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## THE ISOLATOR

As we prepare to bid farewell to 2024, we look back on a year that has been nothing short of extraordinary. It has been a year of transformative milestones that have propelled Kinetics Group to new heights. This December, we are filled with pride and gratitude, particularly as we just celebrated the UAE National Day—a momentous occasion that embodies the innovation, resilience, and unity of the nation we are proud to call home.

Welcome to the December 2024 edition of our newsletter—a celebration of everything we've accomplished together. This issue highlights the impactful projects we've delivered, from cutting-edge installations to expanding our portfolio of noise and vibration solutions, seismic restraints, and allied products, we have remained steadfast in our mission to deliver innovation and quality across the GCC and beyond.

These achievements would not have been possible without the unwavering dedication of the entire Kinetics team. As we look ahead to 2025, we embrace the future with renewed confidence and determination to serve our clients.

## MARBLE ARCH TOWER, DUBAI, UAE



Nestled in the heart of Business Bay, this luxurious development sets a new benchmark for elegance and tranquillity. As a key contributor to its vision of unparalleled living comfort, Kinetics Group redefined the acoustic experience within the tower, ensuring an oasis of calm amidst the bustling cityscape.

To achieve this, Kinetics implemented cutting-edge **Floating Wall and Ceiling Systems**. These systems provided superior sound insulation, significantly reducing airborne noise transmission. By isolating structural components, the floating systems effectively minimized noise transfer between rooms and floors, maintaining a quiet and private atmosphere in every corner of the tower.

For the mechanical floors, Kinetics engineered and installed **acoustic perforated metal linings** on walls and ceilings. These specialized linings are designed with high-performance sound absorption materials that diminish internal noise within mechanical spaces. This ensures that operational sounds from equipment are controlled and do not disrupt the peaceful ambiance of the living spaces.

In premium developments like this, effective acoustic solutions are essential. Kinetics' advanced systems ensure residents enjoy a serene, private, and comfortable environment, perfectly complementing the tower's sophistication and luxury.

## STUDIO OFFICES, SHARJAH, UAE



In a landmark luxury project located in Sharjah, Kinetics was entrusted with elevating the acoustic environment to match the development's premium standards. Recognizing the importance of tranquility and functionality in the workspace, Kinetics began with a detailed acoustic analysis, meticulously assessing reverberation times and sound behavior across the space. This study ensured that every design decision aligned with the optimal acoustic criteria for a peaceful and productive work environment.

To achieve the required acoustic performance, Kinetics installed **high-performance acoustic plaster systems**, a cutting-edge solution designed to seamlessly blend functionality with aesthetics. The acoustic plaster, composed of porous materials, was meticulously applied to walls and ceilings, offering superior sound absorption properties. By effectively dissipating sound waves, the system significantly reduced reverberation times, minimizing echoes and creating a balanced, quieter environment ideal for focused work.

This solution complimented the project's acoustic requirements, creating a space that enhances comfort and productivity while showcasing Kinetics' expertise in precise, elegant acoustic solutions.

## TECHNICAL DISCUSSION:

### KINETICS KME-PET PANELS – MEET THE AESTHETIC NEEDS WITH TIMELESS DESIGN.

The clean lines of the PET panel offer a timeless design solution to meet the aesthetic needs of nearly any interior space. Acoustical performance has been maximized, whether stand-alone or in an array.

PET panel is made by a process of tumbling, needle punching, and baking low and high melting point polyester fibres. The high-density fibrous network absorbs sounds and reduces reverberation.



FIGURE 1: IMAGE OF PET BAFFLES

#### Technical Specifications

ET panel, offering ultra-low VOC emissions and bleach clean ability. The material is formaldehyde free and 100% recyclable. It balances acoustical design with an emphasis on environmental wellness.

#### Material:

- 100% Polyethylene Terephthalate (PET).

**Sound Absorption Coefficient:** With layer thickness options of 8mm and 12mm, KME-PET PANELS achieves a Noise Reduction Coefficient (NRC) of up to 0.8. This means significant echo reduction and control over reverberation across a broad frequency range.

#### Key design features.

- Choice of 37 colors
- Lightweight & easy to handle
- Linear layout
- Modern design
- Excellent acoustical values

**Eco-Conscious Choice:** Made from sustainable materials, KME-PET PANELS aligns with green building practices and is safe for indoor environments.

