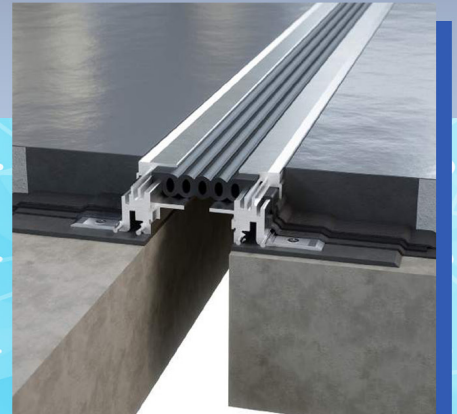
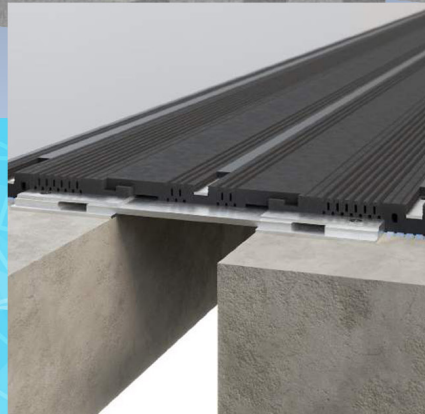


# GRP Tanks & Expansion Joints

Corrosion-Resistant GRP Solutions | Thermal & Movement Joints





**Expert Power Building Materials Trading LLC, UAE** is a leading provider of high-quality fiberglass-reinforced plastic (GRP) tanks and expansion joints designed for superior durability and performance. Our expansion joints, including floor-to-floor, wall-to-wall, and floor-to-wall cover joints, ensure seamless movement and protection in demanding environments. With a focus on innovation and precision, we deliver solutions that enhance structural integrity, safety, and longevity across industrial and construction applications.

Backed by years of expertise, we prioritize advanced engineering and stringent quality standards to meet the evolving needs of our clients. GRP tanks offer corrosion resistance, lightweight strength, and customizable designs, while our expansion joints provide reliable stress relief for surfaces. Whether for water storage, chemical containment, or infrastructure projects, our products are built to excel.

Customer satisfaction drives our commitment to continuous improvement and tailored solutions. From design to installation, GRP Tanks & Expansion Joints ensures excellence at every step, making us the preferred choice for engineers, contractors, and developers in UAE.



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# GRP TANKS

## Innovative Water Storage Solutions

**GRP (Glass Reinforced Plastic)** are engineered for superior strength, durability, and resistance to corrosion, making them ideal for storing water, chemicals, and other liquids. Made from high-quality composite materials, GRP tanks offer a long-lasting, maintenance-free solution for industrial, commercial, and residential applications.



### Features & Advantages

- ✓ **4-Layer Insulation**  
GRP + 40mm polyurethane foam + non-woven fabric for freeze/condensation resistance.
- ✓ **Hygienic & Safe**  
Non-toxic, non-leaching, and compliant with potable water standards.
- ✓ **Corrosion-Resistant**  
Unlike steel or concrete, GRP does not rust or degrade when exposed to harsh chemicals or weather conditions.
- ✓ **Lightweight & Easy to Install**  
Significantly lighter than traditional materials, reducing transportation and installation costs.
- ✓ **Long Lifespan**  
Resistant to UV rays, extreme temperatures, and chemical erosion for decades of reliable use.

### Applications

Potable water storage | Firefighting systems | Industrial process water | Agriculture | HVAC  
Municipal projects | Remote industrial projects



# GRP TANKS

## Specifications & Setup

### Certifications & Compliance

#### WRAS Certified

Safe for potable water storage.

#### UV-Resistant

Outer layer prevents degradation.

#### Seismic & Wind Load Rated

KH = 1/3G earthquake resistance;  
60 m/sec wind speed.

