



# Aluminium Foil Tape 932



FIRE RATING APPROVAL



## ALUMINIUM FOIL TAPE 932 (HUNTER)



### FIRE RATING APPROVAL:

<b>FLAME SPREAD</b> ( PSB Test Report: 7191024662-MEC12/2-YWA - BS476 PART 6: 1989 ) FSSD Standard: 12< (Index of Overall Performance, I) FSSD Standard: 6< (Sub-Index, ii)	1.4 (Index of Overall Performance, I) / Passed 0.7 (Sub-index, i1) / Passed
<b>FLAME SPREAD</b> ( PSB Test Report: S09MEC01448/1/OKH - BS476 PART 7 : 1997 )	CLASS 1 / Passed
<b>FIRE RATING</b>	CLASS 0
<b>PRODUCT LISTING SCHEME</b> (PSB Certificate No: CLS2140181099002)	CLASS 2 (Under Thermal Insulation Material)

### APPLICATIONS:

- Suitable for many other permanent sealing, holding, splicing and masking applications.
- Used in HVAC industry for sealing joints / seams against moisture and vapor penetration on foil jacketing insulation.

### PRODUCT FEATURES:

- Excellent peel adhesion.
- Wide servicing temperature range from -30°C to 120°C.
- Good initial tack & permanent bonding.
- Excellent temperature & aging resistance.
- Achieve Class "0" rating (Passed BS476 Part 6 & 7).

<b>FOIL BACKING THICKNESS</b>	0.030mm
<b>TOTAL THICKNESS</b>	0.060mm ± 0.005mm
<b>SERVICE TEMPERATURE</b>	-30°C TO 120°C
<b>APPLICATION TEMPERATURE</b>	10°C TO 40°C
<b>ADHESION TO STEEL 180°</b>	20N / 25mm
<b>TENSILE STRENGTH</b>	>37N / 25mm
<b>ELONGATION (%)</b>	Less than 3%

### REMARK

THESE VALUES ARE PRESENTED FOR COMPARISON PURPOSE AND DO NOT REPRESENT A GUARANTEE BY THE MANUFACTURER.  
 IT IS RECOMMENDED THAT THE PRODUCT BE EVALUATED IN ITS INTENDED APPLICATION BEFORE USE.



# Table of Contents

Technical Data Sheet .....	1
PSB Class 2 Product Listing Scheme & Class 0 Certification ...	2
PSB BS476: Part 6: 1989 Test Report .....	3-8
PSB BS476: Part 7: 1989: Class 1 Test Report .....	9-13
Material Safety Data Sheet .....	14-17
Project Reference .....	18



互益(私人)有限公司

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TEL: 67425677 ( 5 LINES ) FAX: 67422273 Email: custsvc@mopi.com.sg  
GST Reg. No.: M2-0031711-4 Co. Reg. No.: 197801919Z



## MATERIAL SAFETY DATA SHEET (MSDS)

### 1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING

#### **Trade Name**

Aluminum Foil Tape

#### **Manufacturer / Supplier**

Mopi Private Limited  
223 Ubi Ave 4 (Intrepid Warehouse Complex)  
Singapore 408813

Contact Number: 65-67425677

### 2) PRODUCT COMPOSITION

#### **Dangerous components**

None.

### 3) HAZARDS IDENTIFICATION

#### **Hazard Description**

Not applicable.

### 4) FIRST AID MEASURES

#### **After Inhalation**

No adverse health effects are expected from inhalation. Generally the product does not irritate the respiratory system.

#### **After Skin Contact**

Generally the product does not irritate the skin.

#### **After eye contact**

Generally the product does not irritate the eye.

#### **After Swallowing**

Seek medical attention immediately



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## 5) FIRE FIGHTING MEASURES

### Suitable Extinguishing Agents

CO<sub>2</sub>, power or water spray. Fight larger fires with water spray or alcohol resistant foam.

