

BRAND : "COMBAT"

PRODUCT : - FIRE PILLAR HYDRANT

DESCRIPTION : FIRE PROTECTION INSTALLATION

**COMBAT®****PILLAR
HYDRANT**

COMBAT® Pillar Hydrants are made in cast iron. The internal valves and fittings are normally in gunmetal. The nominal diameter available is 100mm (4") and 150mm (6"). Hydrants can be flanged, valved, screwed or instantaneous. Hydrant can also custom made accordingly to your specific requirements.

**Model: PH 100****2 WAY NON CONTROLLABLE PILLAR HYDRANT**

Test Pressure	25kgf/cm ² (360 PSI) @ 5min
Max. Working Pressure	16kgf/cm ² (230 PSI)
Body Material	Cast Iron
Design	In Compliance With BS750: 1984
Flange Size	100mm PN16 (BS EN 1092-2:1997) Optional: 4" ANSI #150RF
Outlet	2 1/2" LVT Thread
Optional	Hydrant Adaptor 2 1/2" Thread to 2 1/2" Female Instantaneous

PSB Test Report No. 719165696-MEC-1-TSM

**Model: PH 100C****2 WAY CONTROLLABLE PILLAR HYDRANT**

Test Pressure	25kgf/cm ² (360 PSI) @ 5min
Max. Working Pressure	16kgf/cm ² (230 PSI)
Body Material	Cast Iron
Design	In Compliance With BS750: 1984
Flange Size	100mm PN16 (BS EN 1092-2:1997) Optional: 4" ANSI #150RF
Outlet	Female Instantaneous

PSB Test Report No. 719165696-MEC-2-TSM

**Model: PH 150****3 WAY PILLAR HYDRANT**

Test Pressure	25kgf/cm ² (360 PSI)
Max. Working Pressure	16kgf/cm ² (230 PSI)
Body Material	Cast Iron
Design	In Compliance With BS750: 1984
Flange Size	150mm PN16 (BS EN 1092-2:1997) Optional: 6" ANSI #150RF
Outlet	2 x 2 1/2" LVT Thread and Pumper Outlet size: 4"

The company reserves the right to change the specification without prior notice.

LINGJACK ENGINEERING WORKS PTE LTD

Contact 65 6759 4163 • Facsimile 65 6758 7513 • Website www.combat.com.sg • Email combat@lingjack.com



SETSCO SERVICES PTE LTD

18 Teban Gardens Crescent
Singapore 608925
Tel : (65) 6566 7777
Fax: (65) 6566 7718
Website: www.setsco.com
Business Reg. No. 196900269D

TEST REPORT

(This Report is issued subject to the terms & conditions set out below)

Your Ref: -

Our Ref: MM-48154/WC/2

Date: 22 July 2015

Page 1 of 13

Subject : Witnessing of Dimensional Measurement, Pressure & Flow Characteristics Test on Non-Controllable Two Way Pillar Hydrant submitted by Lingjack Engineering Works Pte Ltd on 21 July 2015.

Tested for : **LINGJACK ENGINEERING WORKS PTE LTD**
No.1 Woodlands Terrace #03-01
Lingjack industrial building
Singapore 738471
Attn: Mr. Lucas

Date & Place of Test : 21 July 2015 at Lingjack Engineering Works Pte Ltd

Method of Test : Based on BS EN 14384: 2005
1) Dimensions (Client's Requirement & BS EN 1092-2 : 1997)
2) Flow Characteristics
3) Leaktightness
4) Mechanical Strength

Description of Sample : One (01) unit of Non-Controllable Two Way Pillar Hydrant was tested as follows:

S/No.	Sample Reference	Brand	Model No.	Size	Emboss Marking	Qty
1	Non-Controllable Two Way Pillar Hydrant	COMBAT	PH-100	DN 100	COMBAT BS-750 2014 DIA 100	01

Results :
1) Dimensions
Refer to Table 1

2) Flow Characteristics Test
Refer to Table 2

3) Leaktightness Test
Refer to Table 3

4) Mechanical Strength Test
Refer to Table 4

WANG CHAO
Testing Officer

MOHAMMAD AZAM
Executive Engineer (Mechanical Testing)
Mechanical Technology Division

