



ENA NE-200 MASS LOADED VINYL

INTRODUCTION

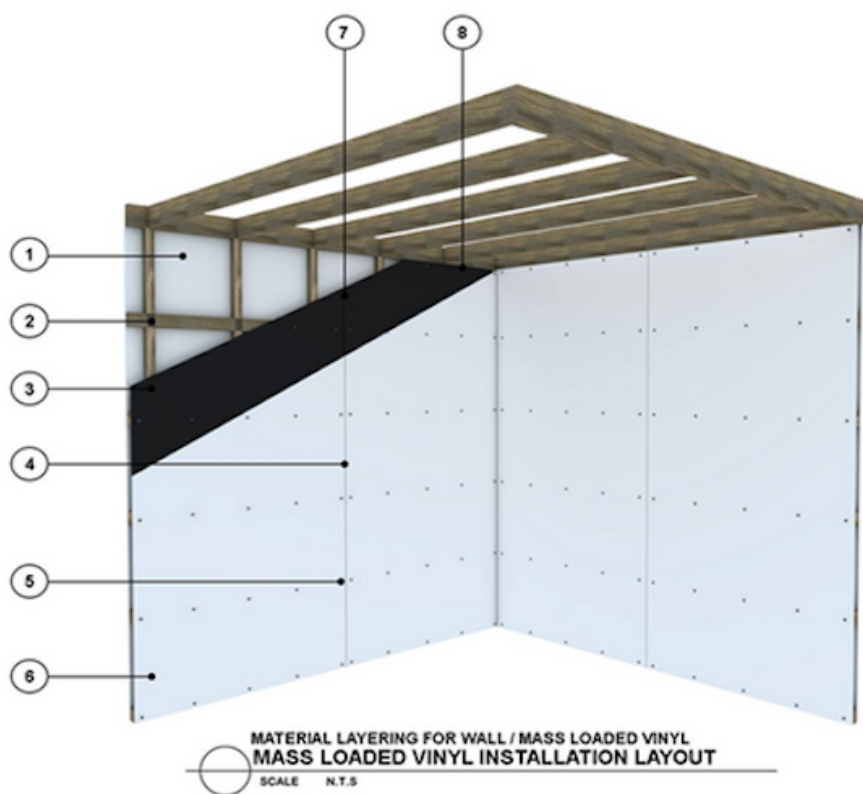
The ENA Soundproof Cotton, Fireproof Soundproof Board, and Acoustic blanket are high-quality products designed to meet the needs of consumers seeking safe and effective soundproofing and acoustic solutions. These products have been rigorously tested and certified to ensure safety, reliability, and superior performance.

FIRE RESISTANCE

The ENA NE-200 Soundproof mass loaded vinyl has passed the fire resistance test conducted by the Hong Kong Fire Services Department (BS-476-6 Wall and Ceiling Flame Retardant Requirements), as well as the SGS Laboratory Test (I=9.7, Class 1 Requirements). It has also been certified by the SGS Laboratory in Hong Kong for its safety and compliance with the highest fire safety standards.




CONSTRUCTION METHODS



LEGEND :	MASS LOADED VINYL INSTALLATION LAYOUT
	① EXISTING WALL
	② WOOD FRAME
	③ MASS LOADED VINYL
	④ 6mm GAP W/ GREEN GLUE NOISE PROOFING SEALANT
	⑤ DRY WALL SCREW
	⑥ GYPSUM BOARD FINISH
	⑦ GREEN GLUE NOISE PROOFING SEALANT
	⑧ DRY WALL SCREW

REFERENCE (HOTEL)

- Mandarin Oriental Hotel Hong Kong



MANDARIN ORIENTAL HONG KONG
MANDARIN ORIENTAL HONG KONG 5 CONNAUGHT ROAD CENTRAL HONG KONG
Tel : (852)2837 6822 Fax : (852)2240 0822 Email : mtam@mohg.com

Supplier: Flight Music Centre Limited
Address: 9/F, Bank Of East Asia Mongkok Building, 638-640 Nathan road, Mongkok, Kowloon, Hongkong
Vendor No: 100000003408
Contact: Ivan Yip
Email: INFO@FLIGHTMUSICHK.COM