### Hazardous Decomposition

Toxic fumes are produced in fire.

### Unusual Fire Hazard

None

### Special Procedures

Do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus and wear fire retardant clothing. Large fires should only be dealt with by trained personnel.

## 6) ACCIDENTAL RELEASE MEASURES

### Person-related Safety Precautions

Not applicable.

### Measures For Environment Protection

Not applicable.

### Measures For Cleaning / Collecting

Not applicable.

## 7) HANDLING AND STORAGE

### Information for Safe Handling

Workplace safety and health regulations should be observed.

### Information About Fire

General rules of fire prevention should be observed.

### Requires To Be Met By Storerooms and Receptacles

No special requirements.

### Information About Storage In One Common Storage Facility

Store in sheltered and well-ventilated area below 30°C. Avoid direct sunlight.

## 8) EXPOSURE CONTROLS / PERSONAL PROTECTION

### General Protective and Hygienic Measures

Not required.

### Respiratory Protection

Not required.

### Protection Of Hands

Not Required.

### Eye Protection

Not Required.



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## 9) PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid in roll form.
Color	According to product specification.
Odor	Characteristic.
Melting Point / Melting Range	Undetermined.
Boiling Point / Boiling Range	Undetermined.
Flash Point	Not applicable.
Ignition Temperature	Not applicable.
Self-igniting	Product will not self-ignite.
Danger of Explosion	Product does not present an explosion hazard.

## 10) STABILITY AND REACTIVITY

**Stability**  
Stable

**Thermal Decomposition / Conditions To Be Avoided**  
Above 250°C.

**Dangerous Reactions**  
No dangerous reactions known.

**Dangerous Decomposition products**  
No dangerous decomposition products known

## 11) TOXICOLOGICAL INFORMATION

**Primary Irritant Effect On The Skin**  
No irritant effect. However, in rare cases, irritation such as rashes may occur on sensitive skin.

**Primary Irritant Effect On The Eye**  
No irritant effect. Eye contact is not expected to occur during normal application of product.

**Sensitization**  
No Sensitizing effects known.

**Effects from Inhalation**  
No adverse health effects are expected unless product is exposed to fire. Toxic fumes are produced in fire.

## 12) ECOLOGICAL INFORMATION

Unknown.



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### 13) DISPOSAL CONSIDERATIONS

**Recommendation**

Can be disposed of in accordance with local regulations.

### 14) TRANSPORT INFORMATION

No legal requirement. Not classified as hazardous for transport.

Land transport ADR/RID (cross-border)
ADR/RID class: Nil
Maritime transport IMDG:
IMDG class: Nil
Air transport ICAO-TI and IATA-DGR:
ICAO/IATA class: Nil

### 15) REGULATORY INFORMATION

#### PRECAUTIONARY LABEL INFORMATION

**Symbol(s)**

Not required.

**Risk Phrases**

Not required.

**Safety Phrases**

Not required.

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# Test Report No. 7191024662-MEC12/2-YWA

dated 06 Mar 2012

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PSB Singapore

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## SUBJECT:

Fire propagation test on "Hunter 932" Aluminium Foil Tape material submitted by Mopi Private Limited on 13 Jan 2012.

## TESTED FOR:

Mopi Private Limited  
223 Ubi Avenue 4  
Intrepid Warehouse Complex  
Singapore 408813

Attn: Mr Raymond Lim

## DATE OF TEST:

23 Feb 2012

## PURPOSE OF TEST:

To determine the Index of Performance of the material when it is exposed to the conditions of the test specified in British Standard 476 : Part 6 : 1989 + A1 : 2009 "Method of test for fire propagation for products".