**Customizable Finish:** Available in multiple shapes and colors —the PET Panels can be customized in colors according to the RAL color code, enabling integration into the existing design aesthetic of any space.

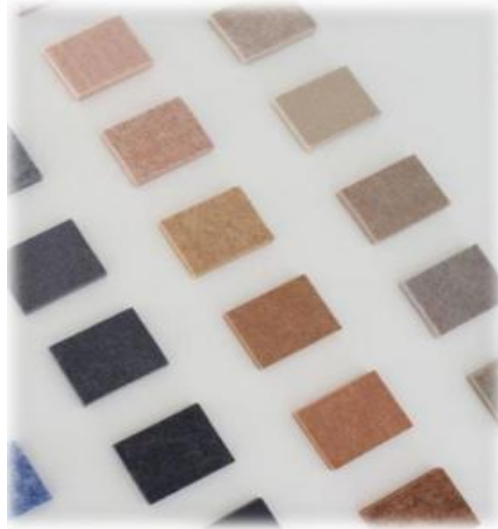


FIGURE 2:IMAGE OF DIFFERENT PET PANEL COLORS

### Applications

**Classrooms:** Improve acoustics for better sound clarity and concentration.

**Offices:** Enhance sound quality and reduce noise distractions.

**Recording Studios:** Perfect for managing sound reflections and reverberations.

**Restaurants:** Create a more pleasant and quieter dining environment.

**Lobbies:** Help control noise levels in high-traffic areas.

**Multi-purpose Rooms:** Ideal for rooms with various functions requiring effective sound management.

### Why Choose KME-PET PANELS?

KME-PET PANELS offer an effective, customizable, and eco-friendly approach to acoustic treatment. It not only improves the auditory experience but also enhances visual appeal, allowing architects, engineers, and building managers to create harmonious environments that balance form and function.



FIGURE 3: IMAGE SHOWING A RECENT PET PANEL INSTALLATION BY KINETICS

Discover the impact that KME-PET PANELS can bring to your space by reaching out to our team for tailored guidance on applications and specifications.



# PRODUCT HIGHLIGHT

## KINAIR Wall Mounted Fan Coil Unit

### SYSTEM SPECIFICATIONS

- The KWM ceiling cassette fan-coil unit is to have a low profile of 250mm.
- The airflow is from 340 to 1360 m<sup>3</sup>/h; cooling capacity from 1.98kw to 7.05kw.
- Project selection software is available for standard EUROVENT conditions, AHRI (ARI-440-2008) and district cooling conditions.



### STRUCTURE

- ABS plastic casing with elegant design.
- Metal parts with standard Q235 galvanized steel sheet
- Back installation GI panel are provided for production site easy installation.

### APPLICATIONS

KLS units for air conditioning are commonly used in commercial buildings like Hotel rooms and offices of cooling and heating .



Elegant cabinet and screen design, Remote controller is equipped as standard, Optional: network control with DIP switch. AC/ DC motor is available.

# Kinetics YouTube

## Farewell Ahmed Morsi!

Kinetics Group recently bid farewell to Mr. Ahmed Morsi, our Senior Project Engineer for the past five years.

As Ahmed embarks on a new chapter, we celebrate the incredible contributions he has made and express our deepest gratitude for his time with us.

Watch a short slideshow celebrating Ahmed's remarkable journey with Kinetics Group, including highlights from his farewell cake-cutting ceremony - Don't forget to subscribe.

[https://youtu.be/k\\_iQfOOQi5QA](https://youtu.be/k_iQfOOQi5QA)



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**"Kinetics delivered excellent service with timely responses and seamless coordination. Highly recommended!"**

**Engineer Gilbert Olegario  
(Electrostar Cool  
Electromechanical Contracting L.L.C)**

**"Kinetics stands out for their prompt responses, timely submittals, and flawless coordination."**

**Engineer Rahul JR  
(Dynamic Delta)**

**"Kinetics delivered excellent service with prompt responses to inquiries, effective coordination, and efficient site supervision and inspection".**

**Engineer Mitry Abuzolof (Direct  
Source Engineering LLC)**