P.O. NUMBER: M000361600
REQUEST NO: 0000288977
ORDER DATE: 2023-04-19
Delivery Date: 2023-04-21
TELEPHONE: +852 2878 7665
FAX:

QTY	UNIT	PRODUCT	ITEM DESCRIPTION	PRICE	TOTAL	LOCATION
2.00	UNIT	N007000019	Sound insulation blanket and sound absorbing panel in [REDACTED]	[REDACTED]		MO - HOUSEKEEPING
				TOTAL	[REDACTED]	00
				TAX	[REDACTED]	00
				FREIGHT CHARGES	[REDACTED]	00
				GRAND TOTAL	[REDACTED]	00

REMARKS:

Procurement Manager :
Payment Terms : 0 DAYS
Delivery Terms :
Special Instructions:
1. All deliveries to be made to Receiving Department per above specified delivery date
2. Deliveries accepted subject to count, weight, and approval
3. Valid for 6 months

This is a computer generated purchase order, no signature is required
Authorized Signature



Authorized Distributor
Flight Music Centre Ltd.
+852 28787665

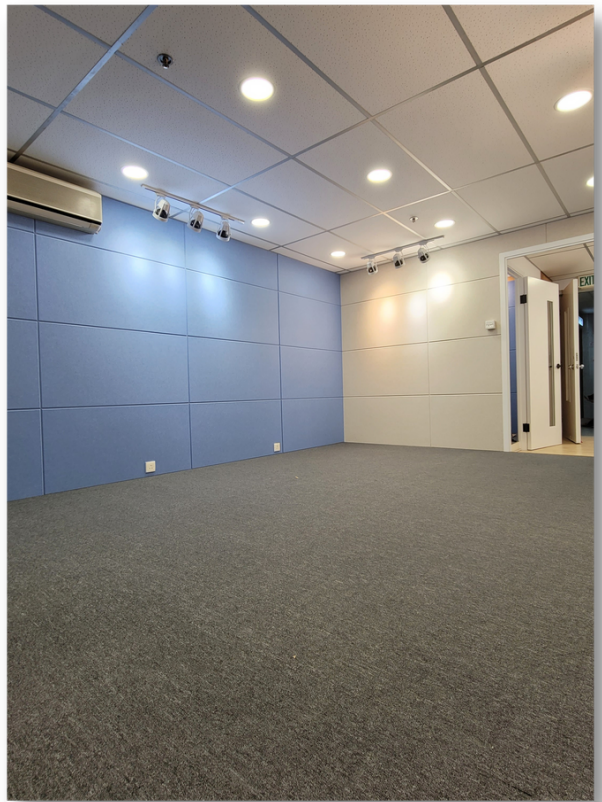
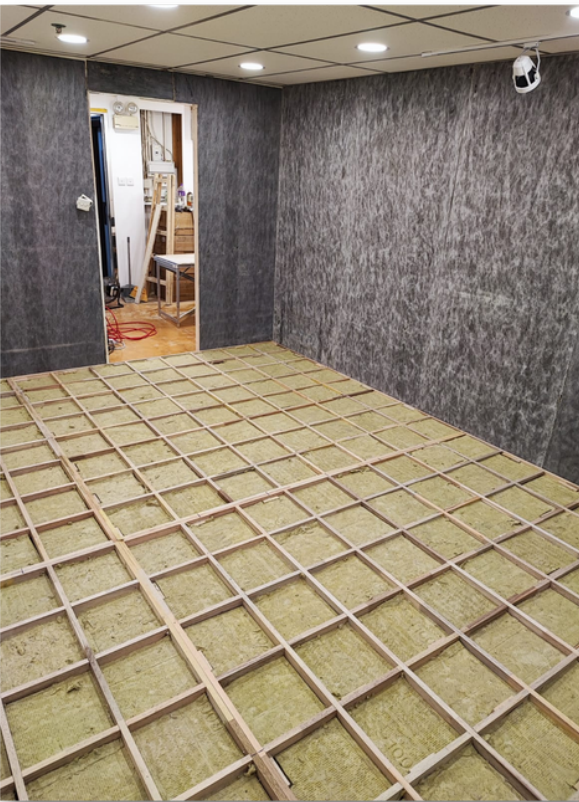
REFERENCE (SCHOOL)