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



Laboratory:  
TÜV SÜD PSB Pte. Ltd.  
No.1 Science Park Drive  
Singapore 118221



LA-2007-0380-A  
LA-2007-0381-F  
LA-2007-0382-B  
LA-2007-0383-G  
LA-2007-0384-G  
LA-2007-0385-E  
LA-2007-0386-C  
LA-2010-0464-D

The results reported herein have been performed in accordance with the laboratory's terms of accreditation under the Singapore Accreditation Council - Singapore Laboratory Accreditation Scheme. Tests/Calibrations marked "Not SAC-SINGLAS Accredited" in this Report are not included in the SAC-SINGLAS Accreditation Schedule for our laboratory.

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www.tuv-sud-psb.sg  
Co. Reg : 199002667R

Regional Head Office:  
TÜV SÜD Asia Pacific Pte. Ltd.  
3 Science Park Drive, #04-01/05  
The Franklin, Singapore 118223  
**TÜV®**

**DESCRIPTION OF SPECIMENS:**

Six pieces of specimen, said to be "Hunter 932" (0.060mm thick) Aluminium Foil Tape material comprising of (0.030mm thick) Aluminium Foil / (0.030mm thick) Acrylic Adhesive / Removable Paper Release Liner, each of nominal size of 225mm x 225mm were submitted. The overall thickness and area bulk density of the sample were found to be approximately 0.14mm and 0.17kg/m<sup>2</sup> respectively. Six pieces of specimen, each of nominal test size of 225mm x 225mm were prepared by bonding the specimen onto a 6mm thick calcium silicate board.

**TEST PROCEDURE:**

Three specimens, backed with calcium silicate board, were tested with the aluminium foil face exposed to the specified heating conditions, in an apparatus conforming to paragraph 5 and illustrated in Figures 1 to 3 of the Standard.

The calibration and test procedures were as defined in paragraphs 8 and 9, respectively, of the specification. The apparatus was calibrated prior to test and the actual calibration curve obtained is shown in Figure 1 of this report.

The mean temperature rise above ambient obtained from three specimens is also shown in Figure 1 (i.e. with the actual calibration curve). The mean temperature readings for the material and the calibration curve were obtained at the following intervals from the start of the test: at 1/2 minute intervals up to 3 minutes, at 1 minute intervals from 4 to 10 minutes, and at 2 minutes intervals from 12 to 20 minutes.



From these readings, the index of performance for the material was determined as follows:

$$s_1 = \frac{\sum_{t=0.5}^{t=3} \frac{\Theta_s - \Theta_c}{10t}}{10t}; \quad s_2 = \frac{\sum_{t=4}^{t=10} \frac{\Theta_s - \Theta_c}{10t}}{10t}$$

and  $s_3 = \frac{\sum_{t=12}^{t=20} \frac{\Theta_s - \Theta_c}{10t}}{10t}$

$$S = s_1 + s_2 + s_3$$

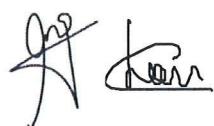
where  $S$  = Index of performance for each of the specimens tested and  $s_1$ ,  $s_2$  and  $s_3$  are sub-indices

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

$\Theta_s$  = Temperature rise in deg. C for the specimen at time,  $t$

$\Theta_c$  = Temperature rise in deg. C for the calibration sheet at time,  $t$

In computations only the positive value of  $\frac{\Theta_s - \Theta_c}{10t}$  was used.



### RESULTS OF TEST:

The following test results were obtained for each specimen tested:

Specimen	Sub-Indices			Index of Performance
	s <sub>1</sub>	s <sub>2</sub>	s <sub>3</sub>	S
A	0.5	0.7	0.1	1.3
B	0.8	0.5	0.0	1.3
C	0.7	0.8	0.0	1.5

### CONCLUSION:

The test results obtained, as an average of the 3 samples tested are as follows:

Index of overall performance, I = 1.4  
(Fire propagation index)

Sub-index, i<sub>1</sub> = 0.7

Sub-index, i<sub>2</sub> = 0.7

Sub-index, i<sub>3</sub> = 0.0

### REMARKS:

The test results relate only to the behaviour of the test specimens of the 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.

