

Acoustic Decoupling Measures Plan

for

Contract No. HY/2012/07 Tuen Mun Chek Lap Kok Link – Southern Connection Viaduct Section

J3518

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1 INTRODUCTION

1.1 Project Descriptions

Gammon Construction Limited (GCL) has been commissioned to design and construct the Contract No. HY/2012/07 – Tuen Mun Chek Lap Kok Link – Southern Connection Viaduct Section for the Highways Department (HyD) of the Government of the Hong Kong Special Administrative Region (HKSARG). The Works to be executed comprise the construction of a dual 2-lane elevated carriageway between the HZMB HKBCF and North Lantau Highway (NLH) with associated slip roads, as well as modifications and realignment of sections of the NLH and Cheung Tung Road at North Lantau, and associated works.

2 PURPOSE OF THE PLAN

The Acoustic Decoupling Measures Plan (ADMP) has been developed in accordance with Condition 2.5 of the Environmental Permit (EP-354/2009/A) for the Highways Department Contract namely Contract No. HY/2012/07 – Tuen Mun Chek Lap Kok Link – Southern Connection Viaduct Section.

The ADMP shall describe the measures to be taken to minimize impacts to marine ecological environment when carrying out bored piling, dredging and reclamation works.

The location of the Contract is illustrates in **Appendix A**.

3 MARINE CONSTRUCTION NOISE SOURCES

3.1 Bored Piling Work

Bored piling, instead of percussive piling, will be undertaken with permanent steel casing for construction of the substructures of piers. Low-vibration hammers will be used to install the casings into the seabed following the alignment control guides set on the platform.

In order to minimize impacts to Chinese White Dolphin (CWD) by bored piling, dolphin exclusion zone of 250m around the work area will be implemented and monitored by independent dolphin observers. Dolphin observers shall scan the exclusion zone at least 30 minutes before start of bored piling works, to ensure CWD not being disturbed.

3.2 Working Vessels and Platforms

According to Section 8.11.9.29 of the approved EIA Report, the expected acoustic disturbance from large vessels is well below the primary acoustic range for CWD which in general show the increased use of high-frequency sound. As such, main engines of the proposed working vessels are not considered to be a significant source of acoustic disturbance to CWD. However, there is still a small possibility that noise would be transmitted from the onboard equipment (e.g. air compressor) into the sea (Section 8.14.4.13 of the approved EIA Report). Therefore, acoustic decoupling measures for noisy equipment which are not embedded on vessels are required to minimise the possible noise impact on marine ecology.

Stationary powered mechanical equipments mounted on boards of working vessels or platforms, when operating, may generate vibration or noise through the hull if they are directly placed on the deck without proper isolation. These common equipments on board are summarized in Table 1:

Table 1 Summary of Noisy Equipment Identified on Working Vessels

Working Vessel	Noisy Equipment identified on Working Vessel
Derrick Lighter	Generator (Diesel, 35.81kW, 1.5 Tons approx.)
Jack-Up Platform	Generator (Diesel, 44.76kW, 3 Tons approx.) Generator (Diesel, 4.48kW, 1 Ton approx.)
Flat Top Barge	Generator (Diesel, 4.47kW, 1 Ton approx.) Generator (Diesel, 80.57kW, 5 Tons approx.) Air compressor (Diesel, 7bar, 1 Ton approx.)
Hopper Barge	No noisy equipment will be provided onboard.
Crane Barge	No noisy equipment will be provided onboard.

In order to minimize the noise transmission to the sea, acoustic decoupling measures for the stationary equipment mounted on boards will be adopted. Sample of stationary powered mechanical equipments on working vessels is illustrated in **Appendix B**.

4 ACOUSTIC DECOUPLING MEASURES

4.1 Working Vessels and Platforms – Isolation Pad

Noise isolation pad is proposed to separate the stationary equipments from the decks or hulls in order to reduce noise transmission to the sea via the working vessels or platforms.

Instead of directly mount on decks, noisy equipments will be fixed on noise isolation pad. Prior to installation, GCL will ensure the foundation of equipments is flat and level. Adequate clearance all around the noisy equipment will be kept to avoid direct vibration transmission to other materials and machineries. The dimensions of the proposed isolation pad for the identified noisy equipments are listed in Table 2.

Table 2 Summary of Noisy Equipment Identified on Working Vessel

Proposed Working Vessel	Noisy Equipment identified on Working Vessel	Dimensions of the Proposed Isolation Pad (L x W x H)
Derrick Lighter	Generator (Diesel, 35.81kW, 1.5 Tons approx.)	2m x 1m x 30mm approx.
Jack-Up Platform	Generator (Diesel, 44.76kW, 3 Tons approx.) Generator (Diesel, 4.48kW, 1 Ton approx.)	2m x 1.3m x 30mm approx. 1.5m x 1m x 30mm approx.
Flat Top Barge	Generator (Diesel, 4.47kW, 1 Ton approx.) Generator (Diesel, 80.57kW, 5 Tons approx.) Air compressor (Diesel, 7bar, 1 Ton approx.)	1.5m x 1m x 30mm approx. 3m x 1.5m x 30mm approx. 1.5m x 3m x 30mm approx.

