

T5 Data Center

Single-source AWB system solves project challenges

OREGON

Project at a Glance:

Category: Air & Water-Resistive Barrier Systems

Completed: 2024

Type: Data Center

The Challenge:

T5, a prominent developer and operator of mission-critical data center facilities, broke ground on a new campus in Hillsboro. This multi-phase, build-to-suit project included over 500,000 sq. ft. of data center space and more than 54 megawatts of critical power.

Approximately 85% of the structure was built using insulated metal wall panels with an integrated weather barrier system that wrapped nearly the entire building. However, incorporating various materials and finishes throughout the facility introduced challenges, particularly in areas where wood cladding overlapped with the existing siding. Ensuring a level surface was crucial to maintaining a straight, even application of subsequent layers.

The Solution:

A Siplast WALLcontrol™ AWB System was selected for its ease of installation—the liquid-applied STPE Liquid AWB product, in particular, required minimal training, allowing for efficient implementation—and warranty, which reinforced confidence in its long-term reliability.*

• Enhanced durability and protection

As the primary AWB, the WALLcontrol™ System was also applied behind nearly all faux wood cladding and aluminum composite material, reinforcing the building envelope across multiple surfaces. One-third of the building's north elevation is clad with small insulated metal panels with the canopy visible in this section, where WALLcontrol™ enhances durability and protection.

Siplast Products Used:

- WALLcontrol™ AWB System
 - STPE Liquid AWB
 - STPE Liquid Flashing
 - Stainless Steel Flashing
 - Aluminum Reinforced Butyl Adhered Flashing

• Seamless integration with cladding materials

In the areas where incorporating various materials and finishes presented challenges, especially where wood cladding overlapped with existing siding, the siding was installed directly over the WALLcontrol™ System, allowing for precise edge detailing with liquid flashing and screws to ensure a smooth, even surface. Without this system, surface irregularities would have required extensive shimming for a flawless finish.

• Streamlined process with Siplast support and coverage

A key advantage of using WALLcontrol™ solutions was having Siplast as the single-source supplier of all manufacturer warranties, which streamlined the process and helped ensure consistency. Siplast's technical guidance and clear installation instructions were also instrumental in selecting and installing the right solution.

*For qualified systems only. Additional requirements apply. Contact Siplast for more information. Refer to the applicable guarantee or warranty, available at [siplast.com](https://www.siplast.com), for complete coverage and restrictions.



With you every step of the way