Terms & conditions:

- (1) The Report is prepared for the sole use of the Client and is prepared based upon the item submitted, the services required by the Client and the conditions under which the Services are performed by SETSCO. The Report is not intended to be representative of similar or equivalent Services on similar or equivalent items. The Report does not constitute an endorsement by SETSCO of the item.
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- (3) The Report may not be used in any publicity material without the written consent of SETSCO.
- (4) The Report may not be reproduced in part or in full unless approval in writing has been given by SETSCO.
- (5) SETSCO shall under no circumstances be liable to the Client or its agents, servants or representatives, in contract, tort (including negligence or breach of statutory duty) or otherwise for any direct or indirect loss or damage suffered by the Client, its agents, servants or representative howsoever arising or whether connected with the Services provided by SETSCO herein.

Results:**Table 1a: General Dimension Measurement**

Test Method		Sample Ref: Non-Controllable Two Way Pillar Hydrant Size: DN100	Client's Requirements
A (mm)		443.0	Min. 420.0 Max. 460.0
B (mm)		605.0	Min. 600.0 Max. 620.0
C (mm)		100.0	100.0

Refer to Appendix A

Table 1b: Flange Dimension Measurement

Test Method		Sample Ref: Non-Controllable Two Way Pillar Hydrant Size: DN100	BS EN 1092-2: 1997 Requirements
D (mm)		215.0	Nom. 220
K (mm)		179.9	Nom. 180
L (mm)		18.26	Min. 19 Max. 20.5
Bolts	Number	8	Nom. 8 Nos
	Size	M16	Nom. M16
Flange Thickness (mm)	C	29.20	Min. 16 Max. 23

Refer to Appendix B

Table 2: Flow characteristics

Sample Reference	P ₁ , Inlet Pressure (bar)	P ₂ , Outlet Pressure (bar)	Q, Flow rate (l/m)
Non-Controllable Two Way Pillar Hydrant	2.3	0.4	818.0

Note:

- 1) Pressure Gauge (Brand: TESS, 0~20 bar) Certificate number: PS 144448.
- 2) Pressure Gauge (Brand: TESS, 0~40 bar) Certificate number: PS 145947.
- 3) Flow Gauge (Brand: VM, 140/14bar, Serial Number 1149023) Certificate number: 113725 (Non Singlas Report).

Table 3: Leaktightness Test (Shell Test)

Sample Reference	Test Duration (min)	Test Pressure (bar)	Results	BS EN 14384: 2005 Requirements
Non-Controllable Two Way Pillar Hydrant	10	25	No leakage	Shall be no sign of leakage past the valve

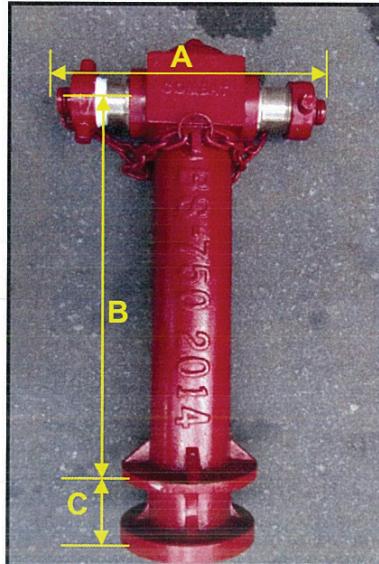



Results:**Table 4: Mechanical Strength Test**

Sample Reference	Results	BS EN 14384: 2005 Requirements
Non-Controllable Two Way Pillar Hydrant	No defects observed	Shall show no sign of defects

Note:

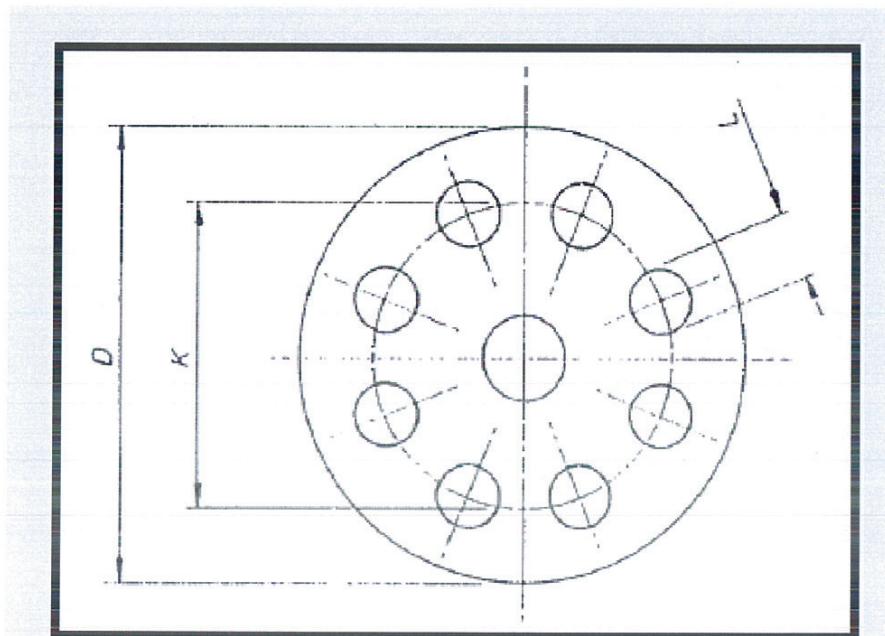
- 1) Pressure Gauge (Brand: TESS, 0~60 bar) Certificate number: PS 144449.

Appendix A:

Photograph 1 shows Pillar Hydrant tested



Photograph 2 shows Pillar Hydrant under Flow Characteristic Test

Appendix B:



Appendix C:

**DIGITAL FLOW GAUGE
CALIBRATION CERTIFICATE**

Customer: Lingjack Engineering Works Pte Ltd

Serial Number: 113725

Reference: VM23072 PF

Paddlewheel Ref No: S/Steel

Digital Display Serial No: 1149023

Certificate of conformity: KEMA No.Ex-98.E.1873 X

Calibration Mode: Litres per Minute

Accuracy: ± 1% F.S.D.

Static Assembly:

Range: 140/14bar Serial Number: 113725

Test Specification: BS EN 837-1 1.6%

Tested against: G23113/1.M71 (Traceable to National Standards.)

We hereby certify that the above Digital Flow Gauge has been tested and conforms to the manufacturers specifications and that the Digital Readout has been calibrated with the correct detail.

Date: 27/02/2012

Signed: A. Lee
For Vernon Morris Utility Solutions Ltd



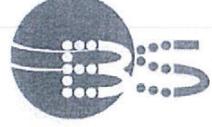
Vernon Morris Utility Solutions Ltd

Chester Road, Bretton, Chester CH4 0DH Tel: (01244) 660794 2 lines

SALES O SERVICE O SPARES

Fax: (01244) 661231

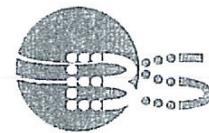
Appendix D-1:

