



EPIC WALLTM

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CATALOG DESIGN

New Generation of Prefabricated Walls 2026

The Epic Wall Panel 7 industrial sandwich panel factory has been established in line with the company's core approach of innovation, future-oriented thinking, and the production of advanced materials for dry construction systems that are environmentally friendly. Epic Wall Industrial Group's sandwich panels are among its main products, manufactured from nitride oxide sheets. These panels are designed and produced based on standard material properties and in accordance with the technical specifications of ecotech architecture and sustainable construction.

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W A L L

Sandwich panels are considered one of the most widely used materials in modern architecture due to their lightweight nature, high strength, and excellent insulation performance.

In the construction industry, there has always been a gap for a material that is resistant to earthquakes, fire, and impact, provides effective moisture and sound insulation, enables lightweight construction with easy installation, and is compatible with sustainable architecture.

Accordingly, in response to the construction industry's need for modern building solutions, Epic Wall Industrial Group has launched its modern Epic Wall sandwich panel production line.



Applications of Epic Wall Sandwich Panels

- Used as internal and external walls in various types of buildings (modern residential projects, industrial buildings, office and commercial buildings, healthcare centers, hotels, schools, cinemas, and cold storage or prefabricated spaces).
- Used as fire-resistant walls and ceilings.
- Used as thermal insulation, such as in cold storage facilities.
- Used as acoustic insulation, such as in studios.
- Used as a false/secondary cladding for walls, floors, and ceilings.
- Used as partitions and space dividers.
- Used as protective underlayment in flooring systems.
- Used as protective walls against various types of radiation, such as X-rays.
- Features of Epic Wall Sandwich Panels.

Features of Epic Wall Sandwich Panels

Thermal insulation, earthquake resistance, sound insulation, resistance to moisture, rainfall, and severe frost, lightweight structure, easy installation, reduced building construction time, cost-effective, environmentally friendly and recyclable, no need for finishing or plastering, dry construction system, high execution speed, high strength and stability, long service life with warranty, and suitability for coating, painting, wallpapering, printing, and façade applications.

Technical specification table

Length	Unlimited (custom-made)
Width	cm 60
Thickness	cm 15_10
Color	Cream (other colors available upon customer order)
Weight	kg 22_20
Earthquake-resistant	A1 rating
Fire-resistant	A1 rating



Sound insulation	50 dB
Water permeability	0% (zero percent)
Resistance to heat and precipitation	Class A
Wet and dry cycles resistance	Class A
Frost resistance (per standards)	Class A
Moisture insulation	Class A
High construction speed	M2 in 8h

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Fire Test

According to tests conducted by the Road, Housing, and Urban Development Research Center, in accordance with the international standard ISO 1182 and the national standard 7271-2, Epic Wall is completely fireproof and provides thermal insulation. Therefore, it can be confidently stated that Epic Wall is a reliable choice for modern construction.

Water-Free Construction

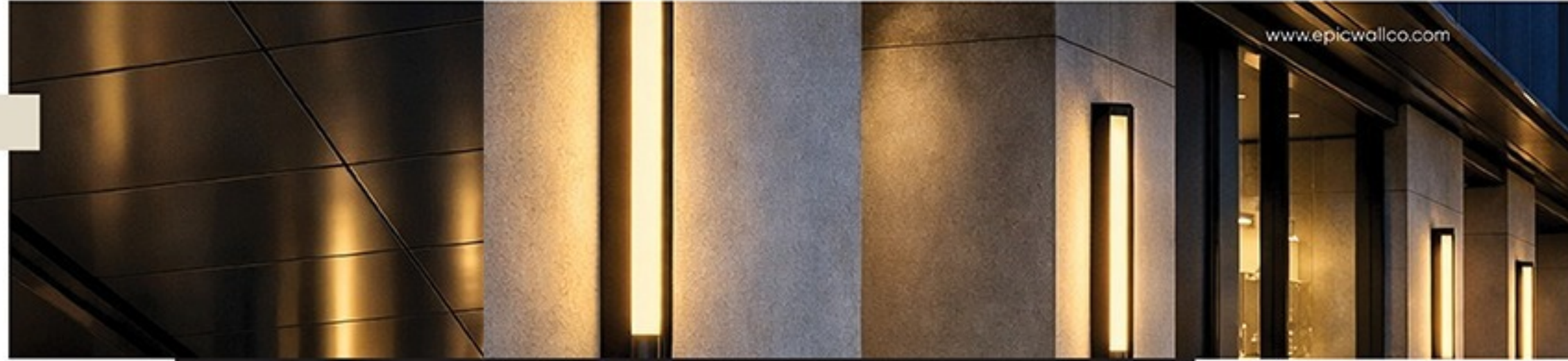
Since sandwich panels are prefabricated in the factory, their installation requires no mortar or wet processes. Therefore, the entire installation process is completely dry and does not consume any water on-site. This not only conserves water resources but also increases construction speed, reduces environmental pollution, and keeps the worksite cleaner.

