

July/August 2014

Topics of this Newsletter are:

- **Safety and Design**

- Pilkington **Profilit**[™] at the new building complex of the Piri Reis University in Istanbul

- **Profiled Glass with System**

- New: Thermally broken Pilkington **Profilit**[™] frames # 830 and # 831 for Pilkington **Profilit**[™] triple- and quadruple glazing
- New: Pilkington **Profilit**[™] silicone gaskets 165 S und 166 S

- **The easiest way to Pilkington **Profilit**[™]**
www.profilit.com



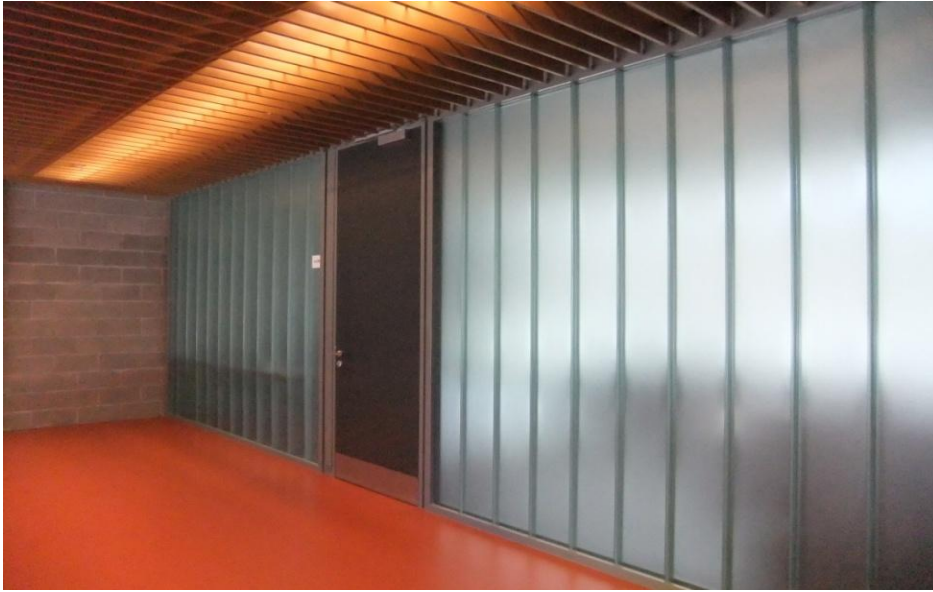
Safety and Design – Pilkington Profilit™ at the new building complex of the Piri Reis University in Istanbul

For the extension of the Piri Reis University, Block D1 to D3 in Istanbul the designing architect “KREATIF” from Istanbul has taken into account approx. 4000 m² of thermally toughened and heat soaked Pilkington **Profilit™** K 25/60/7 Macro T-H and K 25 Macro T-H safety glass for the construction of the exterior building envelope of the new university complex as well as for interior partition walls.

The products are used in different building sections and applications mainly as double glazed warm facade with the Pilkington **Profilit™** Plus 1.7 low-e coating on position 3 of the double glazing in order to provide improved heat insulation and solar control and as double glazed interior partition walls to take advantage of the excellent noise control characteristics of the Pilkington **Profilit™** system.



Picture 1: Nautical simulation and test basin building and staircases



Picture 2: Interior partition walls

Here Pilkington **Profilit™** can play its main strengths of on the one hand providing a lot of diffused natural daylight deep into the building and on the other hand allowing large scale glazing without interrupting metal mullions in the facade and long installation heights due to its excellent structural properties and resistance against wind loads.



Picture 3: Comfortable natural daylight inside the nautical simulation and test basin building.

Especially the combination of Pilkington **Profilit™** with other purist architectural materials like e.g. wood, patinable steel, stainless steel and galvanized rib mesh subscribes the attractive industrial character of the building ensemble.



Picture 4: Combination of Pilkington **Profilit™** with stainless steel and galvanized rib mesh

Project overview:

Project: Piri Reis University, Istanbul, Turkey

Architect: KREATIF Architects, Istanbul

Our customer: METCAM, Istanbul

Pilkington **Profilit™** products: approx. 4000 m² K 25/60/7 Macro T-H and K 25 Macro T-H

- **Profiled Glass with System**

- New: Thermally broken Pilkington **Profilit™** frames # 830 und # 831 for Pilkington **Profilit™** triple- and quadruple glazing

For decades the Pilkington **Profilit™** triple glazing has formed an integral part of our scope of product- and system testing and product portfolio as with this type of glazing excellent noise control characteristics of up to 57dB sound reduction can be achieved.

