazed installation)

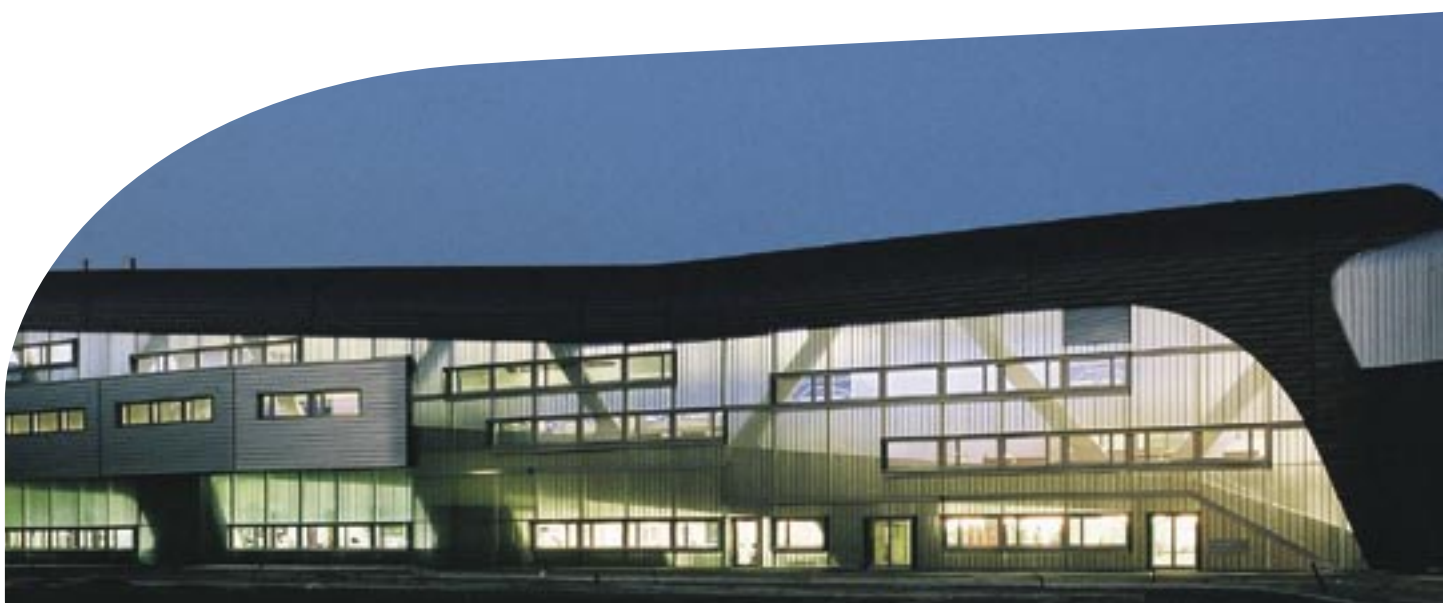
Photographer: Martin Klindtworth

The dynamic arrangement of the central building's windows and the way they are set into its façade gives expression to its industrial context. Frameless Pilkington **Profilit™** elements mounted as wall sections and up to 5.10 metres in height form a lightly-structured translucent surface into which transparent window bands have

been set to provide a ‚floating‘ effect.

Together with the aluminium profiles of the window bands and Kalzip sheeting, they provide the building's horizontal corpus with the architect's intended association of dynamics and state-of-the-art automobile technology.

The central building of the BMW plant in Leipzig: transparent window bands „float“ in the translucent Pilkington **Profilit™** façade.



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