Earthquake Resistance

Buildings constructed with "Epic Wall" panels exhibit optimal performance against seismic forces due to the integrity of their components and lightweight structure. The engineering philosophy behind Epic Wall walls and ceilings is to replace a few strong elements with multiple weaker elements. This design ensures that, in the event of an earthquake, even if one part of the building is damaged, the remaining sections compensate for the affected areas. In natural disasters such as earthquakes, our lives are threatened by dead loads. Dead loads include the heavy materials used in the walls, floors, and ceilings of traditional buildings, as well as our everyday belongings. This is where the "Epic Wall" wall and ceiling system takes priority. Its excellent earthquake resistance is due to a combination of good ductility, exceptional lightness, and high structural strength.

Reduced Construction Time

One of the most important features of Epic Wall sandwich panels is the significant reduction in construction time. The panels are prefabricated in the factory and only need to be installed on-site. This eliminates many stages of traditional construction, such as formwork, reinforcement, and waiting for materials to cure. As a result, up to 200 square meters of wall can be installed in just 8 hours.



Cost Reduction and Lightweight Construction

Comparison of steel and concrete consumption in a similar panel (2 units over 3 floors, totaling 6 units of 85 m² each):
Variant 1: Concrete frame with a simple moment-resisting system and a joist-block ceiling.
Variant 2: Steel frame with a hinged system and composite ceiling.
Variant 3: Construction using Epic Wall walls and ceilings.

Cost Reduction and Lightweight Construction Table

Structure	Concrete(ton)	Metal(ton)	Epic Wall
Cement consumption	20.5	11	5.2
Steel consumption	4	5.8	2.8
Weight per unit including common areas	85	59	18
Total building weight	510	357	107

Material and Energy Savings

Material and energy savings are among the other advantages of using Epic Wall walls and ceilings. Their low volume and lightweight nature reduce the amount of materials needed for construction, which in turn means less energy is required for material production. The lightweight design also significantly reduces the energy needed for transportation. During construction and installation, less energy is required to move and assemble the components and materials.

With proper insulation materials, panels, and construction methods, heat exchange between the interior and exterior of the building is minimized, resulting in significant energy savings. Energy efficiency is an economic advantage of industrial buildings. Considering household and commercial energy consumption, which grew at an average rate of 4.7% in the 1970s, and its value based on global prices (equivalent to \$20 billion), this sector accounts for the highest energy usage. By using insulation in building structures, indoor spaces can be kept 5°C warmer in winter and 10°C cooler in summer.

Due to reduced cement usage, these buildings are environmentally friendly. They offer higher quality while lowering costs and reducing steel consumption— a valuable material for the future. Epic Wall panels are suitable for interior walls, especially in humid areas like bathrooms and high-traffic zones. Additionally, they provide an excellent base for painting, wallpaper, and ceramic tiles.



Material and Energy Savings

Eco-Friendly Epic Wall Walls and Ceilings

Using Epic Wall walls and ceilings results in minimal material and energy waste, both during construction and throughout the building's lifecycle. Buildings constructed with Epic Wall systems are recognized worldwide as green and environmentally friendly.

Reduction of Construction Waste

Globally, 60% of waste is generated by traditional construction activities. In contrast, construction using Epic Wall walls and ceilings produces less than 1% of that waste.



Green Buildings

A green building is a structure designed to be compatible with the environment and energy-efficient.

Throughout all stages — design, construction, operation, maintenance, repair, and demolition — it minimizes environmental impact. The construction of a green building requires close collaboration among all members of the design team, including architects, structural engineers, and mechanical and electrical engineers.



