



Presidential House of Guatemala

Clear Track Fiber Pathways:
Creating more ways to see less

Claro Guatemala | Impelsa | Corning

Case Study

Clear Track Fiber Pathways



Historic Centers.
The epicenter of executive power



History, Culture,
Technology, and
Innovation combined



The need to modernize infrastructure without compromising aesthetics and structural integrity

The Client

Claro Guatemala, one of the country's leading telecommunications operators, provides an offering of data link services, which are solutions tailored to various installation scenarios. With the implementation of GPON networks, which require fiber optic links, there is a need for solutions that minimize visual impact and damage to residential or office finishes. These solutions must be quick to install, require minimal training, and simplify supply management. These characteristics are crucial for installations in high-profile residences, historic buildings, and locations with cabling limitations.



**6 to 8
hours**

Installation occurred in record time, exceeding initial expectations

The Project

The Presidential House of Guatemala, a historic monument, and the center of executive power in the country, has over 90 years of history.

This iconic building, which not only houses administrative functions but also symbolizes national heritage and identity, is of great significance to the Guatemalan nation. However, it became evident that there was a need to modernize its telecommunications infrastructure to keep up with current technological demands. Due to its significant cultural and historical importance, it was crucial that any updates preserved the aesthetic and structural integrity of the building. Therefore, a solution was needed that would accommodate the incorporation of high-speed fiber optic services while respecting its architectural and aesthetic integrity.

Challenge

The modernization of the telecommunications infrastructure in the Presidential House was essential and posed a significant challenge, given the need to meet current technological demands without compromising the historical character of the building. Although it already had an existing network infrastructure, a combination of copper and fiber, a more dynamic and adaptable infrastructure was required that could evolve over time. This solution not only needed to ensure high-speed internet service to improve the efficiency of daily operations but also had to be discreet and respect the aesthetic and structural integrity of one of the country's most important cultural heritages.



Solution

Clear Track Fiber Pathways

Given the challenges presented, IMPELSA, a company with extensive experience in the telecommunications market in Guatemala and strategically aligned with Corning, proposed the perfect solution to meet all the project requirements.

The chosen solution was Corning's Clear Track Fiber Pathway, specifically designed for installations that require high visual discretion. This fiber system uses microreplication technology that disperses light at multiple angles, making the fiber almost imperceptible to the human eye. Additionally, Clear Track utilizes 900 μm ultra-bendable fiber, ideal for environments that demand flexibility without sacrificing performance.



Clear Track Fiber Pathways

Case Study

Clear Track Fiber Pathways



Quick installation

Within hours, with minimal disruption to the surroundings



Easy installation

A single person can handle the entire job



Virtually invisible

High visual discretion. Almost imperceptible to the human eye



Ultra-durable fiber

resistant to 900 μm bends

www.corning.com/cleartrack

To ensure a quick and easy installation, Clear Track features a patented adhesive that allows it to be attached to virtually any surface without the need for staples, glue, or additional conduits. Simply remove the adhesive backing and press it in the desired location, minimizing the need for drilling and avoiding damage to the original structure. This design enables a single person to complete the installation in just a few hours, with minimal disruption to the environment.

Corning provided the complete solution, including components such as Corning 8802 field connectors and NPC+, and low-profile splice closures OSC-1, which ensure a secure and durable connection without compromising the aesthetics of the space.

“Dynamic and adaptable future-proof solution.”

Jorge Villatoro
Product Manager | Impelsa

The Impact

The implementation of Clear Track in the Presidential House of Guatemala led to significant improvements in connectivity while preserving the building's heritage. The solution allowed for the implementation of gigabit speeds, with the capacity to support multiple devices connected simultaneously, effectively addressing technological demands, and increasing efficiency and productivity.

In terms of installation, the process was fast and discreet, completed in just 6 to 8 hours of effective work without the need for additional tools. Clear Track's patented adhesive ensured a secure attachment, avoiding the need for drilling while maintaining the building's aesthetic intact. The system is completely removable and easy to handle, allowing for future adjustments without compromising the structure and aesthetics of the building.

The project highlighted IMPELSA and Corning's commitment to respecting the cultural and historical value of the heritage by providing a modern infrastructure without causing any visual or structural impact on the Presidential House.

CORNING

Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC 28216 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

Corning Optical Communications reserves the right to improve, enhance, and modify the features and specifications of Corning Optical Communications products without prior notification. A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/trademarks. All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified. © 2024 Corning Optical Communications. All rights reserved. LAN-3393-AEN / November 2024