### Performance Data

#### Tensile Strength

102 MPa (vs. industry standard 60 MPa).

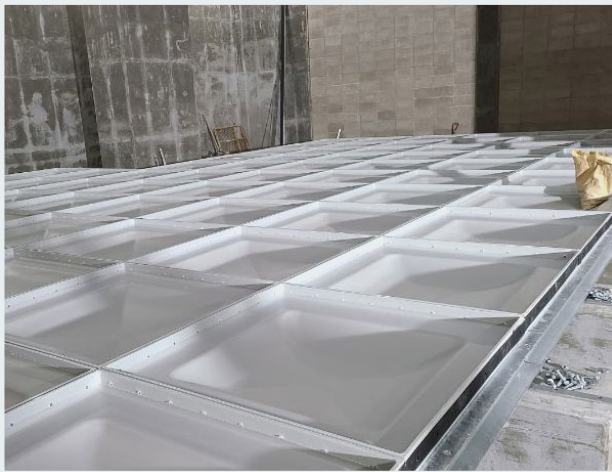
#### Flexural Strength

150 MPa (vs. 80 MPa standard).

#### Thermal Conductivity

$2.0 \times 10^5$  (superior insulation)

### Setup & Installations



Concrete base & base panel assembly



Wall panel assembly



Roof & support assembly



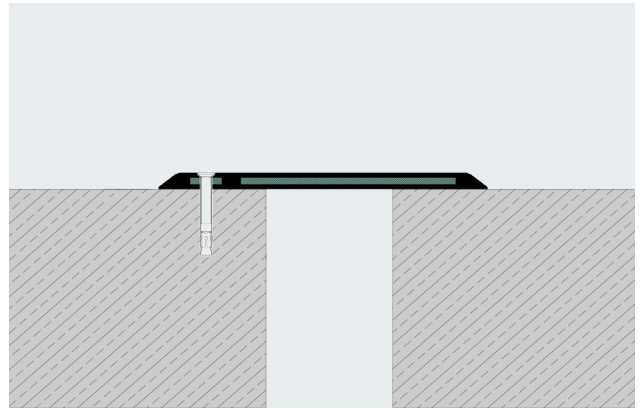
Final GRP Tank placement

# EXPANSION JOINTS

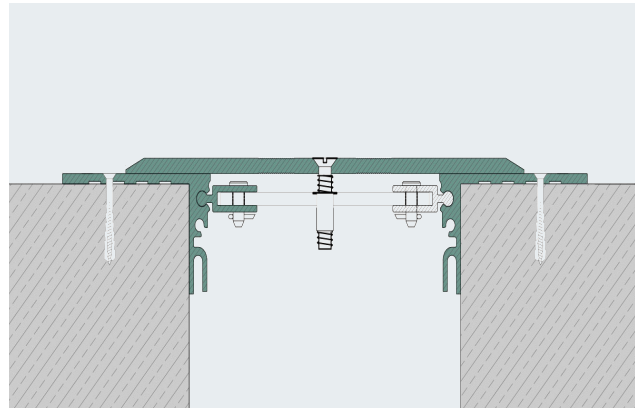
## Embedded & Surface Mounted Joints

Embedded & surface-mounted expansion joints absorb structural movements, preventing cracks. Ideal for floors, walls, and pavements, they ensure durability and flexibility in construction. Available in various materials for seamless integration.

