

# The Isolator

Kinetics Middle East – Newsletter Issue 11



## Allied Partners

### VIP Limited - UK

Valves Instrument Plus Ltd is an UK based manufacturer of Engineering & Plumbing products for the Construction industry. For over 30 years Valves Instruments Plus (VIP) have been supplying quality engineering and plumbing products to the construction, process and HVAC industries.

VIP manufactures wide variety of rubber flexible connectors that are WRAS approved suitable for potable water application. Kinetics Middle East are the exclusive Middle East distributors for VIP products.

<http://www.vip-ltd.co.uk/>

## Employee Spotlight

### Mohammed Saleh - Head of Acoustics

This month we would like to recognize Mohammed Saleh who heads the Acoustic Division of Kinetics Middle East LLC. Mohammed is an expert in the field of Acoustics and sub-contracts and has successfully executed many large-scale contracts from Design, Supply, Installation and Testing in a very professional manner for us. Mohammed embodies what it means to be a leader, a team player and a role model of Kinetics' core values. During his time off, Mohammed enjoys football and is enthusiast in travelling.

## Current Events

### Kinetics Noise Control, USA visit

Kinetics Noise Control, our principals, represented by Mr. Joerg Hutmacher, International Market Manager visited us from March 17 to March 21.

During the visit, many local clients, consultants and contractors were visited. Some of the visits included WSP, Allied Consultants, DAEP, Turner, Voltas, AE7 to name a few.

## Technical Discussion: Building Energy Management Systems (BEMS)

Managing the energy and other needs in buildings efficiently and intelligently can have considerable benefits Building Energy Management Systems (BEMS) control the functions of building, allowing a smooth operation and efficient functioning of the building/group of buildings by using computers and distributed microprocessors for monitoring, data storage and communication.

The figure illustrates a possible BEMS configuration in which multiple buildings are connected to each other and are connected via the internet to a central operating unit to allow smooth cooperation among the buildings and increase efficiency. Increased cooperation among different buildings through the BEMS allows for additional increased energy efficiency, as functions of the different buildings can be coupled. Some functional capabilities of BEMS are: Optimization of building and plant operations, Provision of energy management information, Remote monitoring and control of services and functions of one or several buildings.

Source:

<https://www.ctc-n.org/technologies/building-energy-management-systems-bems>



## PROJECT HIGHLIGHTS - ALOFT & ELEMENT HOTEL APARTMENTS, GARHOUD, DUBAI

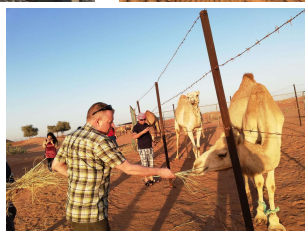
The project involves the construction of a 5-storey hotel and hotel apartments tower namely “Aloft Hotel & Element Hotel Apartments by Le Meridien”, located in Al Garhoud, Dubai. Aloft Hotel & Element Hotel Apartments by Le Meridien will feature 230 guestrooms and 89 serviced apartments along with a range of amenities including Swimming pool, Fitness center etc.

Kinetics Scope of supply for this project includes supply of:

1. Floating floor
2. Seismic restraints
3. Vibration isolators



## KINETICS NOISE CONTROL, USA VISIT



Our principals, Ms. Kinetics Noise Control, USA was in Dubai for to meet a few important Clients & Consultants. The visit included not just meetings and presentations, but some recreational activities too like desert safari, camel feeding and riding, trying local food and visit to the newly opened Presidential Palace in Abu Dhabi.

*Left: Some pictures of Kinetics Middle East team with Mr. Joerg Hutmacher of Kinetics Noise Control.*

## PRODUCT HIGHLIGHT OF THE MONTH KINETICS LSM LIFT SLAB FLOATING FLOOR

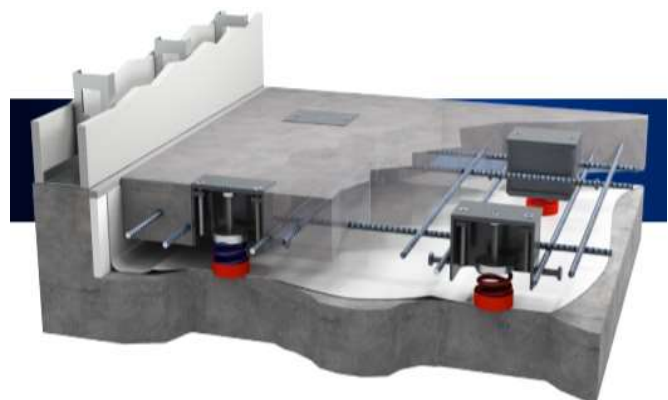
Lift slab floating floor systems that incorporate spring isolator assemblies to decouple concrete slabs from non-isolated structural floors are used where vibration and impact are critical and of greater concern than airborne noise transmission. In instances when vibration and/or impact noise control are severe, the air space beneath the spring-isolated floor is vented. This enables the composite construction to yield the lowest natural frequency ( $f_n$ ) possible thereby enhancing performance against lower disturbing frequencies.

**Applications:** Bowling alleys, weight rooms, gymnasiums, aerobic activities, and dance studios, sensitive lab measuring equipment

**Benefits:**

- Fabricated, made-to-spec-isolators housings permit flexible system design for a range of slab thicknesses, air cavities and/or loading options.
- Spring isolator’s natural frequencies ( $f_n$ ) of 3.13 Hz for 1” rated de flection springs and 2.21 Hz for 2” rated de flection spring.
- Factory-engineered shop drawings detail consider spacing, spring load/de flections and structural floor flatness requirements.
- Rubber cap assembly protects against resonant frequencies.

<https://kineticsnoise.com/lsm/spring-floor.html>



To contribute on the Newsletter’s Technical Discussion section or unsubscribe from the Newsletter, email the editor at [nithin@kineticsmiddleeast.ae](mailto:nithin@kineticsmiddleeast.ae)