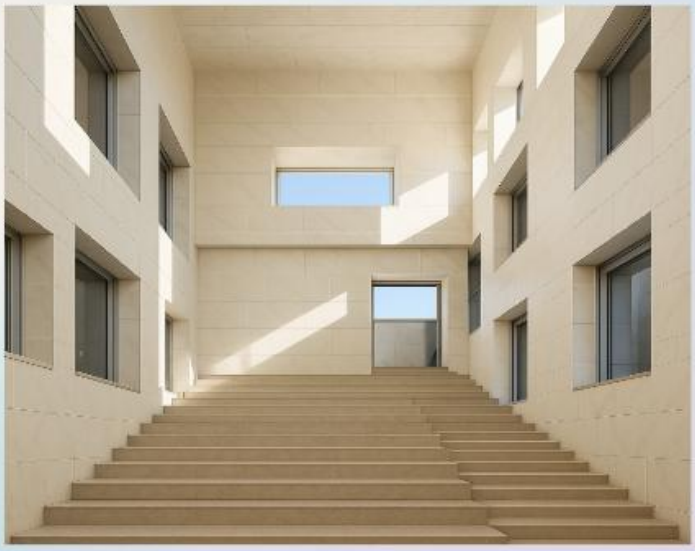
Safety Board

A Product and Service Provider Prioritizing Life and Environmental Values

SHINWOONG-USA Safety Board is engineered for superior fire resistance, eco-friendly non-toxicity, water and corrosion resistance, with exceptional functionality and customizable design to meet every construction need. They are fully non-combustible, making them ideal for advanced fire protection.

They also contain no harmful substances such as formaldehyde or asbestos, ensuring zero toxic gas emissions during fires.

Our Safety Boards are cost-effective, lightweight, and easy to install, reducing both labor and structural expenses. They offer excellent constructability, can be cut easily like gypsum board, and support both dry and wet construction methods.



www.shinwoong-usa.com | contact@shinwoong-usa.com | +1 864 416 1497

Physical Properties			
Material Composition	Magnesium Oxide	Thickness	Nominal 1/4" (6mm)
Weight	48.5Ib	Apparent Density	1.1 g/cm³
Available Sizes	48×96 in (1220×2440mm)	Variation in length due to warer absorption	0.09 %

Description	Specimen 1	Specimen 2	Specimen 3	Requirements
Time of continuous flaming (sec.)	0	0	0	<10
Temperature rise of furnace above initial furnace temperature (° C)	24	16	23	<50
Temperature rise of sample above initial furnace temperature (° C)	0	0	0	<50
Classification	Non-Combustible	Non-Combustible	Non-Combustible	-

TÜV SÜD PSB Singapore

CONCLUSION

A non-combustibility test in accordance with British Standard 476 Part 4:1970 was performed on the material described in this report, and the classification of the sample is Non-Combustible.

Indoor Air Quality		
	Unit	Results
Total Volatile Organic Compounds (TVOC)	mg/(m²h)	0.002
Toluene	mg/(m²h)	N/D
Formaldehyde	mg/(m²h)	N/D

Official method of Indoor air quality ES 02131.(National Institute of Environmental Resarch notification 2023-1) _KOREA

Test Report No. 7191230002-MEC20/B-YWA
dated 17 Jul 2020

SUBJECT:

Non-combustibility test on Brand: "Shinwoong Safe Board", Model: "SW-SFB480" Improved superior MgO Board for Wall Covering and Ceiling submitted by STX Service Singapore Pte Ltd on 11 Jun 2020.

TESTED FOR:

STX Service Singapore Pte Ltd
11 Kian Teck Crescent
Singapore 628877

DATE OF TEST:

26 Jun 2020

PURPOSE OF TEST:

To determine whether the material is non-combustible when it is exposed to the conditions of the test specified in British Standard 476 Part 4: 1970 'Fire Test on Building Materials and Structures - Non-combustibility Test for Materials'.

The test was conducted at TÜV SÜD PSB's fire test laboratory located at No. 10 Toas Avenue 10, Singapore 639134.

TEST REPORT

2024.03.11

Korea Conformity Laboratories

TEST REPORT