

Classification Report No. 7191288433-MEC22/03-CK
dated 24 Aug 2022

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CLASSIFICATION OF REACTION TO FIRE
IN ACCORDANCE WITH BS EN 13501-1: 2018

Sponsor:

Square Panel System Co., Ltd
64 Soi Bangnatrad 12, Bangnatai, Bangna
Bangkok 10260
Thailand

Prepared by:

TÜV SÜD PSB Pte Ltd

Product name:

**Brand: 'Squarepanel' Model: 'SP50-200' (50mm thick,
12.415 kg/m²) clean room and cold room panel material**

KE *[Signature]*

This classification report consists of five pages and may only be used or reproduced in its entirety.



LA-2007-0380-A LA-2007-0386-C
LA-2007-0381-F LA-2010-0464-D
LA-2007-0382-B LA-2018-0702-B
LA-2007-0383-G LA-2018-0703-G
LA-2007-0384-G LA-2020-0747-L
LA-2007-0385-E

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1. Introduction

This classification report defines the classification assigned to **Brand: 'Squarepanel' Model: 'SP50-200' (50mm thick, 12.415 kg/m²) clean room and cold room panel material** in accordance with the procedures given in BS EN 13501-1: 2018.

2. Details of classified product

2.1. End use application

This product **Brand: 'Squarepanel' Model: 'SP50-200' (50mm thick, 12.415 kg/m²) clean room and cold room panel material** is to be used in clean room, cold room.

2.2. Product description

The product is fully described in the test reports in support of this classification listed in clause 3.1

3. Test reports and results in support of classification

3.1 Test reports

Name of laboratory	Name of sponsor	Test report reference	Test method
TÜV SÜD PSB Pte Ltd	Square Panel System Co., Ltd	7191288433-MEC22/01-CK dated 24 Aug 2022	BS EN 13823: 2020
TÜV SÜD PSB Pte Ltd	Square Panel System Co., Ltd	7191288433-MEC22/02-CK dated 24 Aug 2022	BS EN ISO 11925-2: 2020

Test method	Parameters	Number of tests	Test results	
			Measured parameters (mean values)	Compliance parameters for B-s1, d0
BS EN 13823	FIGRA _{0.2MJ} (W/s)	3	15.3	≤ 120
	FIGRA _{0.4MJ} (W/s)		14.7	
	THR _{600s} (MJ)		1.5	≤ 7.5
	LFS to edge (Yes / No)		No	No
	SMOGR _A (m ² /s ²)		0.7	≤ 30
	TSP _{600s} (m ²)		31.5	≤ 50
	Flaming Droplets / Particles (sec)		No	No
BS EN ISO 11925-2: 2010	Vertical flame spread (surface) (mm)	6	0	F _s ≤ 150mm within 60 sec
	Vertical flame spread (edge) (mm)	6	20	F _s ≤ 150mm within 60 sec

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4. Classification and field of application

4.1. Reference of classification

This classification has been carried out in accordance with clause 11 of BS EN 13501-1: 2018.

4.2. Classification

The product, **Brand: 'Squarepanel' Model: 'SP50-200' (50mm thick, 12.415 kg/m²) clean room and cold room panel material**, in relation to its reaction to fire behaviour meets the requirements to be classified as **B**.

The additional classification in relation to smoke production is: **s1**

The additional classification in relation to flaming droplets / particles is: **d0**

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	1	,	d	0

Therefore, the classification **Brand: 'Squarepanel' Model: 'SP50-200' (50mm thick, 12.415 kg/m²) clean room and cold room panel material**, in accordance with BS EN 13501-1: 2018 is:

Reaction to fire classification: B-s1, d0

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4.3. End use application and product parameter

The classification in clause 4.2 only applies to the product described in clause 2 of this report and is only valid for the following parameters and applications:

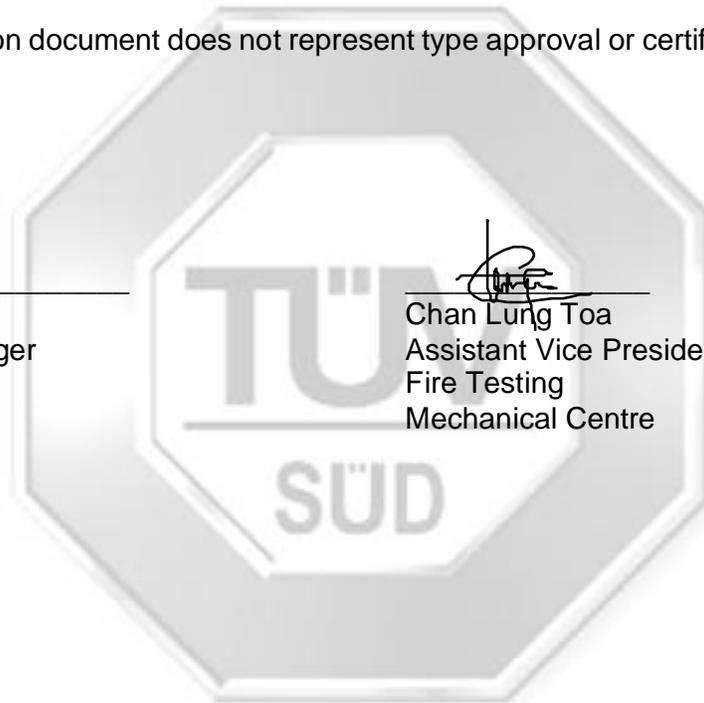
- Clean Room, cold room

5.0 Limitation

This classification document does not represent type approval or certification of the product.


Cheng Kang
Assistant Manager


Chan Lung Toa
Assistant Vice President
Fire Testing
Mechanical Centre



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Effective 26 January 2021

