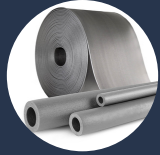


IBEROAMÉRICA HOSPITAL

Controlling environments with time and cost efficiency



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OBJECTIVES

The project owners challenged Thermaflex due to our wide experience in polybutene (PB-1) pipe systems. The flexibility of PB-1 offers a great advantage for the installer in terms of installation. The main challenge was to demonstrate how to take advantage of this flexibility to optimize installation times, while reducing the number of accessories, such as elbows, which also significantly cuts material costs. In addition to the installation time and cost efficiency of the indoor piping network, the operational efficiency of cooling and ventilation systems was key. This is also why the choice fell on polybutene, which has a low thermal conductivity, plus a durable thermal insulation system – ThermaSmart PRO – which allows for long-term energy efficiency due to its great resistance to condensation and mechanical damage compared to traditional materials. This could bring significant project savings and efficiencies in resources. This we could demonstrate directly on site, and provide the accompaniment required in the installation process of the supply and return networks from the rooms to the technical cover.


PROCESS

The construction of the Clínica Iberoamérica would provide greater coverage in health services for the city of Barranquilla while improving the quality of medical treatment for the community. To ensure such first-level treatment, the hospital includes:

- 8 Surgery rooms,
- 62 rooms for adults,
- 8 rooms for pediatrics,
- 5 delivery rooms,
- 22 Intensive Care Units,
- Cardiovascular Surgery Department,
- Latest generation diagnostic images,
- Clinical and Pathological laboratories for sampling and analysis,
- All medical equipment and appliances are based on the latest technology.

This project was of outstanding importance for the company as it sought to expand its services in Colombia and thereby needed to achieve high operational efficiency of its new facilities.

PROJECT LOCATION

 Barranquilla, Colombia


AT A GLANCE

- Duration: 1 Year
- 6°C working temperature and 40°C ambient temperatures
- 90% relative humidity and 0 incidents recorded during system operation

APPLICATIONS

- Airconditioning

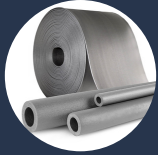
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RESULTS

The choice for flexible PB-1 systems and ThermaSmart PRO managed to secure significant project savings and resource efficiencies. This we were able to demonstrate directly on site, providing project support throughout the installation of the supply and return networks from the technical rooms to the medical spaces, including careful instruction for each of the fusion techniques for the project's installation professionals. The entire construction of the medical center was realized within the year, allowing tight installation schedules to be kept well within their designated timeframes.

The combination of a PB-1 system with ThermaSmart PRO technical insulation also proved to be an ideal solution for this project in terms of performance. So far, the hospital's cooling systems operate reliably; there have been 0 incidents with leakages or significant energy losses in the system, ensuring uninterrupted, optimal system performance.