Green Buildings
LEED Credit Categories

Material and Resources



Sustainable sites

Water Efficiency



Innovation in Operations
& Regional Priority

Energy and Atmosphere



Indoor Environmental Quality



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Comparative Standards: LEED, EDGE

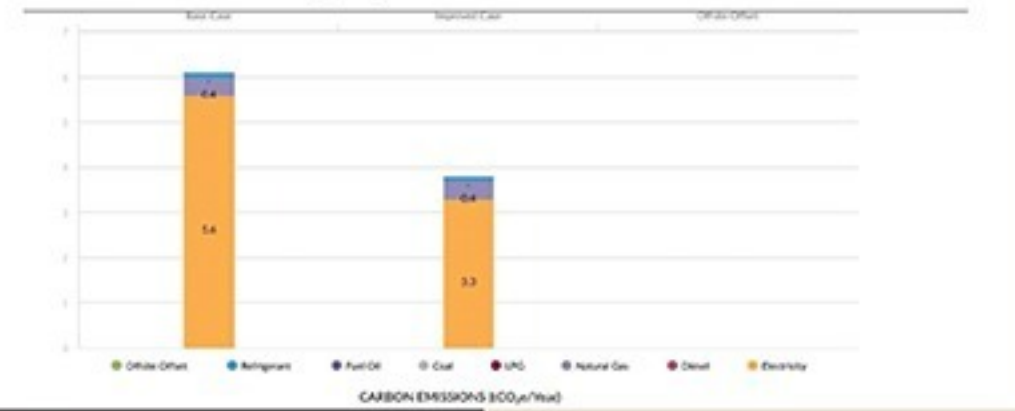
For a construction project to meet green building criteria and be officially recognized as a green project, it must first meet strict prerequisites across seven key categories in order to earn points in these criteria. Projects that utilize Epic Wall walls and ceilings are able to achieve several of these green building standards.



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Charts

Net Carbon Emissions: 3.8 tCO₂e/Year/House



Net Carbon Emissions Chart

Charts

ENERGY SAVINGS

Energy Efficiency Measures 43.77%

EDGE ADVANCED

Meets EDGE Energy Standard

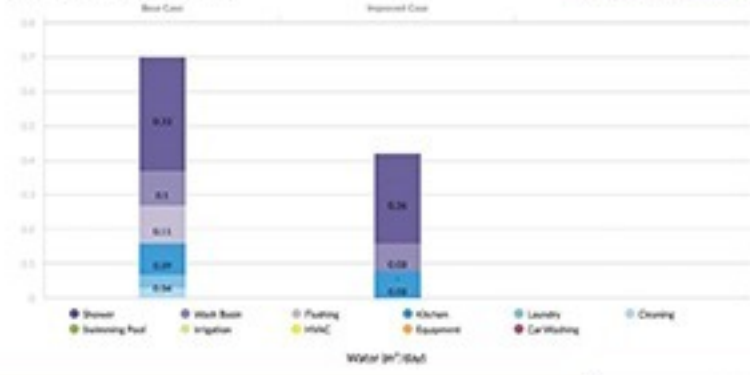


Energy Savings

WATER SAVINGS

Water Efficiency Measures 43.47%

Meets EDGE Water Standard

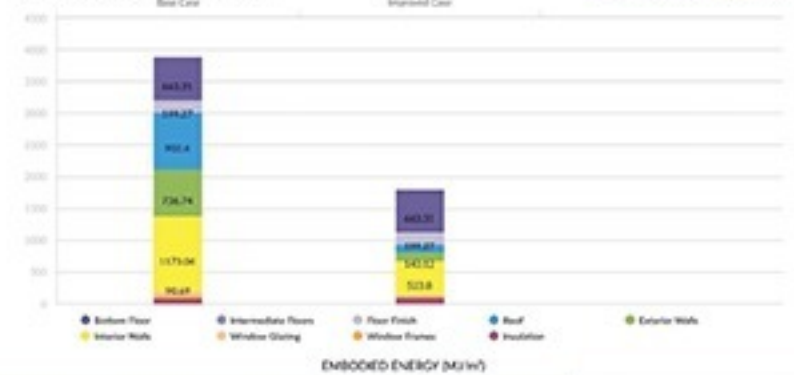


Water Saving

EMBODIED ENERGY SAVINGS

Materials Efficiency Measures 53.70%

Meets EDGE Material Standard



Embodied Energy Savings



Tehran, Niavaran, Zeinali Street, 13th
West Street, Darbari Tower, 10th Floor
TEL: +989128900788
www.epicwallco.com
info@epicwallco.com



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EPIC WALL EXTRAORDINARY RESISTANCE

Extraordinary Resistance

Buildings constructed with Epic Wall have a high degree of resistance to water, mold, mildew, and other environmental factors. The epoxy resin used in the construction process is completely dry and does not consume any water on-site. This not only conserves water resources but also increases construction speed, reduces environmental pollution, and keeps the worksite cleaner.

Water-Free Construction

Since sandwich panels are prefabricated in the factory, their installation requires no mortar or wet processes. Therefore, the entire installation process is completely dry and does not consume any water on-site. This not only conserves water resources but also increases construction speed, reduces environmental pollution, and keeps the worksite cleaner.

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