Pilkington **Profilit™**

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The pureness of the green-shimmering shell of the building made of Pilkington **Profilit™** elements is also intended to demonstrate the quality of the company's production processes to the outside world.

Energy-efficient building shell

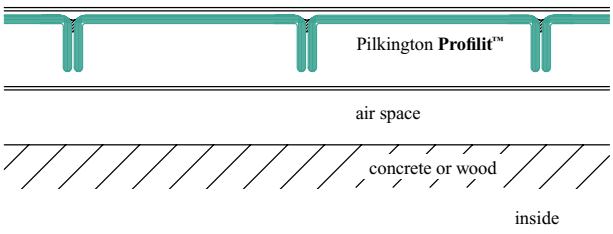
Builder:
August Faller KG,
Waldkirch, Germany
Architects:
pfeifer roser kuhn Architekten,
Freiburg, Germany
Installer:
Joh. Sprinz GmbH & Co. KG,
Ravensburg, Germany
FBS GmbH & Co. KG,
Schopfheim, Germany

Pilkington Profilit™ glazing:
approx. 2.400 m² Pilkington **Profilit™** elements, glass types K22/60/7 and K25/60/7 used alternately.

Fotos: Ruedi Faller, Basel, Suisse

Faller PharmaServiceCenter, Binzen, Germany
The Faller PharmaServiceCenter is a newly built structure housing the company's production and administrative facilities. Here, collapsible boxes for the pharmaceutical industry are manufactured subject to specific production conditions. When planning the complex, the architects attached particular importance to the energy-efficient nature of the building concept, the most complex element of which is the building shell. To this end, the outer walls were not equipped with conventional insulation but were instead covered with single-glazed Pilkington **Profilit™** elements, which were sited in front of a solid concrete wall in the production and logistics sections of the building. During the heating period, any solar energy captured by the structural glass shell is passed on to the concrete wall while the glass façade's back ventilation helps to keep the building cool in summer.
In the administrative part of the structure, a third purist façade material was used in the form of a wooden-slat pile wall. According to the architect, simulations of this building show annual energy savings of some 2 million kWh over comparable production sites run by the Faller Group.

Vertical single-glazed installation as a ventilated façade
Horizontal section



Pilkington **Profilit™**, concrete and wood - the purist, industrial choice of materials for the façade corresponds with the clear structure of the body of the building.

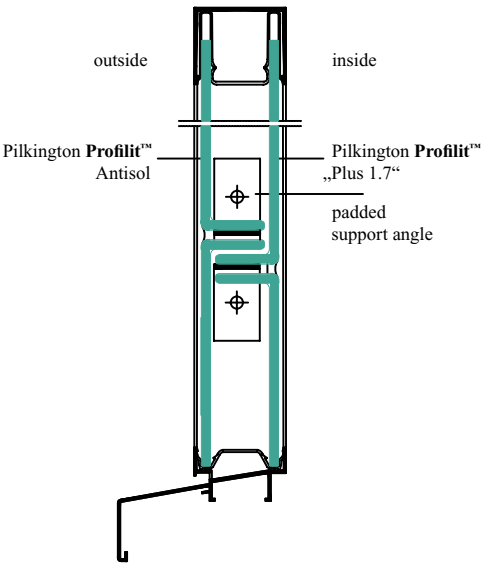
Translucent inclination

The double-glazed façade features a Pilkington **Profilit™** profiled glass with an “Antisol” coating (solar protection), a “Plus 1.7” coating (thermal insulation) and wire reinforcement.

Palazzo Aurelia, Tortona, Italy

Palazzo Aurelia in the Italian town of Tortona is the headquarters of the local motorway operator. The newly built complex also houses various offices dealing with logistics-related activities and a bank. The dominant stylistic feature of the administrative building’s architecture is its sloping façade made of Pilkington **Profilit™** elements that alternate with the vertical window areas to form dormer-like soffits that act as sun screens. Additional sun screening is provided by slat-type elements made of steel that are arranged on a per-storey basis. The horizontal, double-glazed Pilkington **Profilit™** installed in the aluminum system profiles is coated with “Antisol” solar protection on position 2. An additional thermal insulation coating on position 3 reduces energy losses. Wire reinforcements in the Pilkington **Profilit™** elements emphasize the horizontal nature of the façade’s structure.

Horizontal double-glazed installation
Vertical section



Builder:
Aurelia S.p.A., Tortona, Italy
Architects:
Studio di Architettura
Mario Virano Architetto,
Viviana Riccato Architetto &
LVM Studio Associato,
Torino, Italy
Installer:
Pragotecna, Trieste, Italy
AL. SERR. S.n.c., Italy

Pilkington Profilit™ glazing:
Façade: approx. 1.500 m² double-glazed Pilkington **Profilit™** K25/60/7 Antisol and „Plus 1.7 wired”, installed horizontally.
Interior: approx. 150 m² Pilkington **Profilit™** K25 Amethyst wired.

Just as attractive during the day as at night - the sloping façade of Palazzo Aurelia acts as stage on which its transparent and translucent sections interact.