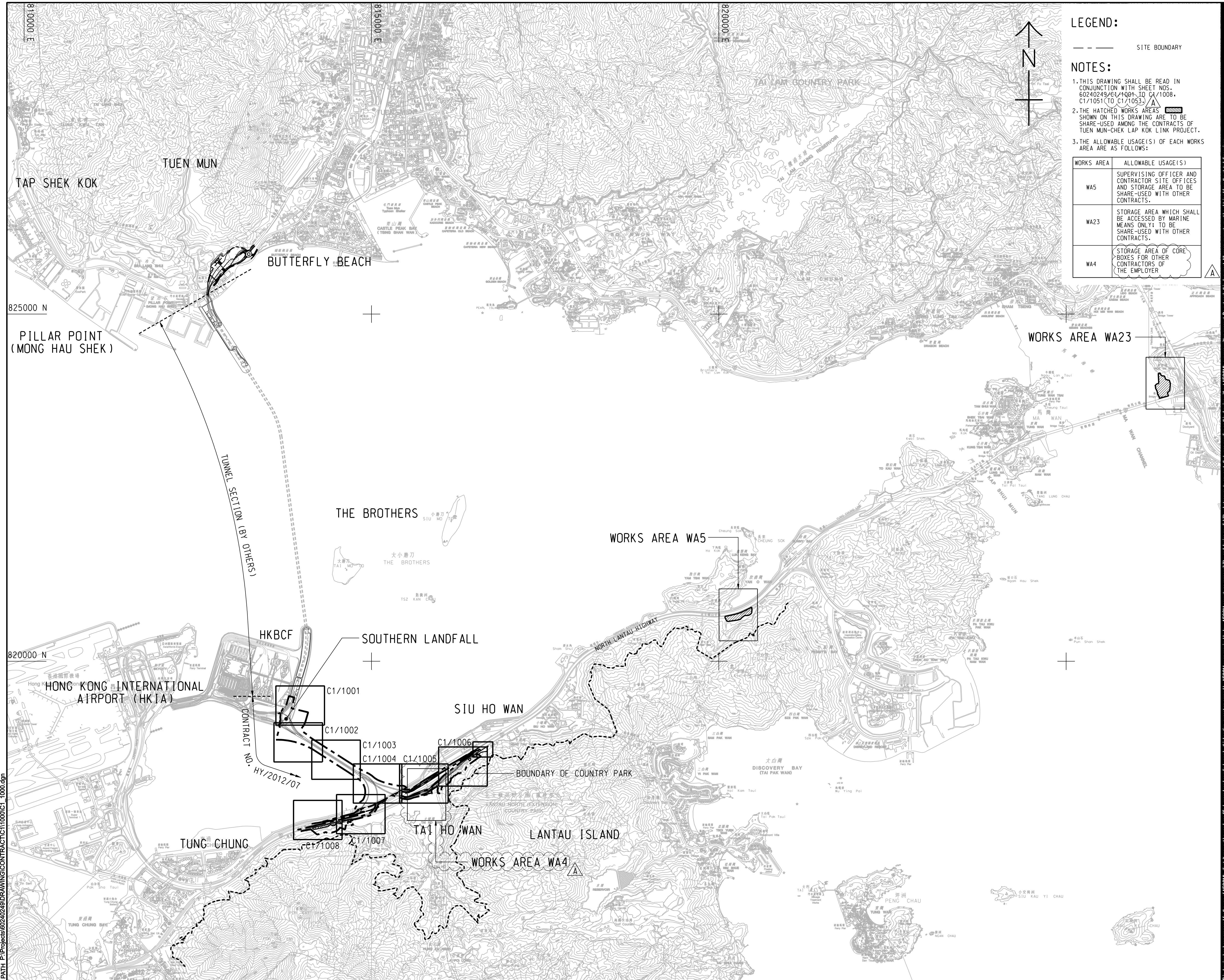
Three type materials of isolation pad are proposed to be used for noisy equipments identified on working vessel, the details are given in **Appendix C, Appendix D and Appendix E**.

4.2 General Notes to Install the Measures

- To forbid direct vibration transmission, adequate plinth clearance shall be kept all around.
- Close all panels or doors of generators when in use.
- To avoid noise breakout and the undesirable sound paths through gaps, the foundation where the equipment to be placed shall be flat and level.
- To further eliminated the sound generation from noisy parts, flexible bellows silencers, mufflers shall be applied when necessary.

APPENDIX A

Site Location Plan



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APPENDIX B

Samples of Stationary PMEs on Working Vessels



Type A – Generator on vessel board

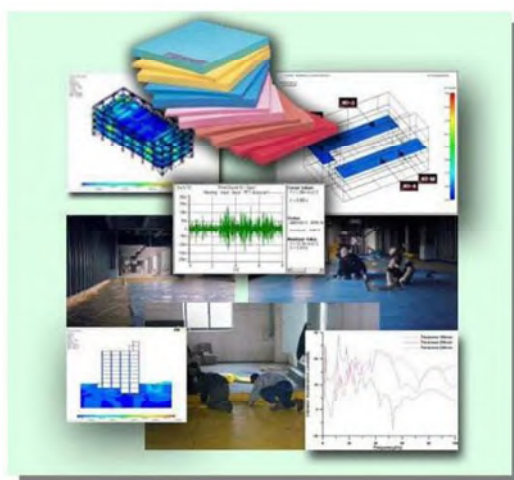


Type B – Air compressors on vessel board

APPENDIX C

Proposed Isolation Pad Details – PO MAT


Technical Data (PD-MAD)



CONTENTS

1. General Information of PO–MAT
 2. Size of PO–MAT
 3. Durobllity Test Result
 4. Comparison of Technical Data
 5. Application Data for PO–MAT
 6. Comparison of Installation/Major Characteristics
for PO–MAT
-

1. General information of PO-MAT



With forming air layers inside, micro-cellular Polyurethane mat offers good elasticity and is applied in a wide range of dynamic load. In particular, since the load is uniformly distributed in full measure, the thickness of floating slab can be reduced. Noise-insulated active materials whose elasticity is maintained by amt itself, the product does not need Floating slab-ascending work.