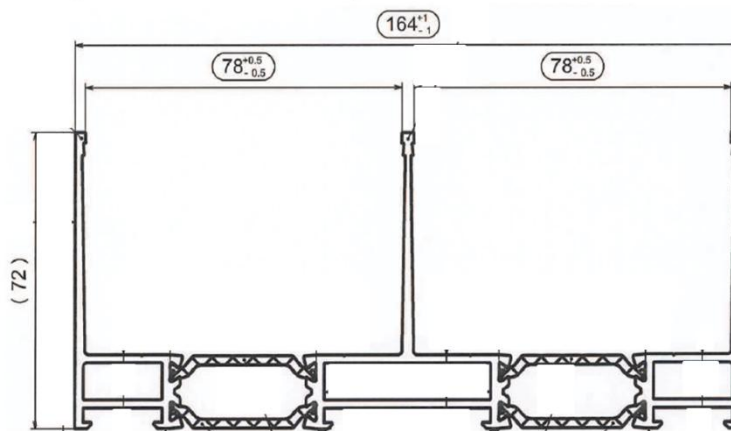
With regard to the increasing requirements concerning the energetic performance of building envelopes and the related development of building regulations it makes sense to take also advantage of the thermal and solar characteristics of this traditional type of glazing. Depending on possible glass combinations e.g. in a Pilkington **Profilit™** triple glazing with "Plus 1.7" coating on positions 3 and 5 and "Amethyst" coating on position 2, a U_G -value of 1.2 W/m²K and g-values of 0.39 can be achieved while remaining a light transmission of 37%.

In order to simplify the installation of this type of glazing and to avoid the arrangement of two separate frame systems, from now on the new Pilkington **Profilit™** system components # 830 (top/side) und # 831 (base) are available in mill finish, anodized or RAL powder coated finish.

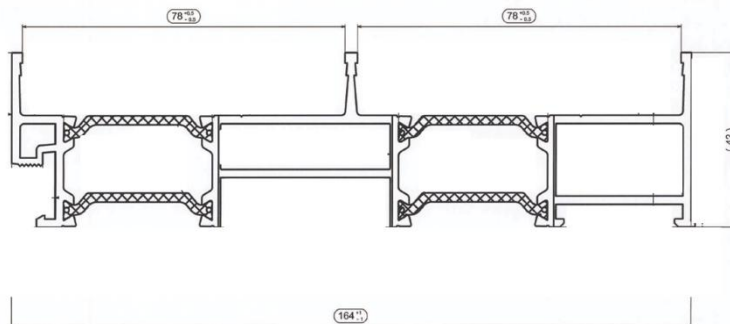
A positive side effect is that the new profiles are designed in a way that the proven PVC inlay profiles # 980/1, # 981/1, respectively # 980/2 and # 981/2 can be used here as well.

In addition with these profiles the Pilkington **Profilit™** setup with double TIM (translucent insulation material) interlayer and a tested U_G value of 0.85 W/m²K can be installed much easier and quicker than before.

Top / side profile # 830:



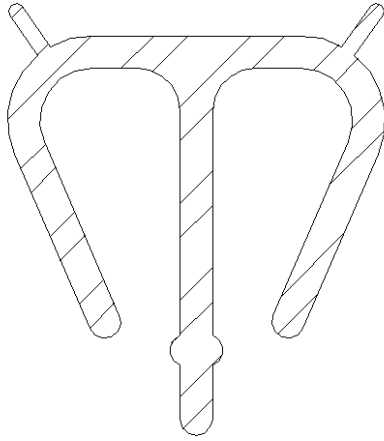
Base profile # 831:



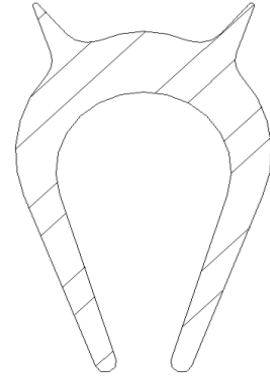
- Pilkington **Profilit™** silicone gaskets 165 S and 166 S

In the future you will have the choice between the Pilkington **Profilit™** gaskets 165 N and 166 N in the proven plasticized PVC quality and the new gaskets 165 S and 166 S in silicone material quality. Use of the silicone gaskets makes especially sense in combination with the Pilkington **Profilit™** Opal and low iron products as well as under cold climate conditions where silicone remains much more flexible compared to PVC and consequently installation of gaskets will be easier.

Silicone gasket # 165 S:



Silicone gasket # 166 S:



In case of any questions regarding the topics of this Newsletter especially with regard to the application of the new Pilkington **Profilit™** system components please feel free to contact our Application Technology Department at any time.

With best regards

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