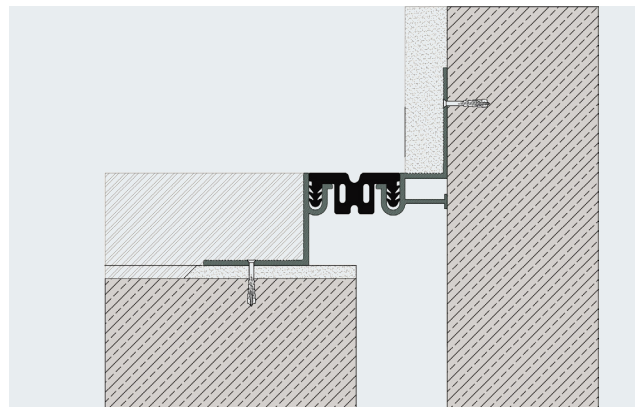
### Surface Mounted Expansion Joints



### Surface Mounted All Metal Joint



### Embedded Expansion Joint

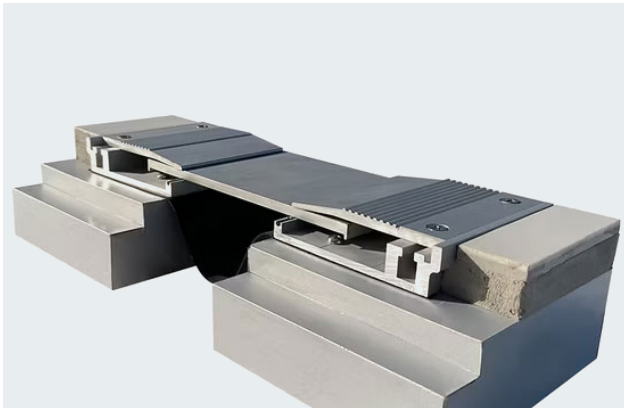


# EXPANSION JOINTS

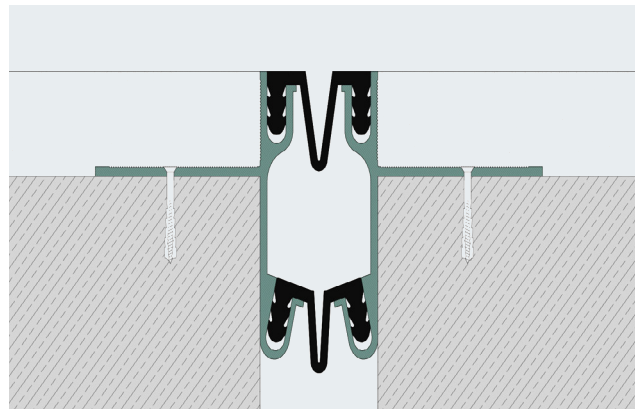
## Sliding & Recess Joints

Sliding & recess expansion joints accommodate structural movement in floors and walls. Designed for heavy loads, they ensure smooth transitions, durability, and crack prevention in industrial and commercial applications.

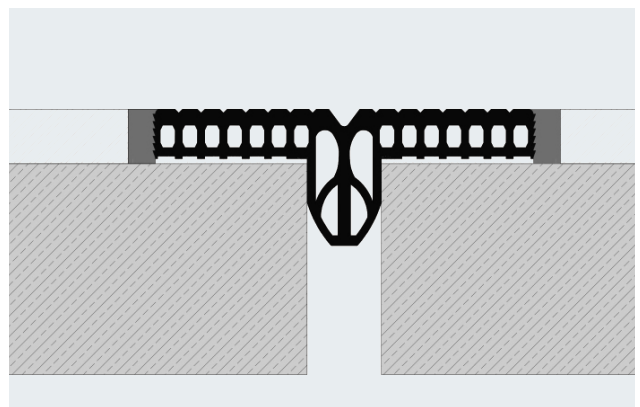
### Sliding Cover Expansion Joints



### Wall to Wall Recess Mounted Joint



### Waterproof Expansion Joints

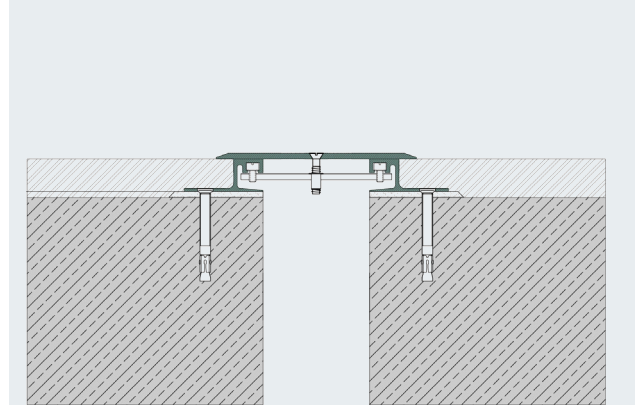




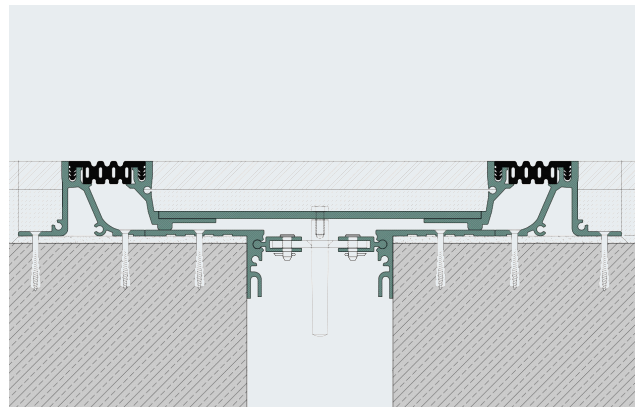
# SEISMIC EXPANSION JOINTS

## Seismic Cover Joints

### Seismic Expansion Joint



### Floor Finish Seismic Expansion Joint



## GET IN TOUCH

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