The colors can be application to design work

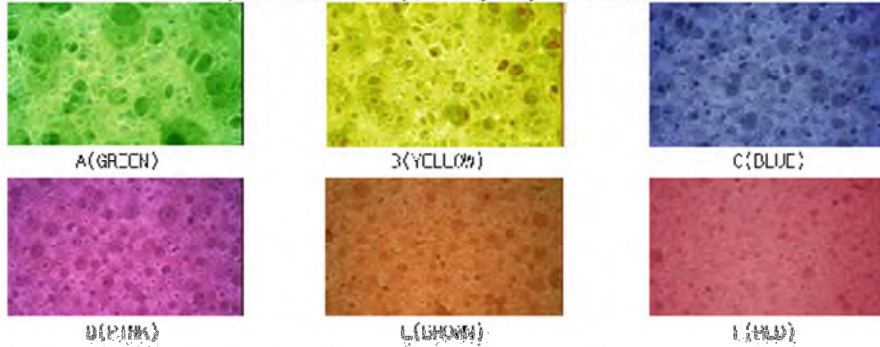
2. PO-MAT Range

MODEL	A12	A25	B12	B25	C12	C25	D12	D25	E12	E25	F12	F25
THICKNESS	12	25	12	25	12	25	12	25	12	25	12	25
COLOR	GREEN		YELLOW		BLUE		PINK		BROWN		RED	
DENSITY (kg/m ³)	150±10		220±10		300±10		400±10		500±10		600±10	
RATED LOAD (N/mm ²)	0.007		0.024		0.052		0.1		0.2		0.4	
RATED DEF.(mm)	4.0	8.2	3.6	7.5	3.3	6.8	3.0	6.0	2.8	5.8	2.5	5.2
PRODUCTION VOLUME	Owned Manufacturing Facilities:100~150m ² /Day(8Hrs/Day)											
PRODUCTION SIZE	[1,000mm x 1,000(500)mm x THICKNESS]											
MANUFACTURING PROCESS	1. Pouring Polyol and MDI in a tank. 2. Heating ingredients. 3. Mix POLYOL and MDI by SHOOTER. 4. Pouring the mixed ingredients to a mold as suitable density. 5. Forming. 6. Removing mold and scraps. 7. Work condition: 1) regular heating temperature, air pressure and mold temperature, 2) regular forming time											

Proposed material for the contract

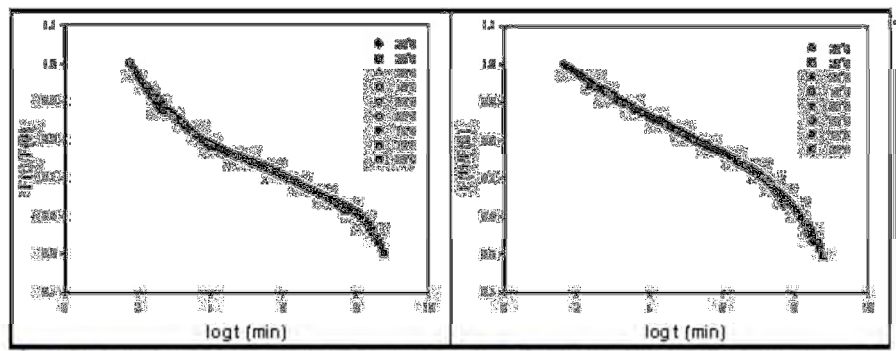
3. Durobility Test Result

■ PO-MAT surface per each density(enlarge by 100times)



■ Durability tes by TTS(Time-Temperature Superposition)

■ Responsibility: Ph.D Yungwook, Jang, Chemical Engineering, Hanyang Univ.

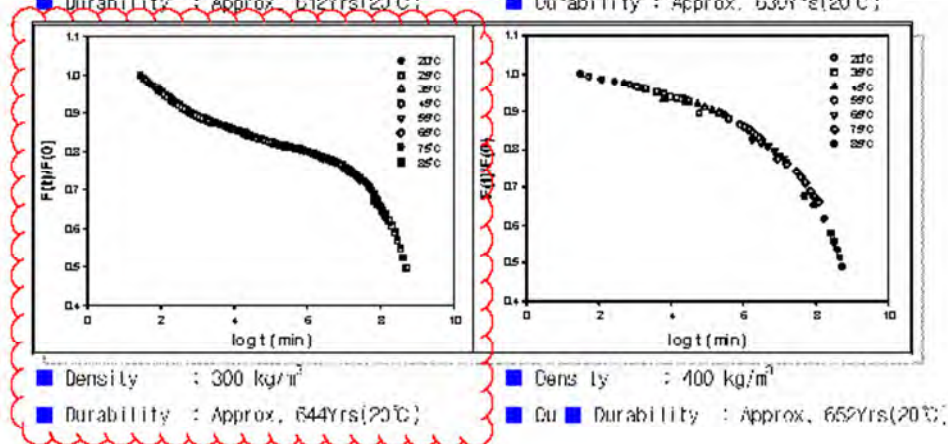


■ Density : 150 kg/m³

■ Durability : Approx. 612Yrs(20°C)

■ Density : 220 kg/m³

■ Durability : Approx. 630Yrs(20°C)

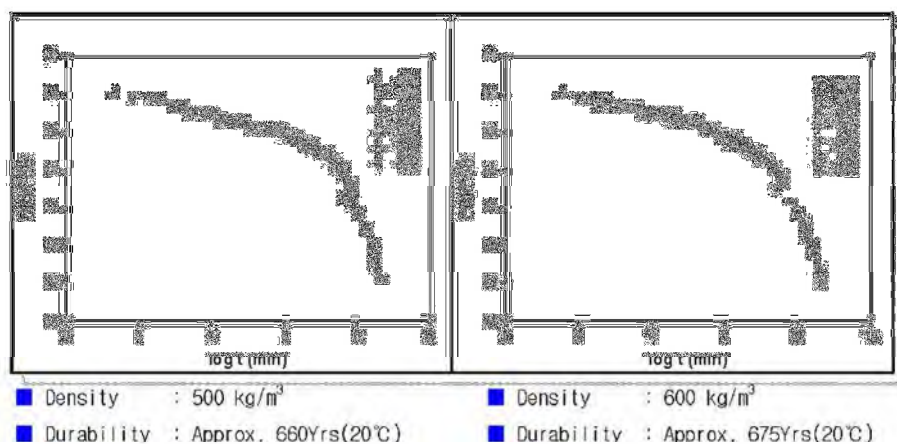


■ Density : 300 kg/m³

■ Durability : Approx. 644Yrs(20°C)

■ Density : 400 kg/m³


■ Durability : Approx. 652Yrs(20°C)



4. Comparison of Technical DATA

■ Candidates : Spring Mounts, Rubber Mounts, PO MAT.