- Hong Kong Polytechnic University



REFERENCE (SOCIAL WELFARE ORGANIZATION)

- Hong Kong Christian Service Jockey Club



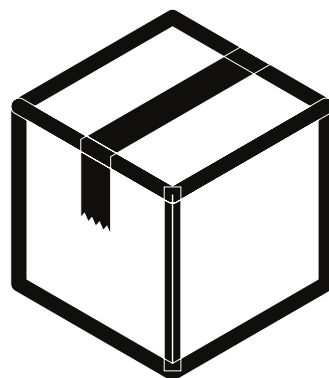


PRODUCT SPECIFICATIONS

- Mass loaded vinyl
- 2mm Thickness
- 1 x 10m Standard size
- 24 kg weight



- STC-30
- Density 2400 kg/m³
- Fire Resistance Index I=9.7
- Packing size: 15 x 15 x 100 cm
- 1 x 10m per roll



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CAUTION

- This product is intended for indoor use only. Do not expose it to outdoor conditions, as this may cause damage or affect its performance.
- Keep the product out of reach of children and pets, as it may pose a choking hazard or other safety risks.
- Do not modify or alter the product in any way, as this may affect its performance and could pose safety risks.
- The product should only be used for its intended purpose as described in the manufacturer's instructions. Any other use may result in damage or injury.
- The manufacturer cannot be held responsible for any damage, injury, or loss resulting from improper installation, use, or maintenance of the product.
- The manufacturer is not liable for any consequential, incidental, or special damages arising from the use or inability to use the product.
- The product may contain small parts or components that could pose a choking hazard. Use caution when handling and installing the product to avoid accidental ingestion.
- If the product becomes damaged, stop using it immediately and contact the manufacturer for assistance.
- The manufacturer reserves the right to modify or improve the product without notice.

Test Report

Report No.: AJFS2307006844FF

Date: AUG.08, 2023

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FLIGHT MUSIC CENTRE LIMITED

9/F, BANK OF EAST ASIA MONGKOK BUILDING, 638-640 NATHAN ROAD, MONGKOK, KOWLOON, HK

Sample Description: ENA SOUNDPROOF MASS-LOADED VINYL

Color: BLACK

Density: 2400 kg/m3

Thickness: 2mm

Style/Item No.: NE-200

Composition: POLYVINYL CHLORIDE

Supplier: FLIGHT MUSIC CENTRE LIMITED

Manufacturer: ENA FACTORY

The above sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

Test Requested:

BS 476 Part 6:1989+A1:2009 *Incorporating Corrigendum No.1:2014* "Fire tests on building materials and structures Part 6: Method of test for fire propagation for products".

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date : JUL.31, 2023

Test Performing Date : JUL.31, 2023 TO AUG.07, 2023

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch

Echo

Echo Li

Approved Signatory

scan to see the report



AJFS2307006844FF



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I. Test conducted

This test was performed in accordance with the procedure specified in BS 476 Part 6:1989 + A1:2009 *Incorporating Corrigendum No.1:2014* "Fire tests on building materials and structures—Part 6:Method of test for fire propagation for products".

II. Sample details

Sample description	ENA SOUNDPROOF MASS-LOADED VINYL (provided by client)
Thickness	About 1.9mm
Color	Black + Grey
Specimen size	225mm×225mm
Density	About 1724.8 kg/m ³
Exposed Face	Black surface
Details of the form tested specimens	Material

Conditioning:

Prior to testing, the sample was conditioned to constant mass at a temperature of 23 ± 2 °C, and a relative humidity of 50 ± 5 %, and maintained in this condition until required for testing.

III. Test results

Throughout the test on each specimen, carefully observe the material's behaviour within the apparatus and take special note of any of the following phenomena listed in clause 9.2 of the standard. None of the listed phenomena was observed and the test results on all three specimens tested were valid.