  
Ong Kian Huat  
Associate Engineer

  
Chan Lung Toa  
Product Manager  
(Fire Property)  
Mechanical Centre

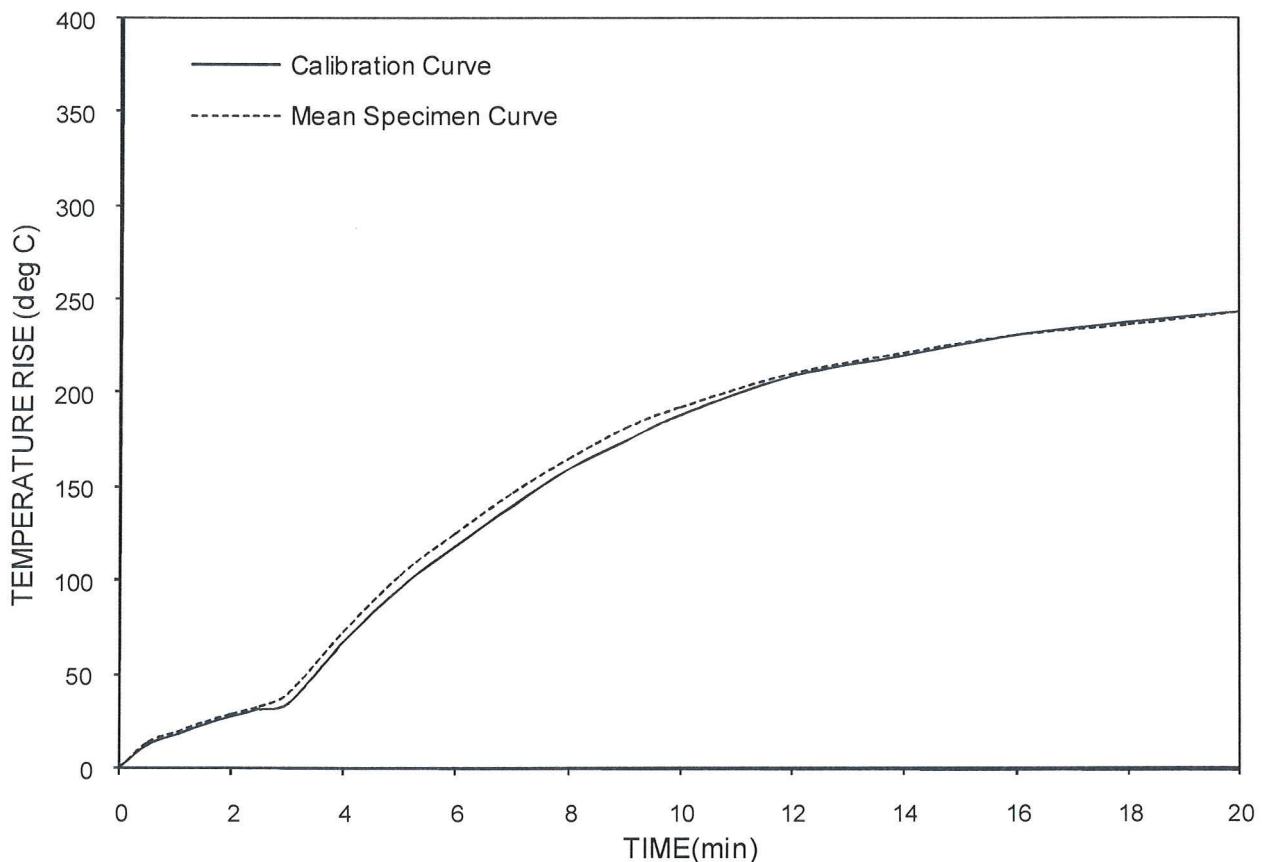


FIGURE 1 : COMPARISON OF MEAN SPECIMEN AND CALIBRATION CURVES



**Test Report No. 7191024662-MEC12/2-YWA**  
dated 06 Mar 2012

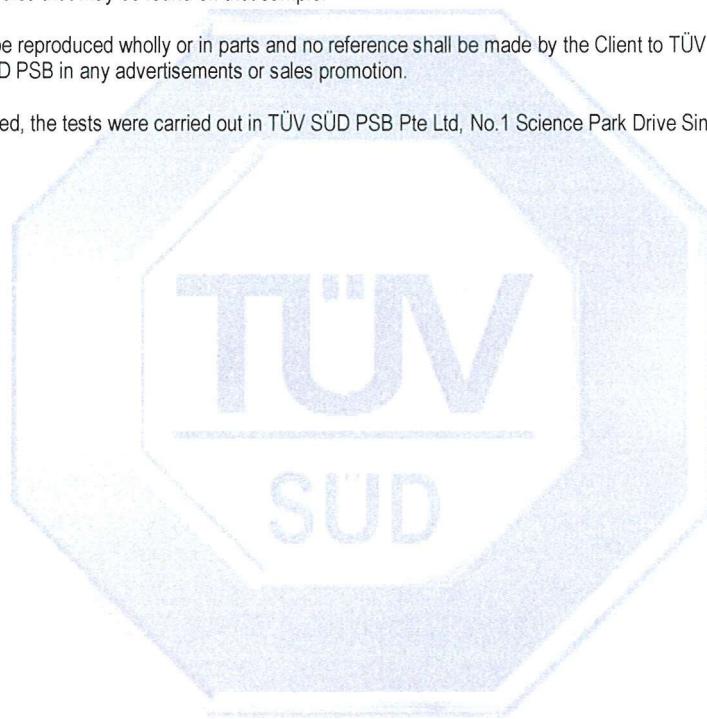


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July 2011



**Test Report No. S09MEC01448/1/OKH**  
dated 01 Apr 2009



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**SUBJECT:**

Large scale surface spread of flame test on "Hunter 932" Aluminium Foil Tape material submitted by Mopi Private Limited on 26 Feb 2009.

**TESTED FOR:**

Mopi Private Limited  
223 Ubi Avenue 4  
Intrepid Warehouse Complex  
Singapore 408813

Attn: Mr Raymond Lim

**DATE OF TEST:**

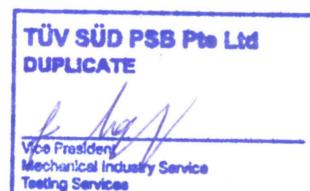
11 Mar 2009

**PURPOSE OF TEST:**

To determine the tendency of the surface of a material or a combination of materials to support the spread of flame across its surface and to classify the surface according to the test given in British Standard 476 : Part 7 : 1997.

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

Two handwritten signatures, one above the other, representing the test engineer and supervisor.



**Laboratory:**  
TÜV SÜD PSB Pte. Ltd.  
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Fax : +65-6776 8670  
E-mail: testing@tuv-sud-psb.sg  
www.tuv-sud-psb.sg  
Co. Reg : 199002667R



ACREDITED  
LABORATORY  
**SAC-SINGLAS**

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LA-2007-0380-A-1  
LA-2007-0381-F  
LA-2007-0382-B  
LA-2007-0383-G  
LA-2007-0384-G  
LA-2007-0385-E  
LA-2007-0386-C

The results reported herein have been performed in accordance with the laboratory's terms of accreditation under the Singapore Accreditation Council - Singapore Laboratory Accreditation Scheme. Tests/Calibrations marked "Not SAC-SINGLAS Accredited" in this Report are not included in the SAC-SINGLAS Accreditation Schedule for our laboratory.