■ Material Properties

NO.	ITEM	Material Type			REMARK
		SPRING	RUBBER	POLYURETHANE	
1	Photos				
2	Model	FSL2	NSWP	PO-MAT	
3	Type	COIL	PAD	NAT	
4	Loading Area	POINT	500x500mm	1000x1000mm	

■ Noise and Vibration Properties

NO.	ITEM	Material Type			REMARK
		SPRING	RUBBER	POLYURETHANE	
1	Viscosity	—	■	☉	
2	Static load(kgf/mm ²)	—	—	0.50	
3	Elastic strain(%)	—	about 20	up to 50	
4	Virtual load ratio	about 4.0	3.3	2.5	
5	Operating load capacity	☉	◆	☉	

■ Remark:Excellent★, Very Good☉, Good◆, Normal▲, Not Good■, Not Applicable▼

■ Physical Properties

NO.	ITEM	Material Type			REMARK
		SPRING	RUBBER	POLYURETHANE	
1	Ultimate strength	—	200-260	up to 500	
2	Coefficient to expansion	—	630%	260%	
3	Tensile Strength	◆	◆	◎	
4	Creep resistance	■	◆	◎	
5	Abrasion	★	◆	◆	
6	Cracking resistance	■	◎	◎	
7	Tearing Resistance	Drying	◆	◎	
		Oil impregnation	■	◎	
8	Heat resistance	★	—	—	
9	Cold resistance	◆	◆	◎	
10	Permanent bend	◆	◆	◆	
11	Manufacturing capacity	▲	◆	◎	
12	Density(kg/m ³)	—	up to 450	up to 1500	
13	Using Temperature	◎		◆	

■ Remark: Excellent ★, Very Good ◎, Good ◆, Normal ▲, Not Good ■, Not Applicable ▼

■ Chemical Properties

NO.	ITEM	Material Type			REMARK
		SPRING	RUBBER	POLYURETHANE	
1	Adhesion capacity	—	◎	★	
2	Oil resistance	◆	◆	◎	
3	O zone resistance	★	◆	◎	
4	Ageing resistance	◆	◆	★	
5	Biological Resistance	★	◎	★	
6	Water & Aqueous Solution	★(Corrosion)	◎	★	
7	Formic acid	◎(Corrosion)	■	▲	
8	Acetic acid	◎(Corrosion)	■	◎	
9	Phosphoric acid	◎(Corrosion)	▲	★	
10	Oils & Greases	◎(Corrosion)	◎	★	
11	Glycerol	◎(Corrosion)	◎	★	
12	Glycol	◎	◎	★	
13	Hexane	◎	◎	★	

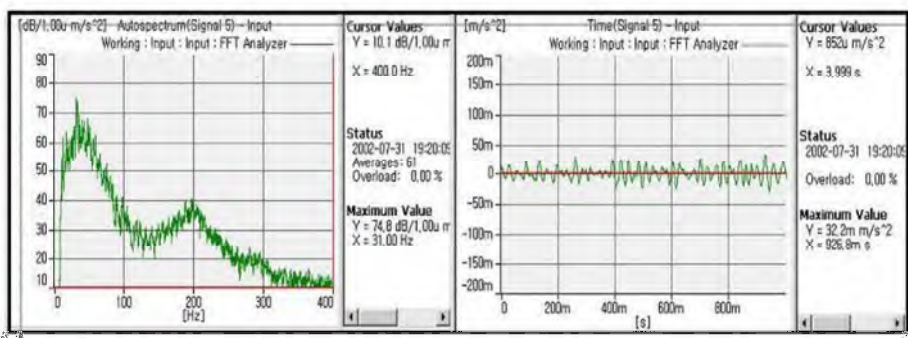
■ Remark: Excellent ★, Very Good ◎, Good ◆, Normal ▲, Not Good ■, Not Applicable ▼

5. Application Data for PO-MAT

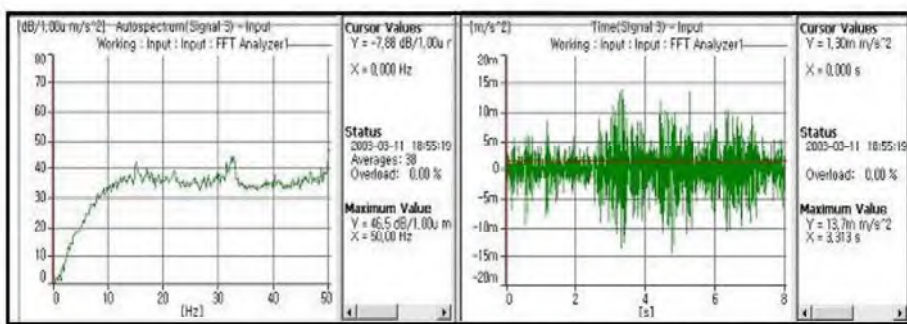
■ Structural Vibration Proofing(Metro)