Good insulating characteristics and a high level of daylight penetration are just two of the benefits these „industrial façades“ offer alongside their attractive appearance.

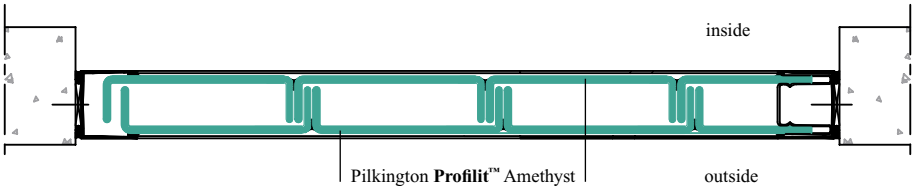
Façade architecture as mirror of sector involvement

Ernst Pennekamp, Ennepetal, Germany
Pennekamp is an internationally leading manufacturer of cooling ducts and coating installations for the production of profile and ornamental glass, container glass, glass brick modules and screens. When building the new company head office, the management aimed to have the building's architecture reflect the company's focal activities. At the same time, the idea was also to have all production and product assembly areas lit by as much daylight as possible. As far as the façade design of two large product assembly halls (108 x 54 m und 54 x 54 m) was concerned, the decision was made to use double-glazed Pilkington **Profilit™** glazing. The profiled glass elements were arranged vertically in three façade strips, one on top of the other, using Pilkington **Profilit™** system frame sections.

Builder:
Ernst Pennekamp GmbH & Co. OHG, Ennepetal, Germany
Architect:
Wolfgang Frey, Ennepetal, Germany
Installer:
Hense Glasbau GmbH & Co. KG, Dortmund, Germany

Pilkington Profilit™ glazing:
approx. 4.000 m² Pilkington **Profilit™** K32 Amethyst in thermally broken frame sections, colour coated in RAL 5008.

Vertical double-glazed installation
Horizontal section



Building with system - the frame sections available as part of the modular system were used for the double-glazed façade comprising Pilkington **Profilit™** elements, enhancing both the economy and speed of installation.

Eye-catching design using profiled glass sections

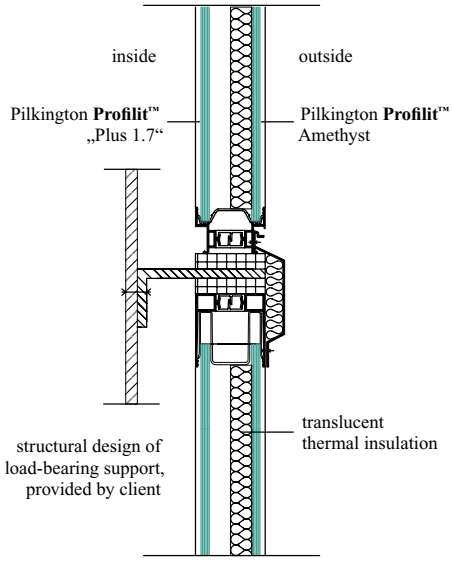
Business Communication Centre (BCC) in IT Park Saarland, Saarbrücken, Germany

The BCC is part of the „IT Park Saarland“ where it acts as a centre of catering, contact, communication and information. The cube-shaped edifice is appropriately divided into visitor, catering and technology wings. The façade was structured horizontally into two strips, each featuring transparent areas alternating with vertically arranged Pilkington **Profilit™** elements. The use of Pilkington **Profilit™** elements in three different widths and haphazardly arranged next to one another gives the façade a lively yet homogeneous look. The double-shell building shell comprising profiled glass sections has been designed in the form of a warm-type façade with honeycomb elements inserted for heat insulation purposes; only in partial areas does the Pilkington **Profilit™** system provide for a back-ventilated cold-type façade on top of heat-insulated masonry.

The BCC's innovative, aesthetically and functionally convincing architecture won a prize awarded by the BDA Saarland.

The glazed structural body of the building presents an exciting interaction between transparent and translucent façade sections at all times of the day or night.

Vertical double-glazed installation as an insulated façade
Vertical section



Builder:
GIU, Saarbrücken, Germany
Architect:
ARUS GmbH
Architect, Dipl.-Ing. Willi Latz, Püttlingen, Germany
Installer:
Glaszentrum
G. F. Schweikert GmbH, Heilbronn, Germany

Pilkington Profilit™ glazing:
approx. 1.000 m² Pilkington **Profilit™** types K25, K32 and K50 Amethyst or „Plus 1.7“, designed in the form of double-glazed installation with translucent thermal insulation inserts (honeycomb elements).

Pilkington **Profilit™** was used in double-glazed form with translucent thermal insulation inserts to provide for a warm-type façade. The profiled glass sections are used in three different widths and haphazardly arranged next to one another.

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Bauglasindustrie GmbH
Hüttenstraße 33 66839 Schmelz
Phone +49 (0) 6887 3 03 0 Fax +49 (0) 6887 3 03 45
E-Mail profilbauglas@pilkington.de
www.pilkington.com

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