**Regional Head Office:**  
TÜV SÜD Asia Pacific Pte. Ltd.  
3 Science Park Drive, #04-01/05  
The Franklin, Singapore 118223  
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DESCRIPTION OF SPECIMENS:

Nine pieces of specimen, said to be "Hunter 932" (0.060mm thick) Aluminium Foil Tape material comprising of (0.030mm thick) Aluminium Foil / (0.030mm thick) Acrylic Adhesive / Removable Paper Release Liner, each of nominal size 885mm x 270mm were submitted. The overall bulk area density and thickness were found to be approximately 0.18kg/m<sup>2</sup> and 0.15mm respectively. Nine pieces of specimen, each of nominal test size 885mm x 270mm were prepared by bonding the specimen onto 9mm thick calcium silicate board.

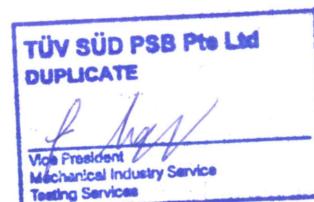
TEST PROCEDURE:

Prior to test, the specimens were prepared and conditioned in accordance with paragraphs 5.3 to 5.6 of the standard and secured to a specimen holder as described in paragraph 6.3.

Six specimens, backed with calcium silicate board, were tested with the Aluminium Foil face exposed to the specified thermal radiation from the apparatus described in paragraph 6.1 of the standard. The intensity of the radiated heat incident on the specimen varies with distance from the hotter end, so that when the specified calibration panel is mounted in the place to be occupied by the specimen, the irradiance of the radiometer is as given in Table 1. The test was terminated when the flame front reached the 825mm reference line, or after 10 minutes has elapsed, whichever is the shorter.

Table 1 : Irradiance Along Horizontal Reference Line on the Calibration Board

Distance along reference line from inside edge of specimen holder  mm	Irradiance kW/m <sup>2</sup>		
	specified	min.	max.
75	32.5	32.0	33.0
225	21.0	20.5	21.5
375	14.5	14.0	15.0
525	10.0	9.5	10.5
675	7.0	6.5	7.5
825	5.0	4.5	5.5



**RESULTS OF TEST:**

Specimen No.	1	2	3	4	5	6
Spread of flame at first 1½ minutes (mm)	0	0	0	0	0	0
Distance (mm)	Time of spread of flame to indicated distance (minutes • seconds)					
Start of flaming	Nil	Nil	Nil	Nil	Nil	Nil
75	-	-	-	-	-	-
165	-	-	-	-	-	-
190	-	-	-	-	-	-
215						
240						
265						
290						
375						
455						
500						
525						
600						
675						
710						
750						
785						
825						
865						
Time of maximum spread of flame (minutes • seconds)	-	-	-	-	-	-
Distance of maximum spread of flame (mm)	0	0	0	0	0	0
Comments	None					



### Classification of Surface Spread of Flame

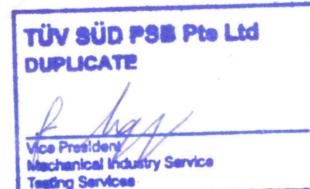
Classification	Spread of flame at 1.5 min.		Final spread of flame	
	Limit (mm)	Limit for one specimen in sample (mm)	Limit (mm)	Limit for one specimen in sample (mm)
Class 1	165	165 + 25	165	165 + 25
Class 2	215	215 + 25	455	455 + 45
Class 3	265	265 + 25	710	710 + 75
Class 4	Exceeding the limits for class 3			

### CONCLUSION:

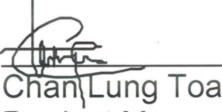
In accordance with the class definitions specified in the Standard, the test results show that the sample tested has a Class One Surface Spread of Flame.

### REMARKS:

The test results relate only to the behaviour of the test specimens of the 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.



