

**Customer:** Construtec Costa Rica

**Project:** Industrial Building-LAICA (Industrial and Agricultural Sugarcane League)

**Area:** 20.500 m<sup>2</sup>

**Product:** PRODEX AD 10 (Reflective Thermal Insulator)

## Problem

High humidity levels and variable temperatures. Sugar stored in these warehouses can change color when exposed to temperatures over 86°F (30°C) and can coagulate with high humidity levels, thus impacting a representative volume of tons of waste a year. Controlling such broad warehousing spaces as these entails a high energy level in fans or air conditioners.



## Results:

- ✓ High energy efficiency
- ✓ Total temperature control
- ✓ No coagulation or discoloration of sugar
- ✓ Waste savings
- ✓ Satisfied customer

## LAICA

El Coyol Operations Center is another milestone in the development and consolidation of the Costa Rican Sugarcane Sector. It is an investment for the future because it is a state-of-the-art and large center that will benefit the merchandising and warehousing of products manufactured by the Industrial and Agricultural Sugarcane League, an organization composed of 12.000 producers and 15 sugar mills.

The Costa Rican Sugarcane Sector invested about US\$30 million in the innovative Operations Center. The infrastructure is one of the most modern ones in Central America because it houses a Warehousing Center with a capacity to store 1.500.000 sugar bags or the equivalent of 75.000 metric tons.



It also has a modern Physical Mixture Plant which processes 4 tons of products per hour, such as iced tea and gelatin products. These products are only used for export. For LAICA, the development and merchandising of value-added products that can compete in international markets is critical.

## PRODEX®

We are a 100% Costa Rican company that has focused on developing global markets. Currently, we have a strong presence in our selection of reflective thermal insulating products. Our ongoing innovation is based on real and guaranteed solutions to the main insulation needs in the different construction sectors. Our products have been able to position themselves in the global market as one of the best in their category, thus it has won several awards for their quality and effectiveness. Prodex® has been granted with the main certifications in the international market.

## EFFECTIVENESS OF OUR PRODUCTS

The LAICA project required an insulation system for 5 hectares (20.500 m<sup>2</sup>) to keep minimum humidity and stable temperature levels to store its products.

Prodex® technical and sales staff and Construtec engineers and architects conducted a deep analysis of customer needs. The characteristics of our AD10 product were significantly exploited (thermal resistance, vapor barrier, strength, and finishing) and a thorough assessment of the project showed that even in a large warehouse, our products was able to control the external extreme weather conditions and to achieve a satisfactory internal climate thus avoiding an excessive energy consumption by controlling the environment.

## ENERGY EFFICIENCY

Prodex® represents an Opportunity to save Energy that has an impact on the electricity consumption by improving the efficiency of air conditioning, refrigeration, hot water tank, and heating systems.



**RIMA AWARD**

Thanks to its excellent work and the characteristics and qualities of our products, RIMA announced that PRODEX® Costa Rica is the winner of the award in the category of Metal Structure Buildings that undoubtedly contribute to Energy Savings. With a commitment to customer satisfaction and the well-being of society, PRODEX® excels as a top-notch company that has been granted several certifications as an international insulation solution leader.



**RIMA**

It is the only global organization that gathers global manufacturers of reflective insulators and radiant barriers. This international association works closely with those who develop and assess the construction codes and techniques.

**More than insulation, it is *Prodex®* Total Insulation**



Comfort in harmony with the environment

