



Polybutene
Piping Systems Association

Case Study

King Abdulaziz University, Jeddah, KSA



Nueva Terrain S.L.



www.pbpsa.com

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Nueva Terrain supplies PB-1 piping systems for 780 housing villas

King Abdulaziz University (KAU), located in Jeddah, Kingdom of Saudi Arabia, was established in 1967 as a national university serving the western area of Saudi Arabia. Since its inception, and with support from the KSA government, the university now has a campus of over 77,000 male and female students. As a result of its rapid growth, KAU has embarked on broad scale construction program of faculty housing villas utilizing PB-1 piping systems from PBPSA member company Nueva Terrain.



King Abdulaziz University, Jeddah, KSA

KAU Jeddah Faculty Housing Project

King Abdulaziz University is considered a pioneer in offering higher education to Saudi women and the university's female and male sections were inaugurated in the same year.

Due the popularity of the technical courses offered and the subsequent rapid growth of the student population and teaching staff, KAU Management is completing an ambitious construction program of 780 new faculty housing villas in Jeddah.

In past construction projects the university planning contractors had specified UPVC and CPVC piping systems. For a number of reasons they were not satisfied with the performance of those systems and looked further afield which led to discussions with the sales and technical team at Nueva Terrain.

Nueva Terrain was able to demonstrate to the KAU Management team in charge of construction planning that Polybutene-1 (Polybutylene, PB-1) was the ideal choice for long-lasting pressurized piping systems.

When compared to piping material alternatives in key performance areas such as impact toughness, chemical resistance, flexibility, creep resistance, pressure resistance and acoustics, PB-1 piping systems deliver consistently excellent performance in challenging environments.

In addition, specifying the Nueva Terrain PB-1 Push-fit piping system resolved two persistent problems on modern building sites that contribute to installation problems (potentially leading to ongoing reliability issues) and higher costs:

- The availability of **SKILLED** installers
- Overall **TIME** required for onsite installation



The Nueva Terrain PB-1 Push-fit assembly technology (16-50mm \varnothing) answered these challenges with a system that is easier and faster to install than other traditional piping systems. The jointing operation is achieved in one simple step for rapid and effective installation without the need for specialised tools, glues, solvents, heat or electric power connections.

Nueva Terrain hosted key members of the KAU planning team to their factory in Spain to view the state-of-the-art manufacturing operations and technical support facilities. In addition, KAU were able to join Nueva Terrain in visits to existing installed facilities using Nueva Terrain PB-1 systems in KSA and Kuwait.

Project Details | 780 Housing Villas

Piping material:

Polybutene-1 (Polybutylene, PB-1) for pressurized pipes and fittings for hot, cold and chilled water.

Piping diameters installed:

From 16mm \varnothing through to 50mm \varnothing pipes with corresponding fittings.

Total piping used:

Over 15,000 metres of PB-1 piping was utilized in the KAU housing project.

Assembly methods:

Nueva Terrain Push-Fit - delivering significant savings in installation time.

Total construction area of the project:

735,000 sq. metres.

Project value:

SAR 1.2 Billion.

Additional Nueva Terrain projects in KSA

Other successful projects completed in KSA by Nueva Terrain using their PB-1 Push-fit system include:

- Alfarsi Twin Towers
- Lamar Towers (under construction)
- Snabil Tower
- Bayat Towers
- EMAAR Residential Towers (3)
- EMAAR Squire Commercial Towers

www.nuevaterrain.com

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Before using a product made from Polybutene-1 users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. Polybutene-1 may not be used in the manufacture of any US FDA Class III Medical Device or Health Canada Class IV Medical Device and may not be used in the manufacture of any US FDA Class II Medical Device or Health Canada Class II or Class III Medical Device without the prior written approval by Seller of each specific product or application. Polybutene-1 is not sold by PBPSA members for use in pipe applications intended for use in North America, and those parties require their customers or distributors not to sell products made from PB-1 into pipe applications for North America.