■ Outline of PO-MAT installation once subway train passes

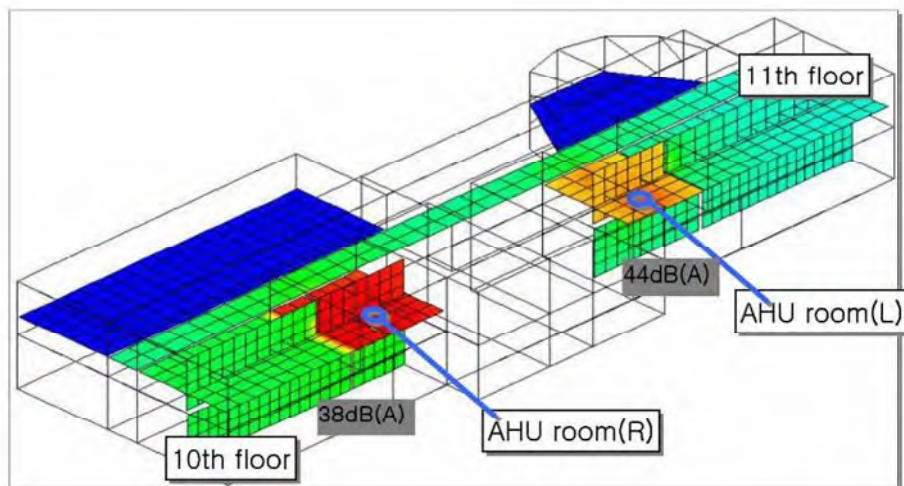
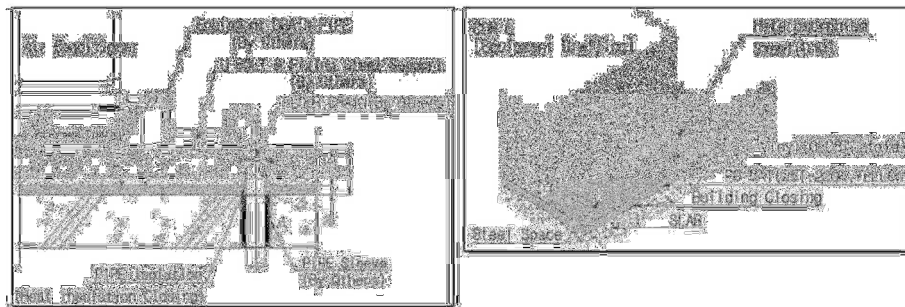
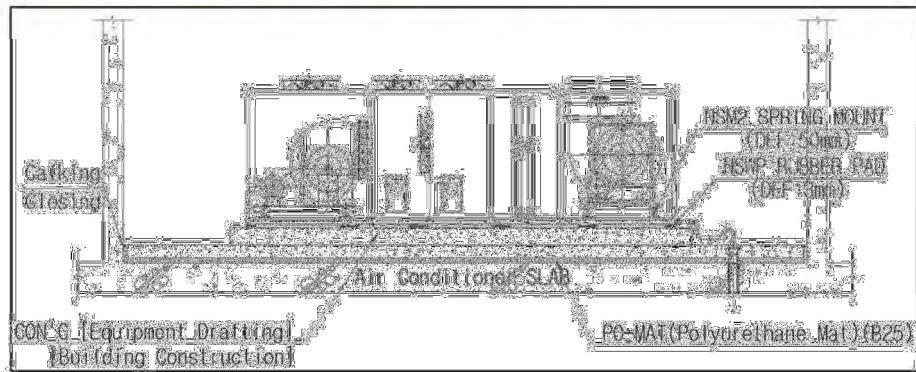


■ Vibration analysis DATA once subway train passes before PO-MAT installation

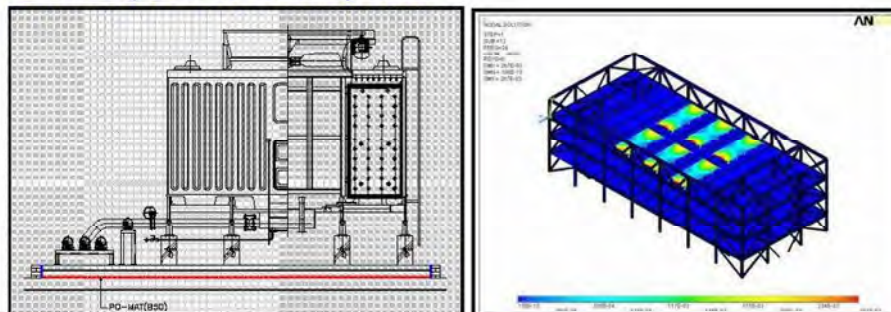


■ Vibration analysis DATA once subway train passes after PO-MAT installation

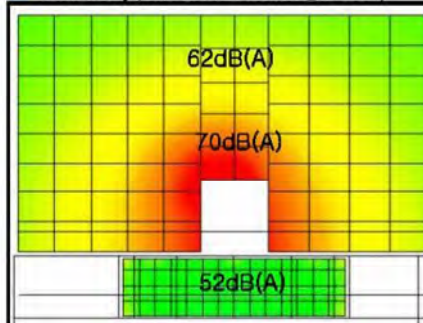
■ Floating Floor on Machine Room(AHU Room)



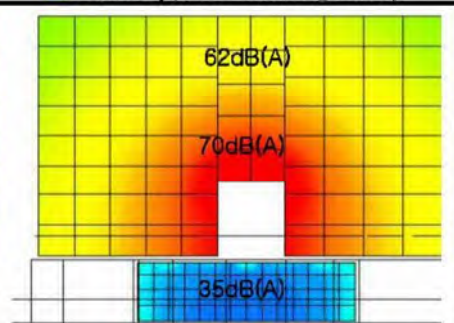
■ Floating floor for cooling tower



■ Cut way(before floating floor)



■ Cut way(after floating floor)



■ Noise measurement result for cooling tower on the roof(after floating floor)

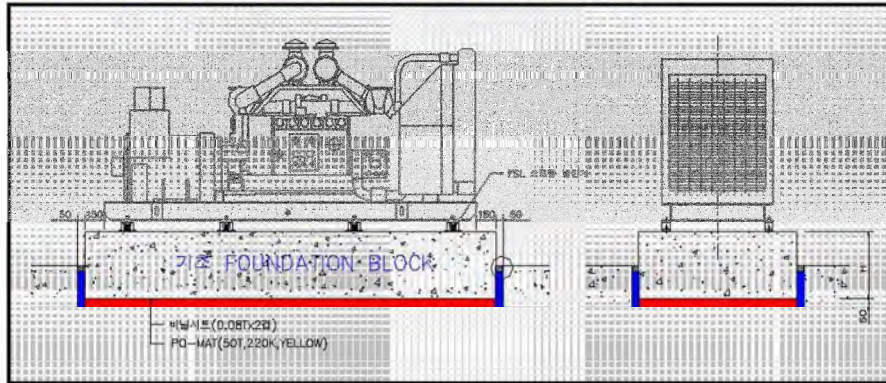
Location	Point	B.G.	CT	Δ	Remarks
Attic	1	52.9	70.5	+17.6	—
	2		75.4	+22.5	—
	3		74.6	+21.7	—
	4		77.5	+24.6	—
Underlying Layer	5	32.8	34.0	+1.2	—
	6	38.5	39.2	+0.7	—



