

The Isolator

Kinetics Middle East - Newsletter Issue 4



Allied Partners

DEC International - Netherlands

Our Allied Partner DEC International, Netherlands is world leaders in flexible ducting, products. DEC products are customized with new applications & are known for having strict quality certification requirements, environment friendly with sustainable production capacity for years keeping socio economic balance.

DEC Product range are Laminated & Synthetic Ducts, Insulated & Semiflexible Ducts, Connectdec, sound attenuators, Air Valves, External Louvres, Control and shutter valves, Mounting, Sealing, Accessories.

You can view more details in website, <http://www.decinternational.com>

Employee Spotlight

Clara D'souza - Office Secretary

This month we shine the spotlight on one of our dearest employees, Clara. Joining the KME team in 2004, Clara is the glue that holds our team together. Acting as a mentor and confidant to all co-workers, she is the smiling face which greets you at the door and welcomes your call. Next year we will be celebrating her 15 years of service at KME, and we couldn't be more thankful and privileged to have such a caring, hardworking person share her time with us. Clara is more than just KME's backbone, she is the center piece for our entire operations. Please join me in this month, thanking Clara for being such a wonderful piece to our puzzle and her support she provides to us all on a daily basis.

KME Update

Implementation - ISO 18001 - OSHMS

This past month, KME has been awarded and implemented the OHSAS 18001, Occupational Health and Safety Assessment Series into our management systems. As a recognition and awareness to control and improve health and safety risks, reduce the potential for accidents, aid legal compliance and improve overall performance as a whole, KME strives to implement and incorporate all practices into the daily operations.

OHSAS 18000 standards can be integrated with other management systems and help organizations achieve better occupational health and safety performance and economic objectives.

Technical Discussion: Pitfalls of combining internal & external Equipment isolation

Air Handling Units, (AHU), and Fresh Air Handling Units (FAHU) have internal spring-type isolation for the intake and exhaust fans, these fans have operating speeds ranges from 400 - 1200 rpm. Assuming an imbalance in the fan wheel, these operating speeds produce a forcing frequency (f) that will range between **6.67 Hz** and **20 Hz**. There are many buildings that have natural frequencies of their structures that lie between **8 Hz** and **12 Hz**. If the forcing frequency (f) of the rotating components of the equipment is close to the natural frequency of the equipment on the springs, then excess vibration and sound energy will be transferred to the building structure.

Conclusion: Investigated, equipment that had external isolation only had lower transmissibility values than equipment with both internal and external isolation, the harmful effect decreases, produces better results.

http://kineticsnoise.com/hvac/pdf/g3_12_1.pdf

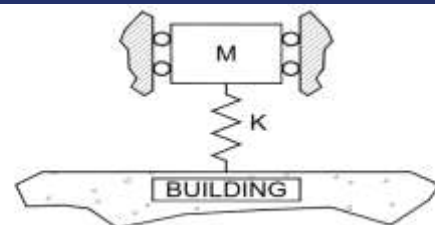


Figure G3.12.1-1: Basic Single Degree of Freedom Vibration Model.

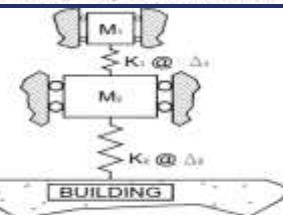


Figure G3.12.1-3: Basic Two Degree of Freedom Vibration Model.

PROJECT HIGHLIGHTS - JUMEIRAH BEACH CLUB RESORT

The project Jumeirah Beach Club Resort includes a seven story with two basement levels, will feature 256 premium rooms including suits and villas, amenities will include multipurpose hall, business center, multifunctional rooms, and a 525 square meter glass-walled room that opens into a landscaped beachfront terrace. The project will have a built-up area of 67,490 square meters and will also offer other facilities like: 2,800 square meter Spa, Dedicated Beach Club, Infinity Pools and Landscaped Gardens, Gymnasium, Tennis and Squash Courts, Club for Children, A Range of Retail Shops, Six Restaurants including; a signature pier-top dining destination with dedicated docking facilities for guests arriving by private yacht.

Kinetics scope includes: Supply of over 2500 sqm of Floating floor materials.



Networking - Philippine Society of Mechanical Engineers UAE Chapter 9th Annual Meet

In efforts to engage and participate with our networking professionals, consultants & associations KME is continuously in touch to explore the best possible participations. Philippine Society of Mechanical Engineers, United Arab Emirates Chapter had 9th Annual Anniversary & General Membership Meeting held on 10th August 2018 at Dusit Thani Hotel, Zheikh Zayed Road, Dubai UAE. Kinetics Middle East was invited as a guest in this event which has been represented by Mahendra Dhawley - Senior Marketing & Business development Engineer. We have presented KME products to the participants and received honor and appreciation for supporting the event. The event included product presentations, key note address, product exhibition & speeches.



PRODUCT HIGHLIGHT OF THE MONTH

QuakeStrut Rigid Seismic Bracing Model KSSB - FM approved

QuakeStrut is an attachment for rigid channel bracing when tight ceiling conditions do not allow for the use of cable restraint kits. QuakeStrut is available with or without attachment hardware. QuakeStrut-1 is used when you are through bolting to strut and offers an economical rigid bracing option. QuakeStrut-2 is the full assembly with all of the hardware to connect to strut. Both options are FM Approved Class 1950. Strut is by others for both assemblies.

QuakeStrut-2 (model KSSB -2) includes.

- (1) KSSB-2 full assembly consisting of (1) Male and (1) female bracket element
- (2) Torque breakaway bolts with (2) strut for attachments to the strut, and (1) Pivot bolt with (1) lock nut.



QuakeStrut-1 (model KSSB-1) is designed to mount directly to strut channel with the attachment hardware provided by others. Includes:
(1) KSSB-1 bracket



QuakeStrut-2 (model KSSB-2) is designed with an additional bracket with two strut nuts to mount the bracket to the strut channel without any additional hardware.