  
Leong Gene-Jhou  
Associate Engineer

  
Chan Lung Toa  
Product Manager  
(Fire Safety & Security Products)  
Mechanical Centre

**Test Report No. S09MEC01448/1/OKH**  
dated 01 Apr 2009

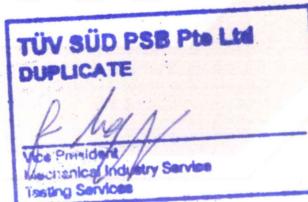


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March 2009





## Projects Reference

Projects	Country
1 <i>Singapore National Stadium (Sport Hub)</i>	Singapore
2 <i>Market Street Office Tower - 146 Market Street</i>	Singapore
3 <i>Bedok Bus Interchange</i>	Singapore
4 <i>HDB Centre Bus Interchange</i>	Singapore
5 <i>Jurong East Modification Project (JEMP)</i>	Singapore
6 <i>Malaysia Food Court - Universal Studio</i>	Singapore
7 <i>MBS IR Museum MEP Project</i>	Singapore
8 <i>Sentosa Casino - Packet 4</i>	Singapore
9 <i>Edward Life Science</i>	Singapore
10 <i>Safari Zoo</i>	Singapore
11 <i>CK Tang</i>	Singapore
12 <i>UTAC (Semi-Conductor)</i>	Singapore
13 <i>Hometeam Academy</i>	Singapore
14 <i>Plaza - Beach Road</i>	Singapore
15 <i>Sentosa Hotel</i>	Singapore
16 <i>Sentosa Quayside Hotel</i>	Singapore
17 <i>Four Seasons Hotel</i>	Singapore
18 <i>Goodwood Park Hotel</i>	Singapore
19 <i>Royal Group Hotel - 35 Robinson Road</i>	Singapore
20 <i>Camden Medical Centre</i>	Singapore
21 <i>Mount Elizabeth Hospital</i>	Singapore
22 <i>National University Hospital</i>	Singapore
23 <i>Changi General Hospital</i>	Singapore
24 <i>Edrington Group Singapore</i>	Singapore
25 <i>AA Centre</i>	Singapore
26 <i>NUS Block 14 Level 2</i>	Singapore
27 <i>NUS S3 Level 6</i>	Singapore
28 <i>NUS S1 Level 2</i>	Singapore
29 <i>NTUC - Changi Business Park</i>	Singapore
30 <i>NTUC - WoodLand 888</i>	Singapore
31 <i>NTUC - Bukit Ho Swee</i>	Singapore
32 <i>NTUC - Geylang East</i>	Singapore
33 <i>NTUC - Clementi</i>	Singapore
34 <i>Singapore Polytechnic</i>	Singapore
35 <i>Princess Elizabeth Primary School</i>	Singapore
36 <i>ChongZheng Primary School</i>	Singapore
37 <i>Yumin Primary School</i>	Singapore
38 <i>Evergreen Primary School</i>	Singapore
39 <i>Compass Height Condominium</i>	Singapore
40 <i>Tanglin View Condominium</i>	Singapore
41 <i>Northoaks Condominium</i>	Singapore
42 <i>Edelwise Condominium</i>	Singapore
43 <i>Queens Condominium</i>	Singapore
44 <i>Water Bank Condominium</i>	Singapore
45 <i>Sky Suites Condominium</i>	Singapore
46 <i>Paterson Condominium</i>	Singapore



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## Projects Reference

Projects	Country
47 111 Emerald Hill Condominium	Singapore
48 RV Residence	Singapore
49 76 Shenton Condominium	Singapore
50 D'Leedon Condominium	Singapore
51 Paterson 2 Condominium	Singapore
52 Rivera 38 Condominium	Singapore
53 Riversails Condominium	Singapore
54 Luxus Hill Condominium	Singapore
55 The Terrasse Condominium	Singapore
56 Uniqlo Outlets	Singapore
57 LVMH Ngee Ann City	Singapore
58 Montblanc @ Marina Bay Sands	Singapore
59 Bvlgari @ Marina Bay Sands	Singapore

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