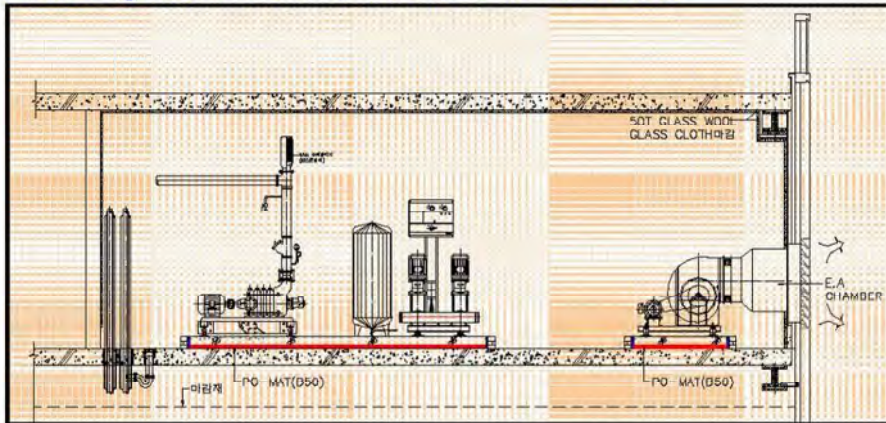
■ Floating Floor on Roof of Building for Cooling Tower



■ Floating Floor in Machine Room(Generation Room)



■ Floating Floor in Machine Room on Mid-Level Floor





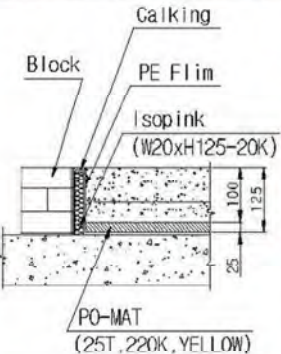
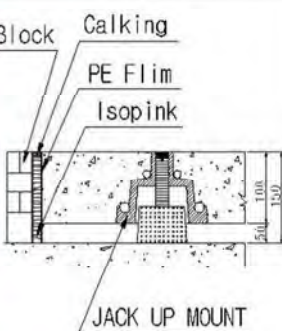
■ Other Special Structural Vibration Proofing



Amusement Park / Bumper(ship) / Metro Office / special application

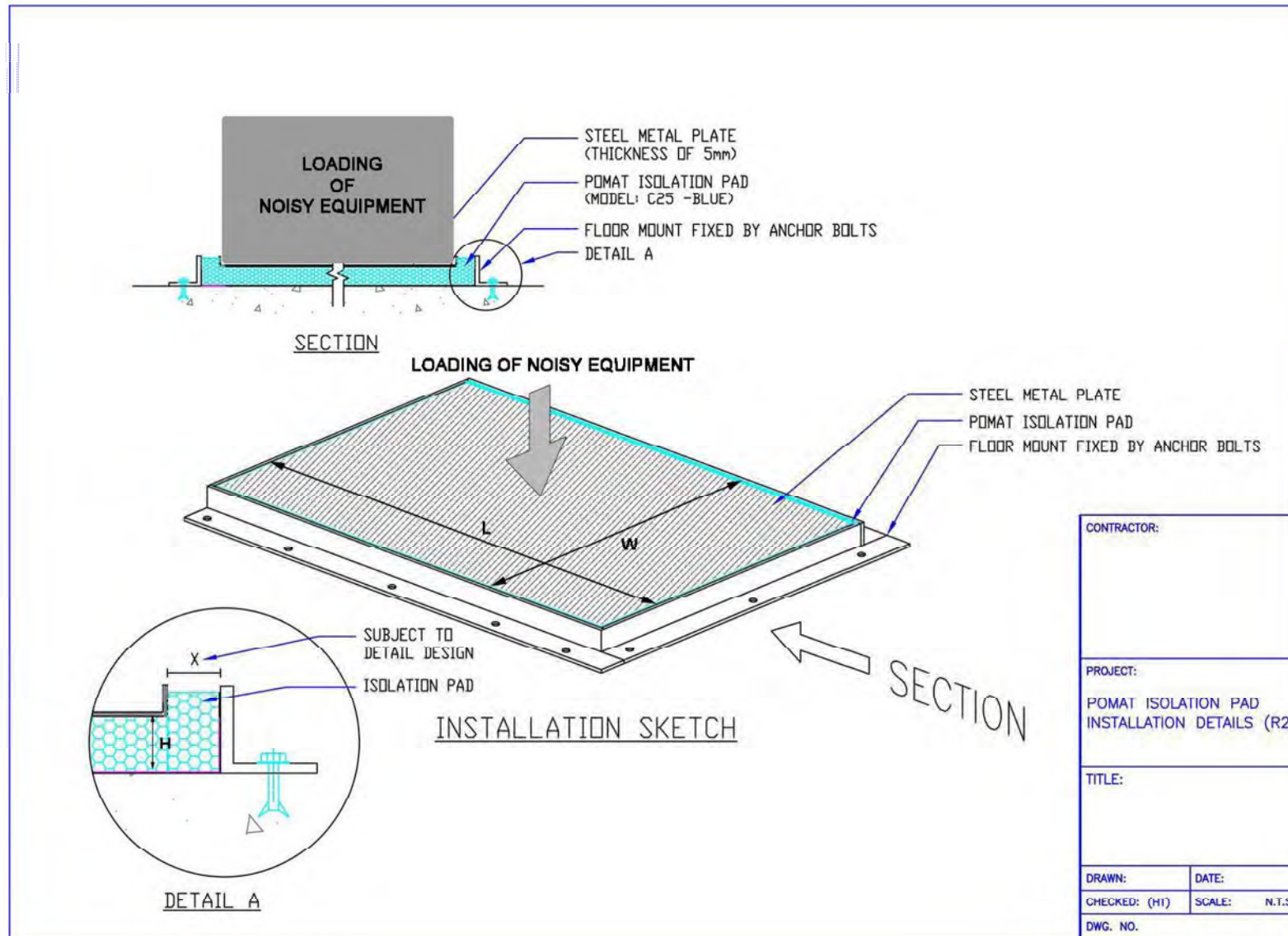
6. Comparison Data (PO-MAT vs Jack-Up System)