The index of the performance for the specimen was determined as follows:

$$S_1 = \sum_{t=0.5}^{t=3} \frac{\theta_s - \theta_c}{10t}, \quad S_2 = \sum_{t=4}^{t=10} \frac{\theta_s - \theta_c}{10t}, \quad S_3 = \sum_{t=12}^{t=20} \frac{\theta_s - \theta_c}{10t}, \quad S = S_1 + S_2 + S_3$$

Where:

S = index of performance for each of the specimens tested and S1, S2 and S3 are sub- indices

t = Time in minutes from the origin at which readings are taken

θ_s = Temperature rise in °C for the specimen at time, t

θ_c = Temperature rise in °C for the calibration sheet at time, t



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Fire Propagation index $I = i_1 + i_2 + i_3$

Where, i_1 , i_2 and i_3 are given by the expressions:

$$i_1 = \frac{1}{3}[(S_1)_A + (S_1)_B + (S_1)_C], \quad i_2 = \frac{1}{3}[(S_2)_A + (S_2)_B + (S_2)_C], \quad i_3 = \frac{1}{3}[(S_3)_A + (S_3)_B + (S_3)_C]$$

The following test results were obtained for each specimen tested:

Specimen No.	Sub - indices			Index of performance
	S ₁	S ₂	S ₃	S
A	0.73	8.32	0.67	9.72
B	0.59	8.90	0.77	10.26
C	0.60	8.15	0.41	9.17

Number of Specimens tested	Sub-index i_1	Sub-index i_2	Sub-index i_3	Fire Propagation index I
3	0.6	8.5	0.6	9.7

Note: If a suffix "R" is included in the above fire propagation index I, this indicates that the results should be treated with caution.

Statements:

The test results relate only to the behaviour of the test specimens of a product under the particular conditions of test. They are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.



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Anji Branch Fire Technology Service

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Photo Appendix:



SGS authenticate the photo on original report only

End of Report

Material Safety Data Sheet (MSDS)

Section 1: Product and Company Identification

Product Name: ENA NE-200soundproof mass loaded vinyl

Manufacturer: Ena Factory

Agent: Flight Music Centre Ltd.

Address: 9/F, Bank of East Asia Mong Kok building, 638-640 Nathan road, Mong Kok, Kowloon, HK

Telephone: +852 28787665

Emergency Telephone: +852 28787665

Section 2: Composition and Information on Ingredients

Chemical Name	Synonym(s)	CAS#	Conc. (%)
Iron Powder	Ferrous powder	7439-89-6	~15
Polyvinyl Chloride (PVC)	Vinyl polymer	9002-86-2	~70
Calcium Carbonate (CaCO ₃)	Limestone, chalk	1317-65-3	~15

The mass loaded vinyl consists of:

1. Iron Powder
2. Calcium Carbonate (CaCO₃)
3. PVC (Polyvinyl Chloride)

Section 3: Hazards Identification

This product is non-hazardous under normal use and handling.

Section 4: First Aid Measures

Not applicable, as the product is non-hazardous under normal use and handling.

Section 5: Firefighting Measures

In case of fire, use water, carbon dioxide, or dry chemical extinguishers. Wear appropriate protective gear, including self-contained breathing apparatus.

Section 6: Accidental Release Measures

Not applicable, as the product is non-hazardous under normal use and handling.

Section 7: Handling and Storage

Install the mass loaded vinyl in a suitable location according to the manufacturer's instructions. Ensure that the mass loaded vinyl is securely attached and properly supported. Regularly inspect the mass loaded vinyl for any signs of wear or damage, and replace or repair as needed.

Section 8: Exposure Controls and Personal Protection

No special exposure controls or personal protection equipment is required for normal use and handling of the product.

Section 9: Physical and Chemical Properties

- Appearance: PVC material
- Customizable dimensions
- Weight: 2400kg / m³
- Tolerance: 1~3 mm

Section 10: Stability and Reactivity

The product is stable under normal storage conditions. No hazardous reactions are expected.

Section 11: Toxicological Information

No toxic effects are expected from normal use and handling of the product.

Section 12: Ecological Information

The product is not expected to pose any significant environmental hazards.

Section 13: Disposal Considerations

Dispose of the product according to local, state, and federal regulations.

Section 14: Transport Information

No special precautions are needed for the transportation of the product.

Section 15: Regulatory Information

Users must ensure that the mass loaded vinyl meets the requirements of their local fire service department. Consult with the appropriate authorities to confirm compliance with fire safety requirements before installing the product.

Section 16: Other Information

This MSDS was prepared to the best of our knowledge. The information provided is accurate as of the date of this document. Users should handle the product according to the guidelines provided in this MSDS.