

ADAPTIWALL – FOR ENERGY EFFICIENT RETROFITS AND NEW CONSTRUCTIONS - AT A GLANCE



Energy efficient prefab facade

- Energy savings for heating and cooling more than 50% in comparison with conventional retrofitting by allowing adaptive energy exchange with the outdoor climate through an innovative prefab wall system.
- The innovative prefab wall system integrates several functions:
 - HARVESTING:** System of glass cladding and insulation, which is by-passed to collect energy in the buffer and release it when needed for heating or cooling.
 - STORAGE:** Lightweight concrete with additives for maximized heat exchange and heat storage capacity (3x higher than normal concrete).
 - BREATHING:** Compact ventilation and energy recovery system (THEX) which eliminates auxiliary HVAC installations and improves indoor air quality through an innovative membrane and separator combination.

Quick installation

- Prefabricated panels ensure reduction of retrofitting/construction time.

Market potential

- Architectural flexibility.
- High adaptability potential – suitable for different types of buildings and climatic regions.