■ Comparison data for Floating Floor System

SYSTEM ITEM	PO-MAT SYSTEM (Polyurethane Mat)	JACK-UP SYSTEM
Feature		
Consist	Single formular of Polyurethane Identified by color(density)	Engineering plastic + Neoprene mount
Cut way of installation		
Installation	1) Covering PO-MAT 2) Wire work after covering vinyl sheet 3) Concrete work and dry	1) Vinyl sheet cover, install jack-up mount 2) Wire work and concrete work 3) Dry and lifting floor
Noise absorbing layer	Absorbing noise by PO MAT	Absorbing noise by air and jack-up mo
Vibration absorbing efficiency	10~15dB	5~10dB
Tansmission Loss(IL)	52~54dB	52~54dB
Installation Characteristics	1) Durobility is permanent as the m is made of Polyurethane 2) Lifting work is not neccessary 3) Easy installation, short and stabl construction period. 4) Distributed Load Application 5) Low Natural Frequency	1) Durobility is semi-permanent as the mount is made of Neoprene 2) Lifting work is necessary 3) Complicated installation, long perio 4) Concentration Load Application 5) High Natural Frequency
Model	PO-MAT : A,B,C,D,E,F TYPE 6 models applicable	4UM MOUNT: 300,650,800kg 3 models applicable

■ Comparison of installation(PO-MAT vs JACK-UP)

PO-MAT SYSTEM	JACK-UP SYSTEM
 <p>Spread PO-MAT on floor after cleaning</p>	 <p>Sep-up Jack-up mount on vinyl sheet after cleaning</p>
 <p>Spread 2 layers of vinyl sheet in the PO-MAT</p>	 <p>Reinforcing on the Jack-up mount</p>
 <p>Wiremesh & Concrete</p>	 <p>Complete reinforcing</p>
 <p>Drying concrete</p>	 <p>Drying concrete & Lifting floor</p>



APPENDIX D

Proposed Isolation Pad Details – K-FLEX ST

**QUALITY INSULATION FOR REFRIGERATION,
AIR CONDITIONING, HEATING AND PLUMBING
APPLICATIONS.**

**μ 7000
CFC free
HCFC free
Ozone depletion
potential of zero**

**K-FLEX
ST
cl. 0**



L'ISOLANTE K-FLEX

SISTEMA DI GESTIONE
QUALITÀ
UNI EN ISO 9001:2000
CERTIFICATO DA CERTIQUALITY

K-FLEX ST

K-FLEX ST offers all the technical characteristics required to insulate chilled water and refrigerated pipework, hot and cold water services, heating systems and air ducts in commercial, industrial and public buildings where cost/quality are of paramount importance.

Tube size range: length 2 metres

thickness

6 • 1/4"

9 • 3/8"

13 • 1/2"

19 • 3/4"

25 • 1"

32 • 1 1/4"

Diameters from
6 to 160 mm



Proposed material
for the contract

Sheet rolls

Thickness mm	1 metre wide	1,5 metre wide	Self adhesive sheets
6	30 x 1	30 x 1,5	6
10	20 x 1	20 x 1,5	10
13	14 x 1	14 x 1,5	13
16	12 x 1	12 x 1,5	16
19	10 x 1	10 x 1,5	19
25	8 x 1	8 x 1,5	25
32	6 x 1	6 x 1,5	32
40	4 x 1	4 x 1,5	
50	4 x 1	4 x 1,5	



Sheet flat

Thickness mm	2m x 1m m ² /box	2m x 0,5m m ² /box
6	48	24
10	32	16
13	24	12
16	20	10
19	16	8
25	12	6
32	10	5
40	8	4
50	6	3



Data sheet

Temperature range	-200 °C max +116 °C **	Corrosion risk	DIN 1988/7; pH neutral
Thermal conductivity λ, W/(mK) EN 12667 (DIN 52612) EN ISO 8497 (DIN 52613)	-20 °C = 0,034 0 °C = 0,036* +20 °C = 0,038	Data ecological	No Diphenyl oxide HFC/KW - FCKW free No Formaldehyde - Gd
Water vapour diffusion resistance factor (μ) EN 12086 (DIN 52615)	> 7000	Closed cell	>95%
Water vapour permeability (23 °C) EN 12086 (DIN 52615, BS 4370) EN ISO 12572	$\delta = 10^{-9} \frac{\text{Kg}}{\text{m}^2 \cdot \text{Pa} \cdot \text{h}}$	Ozone resistance	Good
		Resistance to oil and greases	Good
		Resistance to fungus and parasite	Good
		Resistance to agent atmospheric	Good
		Noise reduction	Max 35 dB (A)
		Odor	Negligible
Fire	CL 1 (I)* Brandenklasse 5-2 (CH) B1 DIN 4102 (D)* (ABP-P3346-1021-MPA BS) DIN 4102 Teil 11 (Wand- und Dachendurchführung) M1-NF (F)* PII/NIT 03.6 (SK)* B1 ONORM B38000 (A) BS 476 Part 6 1989 CLD (UK)	Schallabsorption nach EN ISO 11654	Absorberklasse D

* Supervised
** In case of product application under -150 °C please
contact our Tech. Dep.

L'ISOLANTE K-FLEX reserves the possibility to vary data and technical requirements without notice.



L'ISOLANTE K-FLEX

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e-mail: international@isolante.com
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APPENDIX E

Proposed Isolation Pad Details – Kinetics ISOlayment QT-B

Recycled Rubber Noise Control Floor Underlayments

/ISOLayment QT*



Features

- Low-cost, recycled rubber noise control underlayment
- Extensively tested at the top labs in the USA
- Two (2) Styles: Flat (F) and Bumpy (B) in full rolls
- Available in eight (8) standard thicknesses; other thicknesses available
- Easily installed over sheathing, planking, concrete, and gypsum concrete
- Accepts a wide range of finished floor materials including vinyl sheet, stone, wood, and gypsum concrete
- Combine with KINETICS' [WAVE Hanger](#), [IsoMax](#), and [ICW](#) to maximize performance in wood-framed construction

It's like this: You want a low-cost, easy-to-install floor underlayment to ensure you at least meet current building code in your multi-family high rise, dormitory, or mixed-use development. Yet, you want a product manufactured in the USA that has been extensively tested, meets all established indoor air quality standards, outperform similar low-cost underlayments such as cork or foam plastic, and can help contribute LEED points for your project.

KINETICS offers the solution: [/ISOLayment QT](#). KINETICS [/ISOLayment QT](#) rubber noise control underlayment

features patented QT Impact Sound Isolation Technology. North America's largest manufacturer of recycled rubber products supports KINETICS' efforts to offer our customers the broadest range of isolation products for ceilings, floors, and walls. You can have a single-source for all your project's isolation requirements. By partnering with the folks who created QT Impact Sound Isolation Technology, KINETICS has ready access to a large test report database as well as a trove of information covering installation of a wide range of finished floor products over top of recycled rubber underlayments.

Available in Two Styles

KINETICS [/ISOLayment QT](#) is available in two styles: Flat (F) and Bumpy (B). All rolls are 48-inches wide. Flat (F) rolled products are available in standard thicknesses of 2mm, 5mm, 10mm, and 15mm. Bumpy (B) rolled products are available in standard thicknesses of 6mm, 10mm, 17mm, and 25mm. Let us know if you need thicknesses other than standard. Special requests are not a problem.

Installation Guidelines

KINETICS [/ISOLayment QT](#) can be installed over plywood sheathing, concrete floors, heavy timber planks, and gypsum concrete. Finished flooring products including concrete, ceramic tile, vinyl sheet and LVT, stone, wood, and gypsum concrete can be applied directly to KINETICS [/ISOLayment QT](#).

LEED Certification

Made from 92% recycled rubber content, KINETICS [/ISOLayment QT](#) provides an environmentally responsible solution for quality sound control. It is designed to meet the stringent criteria required to earn points in multiple categories for LEED certification. Additionally, KINETICS [/ISOLayment QT](#) passed the strictest indoor air quality tests and assurance methods for low emissions of total volatile organic compounds (VOCs).



CREATE QUIET

/ISOLayment QT* Test Reports Summary

Concrete Slab and Composite Deck - Acoustical Lab Test Reports

Floor Description	Ceiling	Finish	/ISOLayment	IIC	AIIIC	STC
6" Concrete Slab	No	Bare	No	27		
6" Concrete Slab	No	Vinyl Sheet	QT-F05	53	23	
8" Concrete Slab	No	Bare	No	32		
8" Concrete Slab	No	Engineered Wood	QT-F02W	54		
8" Concrete Slab	No	Quarry Tile	QT-F05	50		
8" Concrete Slab	No	Quarry Tile	QT-F10	53		53
8" Concrete Slab	No	Quarry Tile	QT-F12	55		55
4" Concrete Hambro D500 System	one (1) layer 1/2" GWB on furring channel	Engineered Wood	QT-F10W	51		54

Wood-Framed with Fiber Glass - Acoustical Lab Test Reports

Floor Description	Ceiling	Finish	/ISOLayment	IIC	STC
3/4" gypsum concrete over 3/4" OSB on 18" open web wood joists	one (1) layer 5/8" GWB on RC Deluxe channel ceiling	Ceramic Tile	QT-F06 directly under tile	53	55
1" gypsum concrete over plywood on 2x10 wood joists	two (2) layers 5/8" GWB on RC Deluxe	Bare	QT-B06/3 directly under gypsum concrete	53	
1" gypsum concrete over plywood on 2x10 wood joists	one (1) layer 5/8" GWB on RC Deluxe	Vinyl Sheet	QT-B06/3 directly under gypsum concrete	53	
1" gypsum concrete over plywood on 2x10 wood joists	one (1) layer 5/8" GWB on RC Deluxe	Stone Tile	QT-B06/3 directly under gypsum concrete	51	
1" gypsum concrete over plywood on 2x10 wood joists	two (2) layers 5/8" GWB on RC Deluxe	Vinyl Sheet	QT-F05 directly under gypsum concrete	53	
3/4" plywood on 12" wood I-joists	two (2) layers 5/8" GWB on WAVE Hanger suspended furring channels	Engineered Wood	QT-F03 directly under wood floor	57	60
5/8" plywood over 3/4" plywood on 12" wood I-joists	two (2) layers 5/8" GWB on WAVE Hanger suspended furring channels	Ceramic Tile	QT-F03 directly under tile	56	61

Post-Tensioned Concrete - Field Test Reports

Floor Description	Ceiling	Finish	/ISOLayment	FIIC
Eight-inch (8") PT Slab	No	Ceramic Tile	QT-F05 directly under tile	59
Eight-inch (8") PT Slab	No	Ceramic Tile	QT-F10 directly under tile	60
Eight-inch (8") PT Slab	No	Bare	No	35
Seven-inch (7") PT Slab	No	Ceramic Tile	QT-F05 directly under tile	51
Seven-inch (7") PT Slab	No	Wood Plank	QT-F05 directly under tile	56
Seven-inch (7") PT Slab	No	Bare	No	33

*KINETICS /ISOLayment QT is available exclusively from Kinetics Noise Control, Inc. and its representatives. The product is fully supported by the USA manufacturer of QT Impact Sound Isolation Technology which means our product is made to the exact same standards as QT Sound Insulation. Test reports, technical information, installation guidelines, and other data for QT Sound Insulation apply equally to /ISOLayment QT.



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Kinetics Noise Control, Inc. is continually upgrading the quality of our products. We reserve the right to make changes to this and all products without notice.

/ISOLayment QT 3/13