	BS TECH PTE LTD <i>Your Global Allianz</i>											
	<i>Calibration Certificate</i>											
<p>CERTIFICATE NO. : PS 144448</p> <p>SALES ORDER NO. : BSO-14-005187</p> <p>CUSTOMER : LINGJACK GROUP OF COMPANIES NO.1 WOODLANDS TERRACE, SINGAPORE 738471</p> <p>INSTRUMENT : PRESSURE GAUGE</p> <p>MANUFACTURER : WIKA</p> <p>MODEL NO. : -</p> <p>SERIAL NO. : -</p> <p>TAG NO. : -</p> <p>RANGE : (0 ~ 20) bar</p> <p>DATE CALIBRATED : 26-Sep-2014</p> <p>RECOMMENDED DUE DATE : 26-Sep-2015</p> <p>AMBIENT TEMPERATURE : (21 ± 2) °C</p> <p>RELATIVE HUMIDITY : (55 ± 10) % rh</p>	<p>PAGE: 1 OF 3</p> <p>41 Sembawang Drive Singapore 755249 Tel: 6458 4411 Fax: 6458 4400 www.hesstandards.com</p>											
BS Tech's organization and practices have been duly accredited and are compliant to the requirements of ISO/IEC 17025; the laboratory accreditation standard. Our Quality Management System ensures its compatibility with the requirements of ISO 9001.												
The reference measurement standards used are traceable to National Metrology Centre,(NMC,SINGAPORE) and/or other National Standards.												
MEASUREMENT TRACEABILITY												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">REFERENCE STANDARDS</th> <th style="width: 30%;">TAG NO.</th> <th style="width: 30%;">SERIAL NO.</th> <th style="width: 10%;">CAL DATE</th> <th style="width: 10%;">DUE DATE</th> </tr> </thead> <tbody> <tr> <td>PNEUMATIC PRESSURE CALIBRATOR</td> <td>BS 1481</td> <td>2750129</td> <td>3-Jun-2014</td> <td>3-Jun-2015</td> </tr> </tbody> </table>		REFERENCE STANDARDS	TAG NO.	SERIAL NO.	CAL DATE	DUE DATE	PNEUMATIC PRESSURE CALIBRATOR	BS 1481	2750129	3-Jun-2014	3-Jun-2015	
REFERENCE STANDARDS	TAG NO.	SERIAL NO.	CAL DATE	DUE DATE								
PNEUMATIC PRESSURE CALIBRATOR	BS 1481	2750129	3-Jun-2014	3-Jun-2015								
CALIBRATED BY:  C MANIKANDAN	APPROVED BY:  R G SEKAR											
 SAC-SINGLAS Cert No: LA-2006-0358-C												




Appendix D-2:

TECH PTE LTD

*Calibration Certificate*

CERTIFICATE NO. : PS 144448

PAGE: 2 OF 3

METHOD OF CALIBRATION

The calibration certificate was produced in for the points specified in the relevant in-House Technical Procedure, BSM 02, as defined for the instrument.

The described instrument has been calibrated at BS Laboratory under the ambient conditions stated in the first page.

RESULTS OF CALIBRATION

- ♦ The expanded uncertainty of measurement associated with the calibration is estimated at a confidence level of approximately 95% with a coverage factor of $k = 2$.
- ♦ 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.

REMARKS

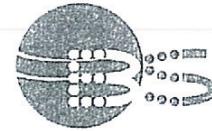
- ♦ The results of the calibration are given on the attached following pages.
- ♦ The results and their associated uncertainties are applicable at the time of calibration.
- ♦ No adjustment was done unless otherwise stated.
- ♦ The user should determine the suitability of the instrument for its intended use.
- ♦ The reports shall not be reproduced except in full, unless the management representative of BS TECH PTE LTD has given approval in writing and comply with the requirements specified in ISO/IEC 17025.

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Appendix D-3:

TECH PTE LTD

*Calibration Certificate*

CERTIFICATE NUMBER: PS 144448

PAGE: 3 OF 3

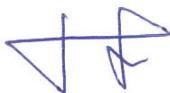
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		bar		bar	
0.00					
0.00	0.000	0.000	0.000	0.000	0.72
5.00	4.981	0.019	4.981	0.019	0.72
10.00	9.944	0.056	9.944	0.056	0.72
15.00	14.907	0.093	14.907	0.093	0.72
20.00	19.886	0.114	19.886	0.114	0.72

THE UNIT UNDER TEST IS FOUND TO BE WITHIN $\pm 1.0\%$ OF F.S.

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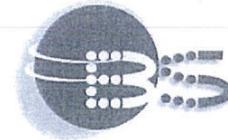


ACCREDITED LABORATORY
SAC-SINGLAS
(Cert No: LA200503884)




Appendix E-1:**BS TECH PTE LTD**

Your Global Alliance

**Calibration Certificate**

CERTIFICATE NO. : PS 145947

PAGE: 1 OF 3

SALES ORDER NO. : BSO-14-006609

CUSTOMER : LINGJACK GROUP OF COMPANIES
NO.1 WOODLANDS TERRACE,
SINGAPORE 738471

INSTRUMENT : PRESSURE GAUGE

MANUFACTURER : TESS

MODEL NO. : -

SERIAL NO. : -

TAG NO. : -

RANGE : (10 ~ 40) bar

DATE CALIBRATED : 8-Dec-2014

RECOMMENDED DUE DATE : 8-Dec-2015

AMBIENT TEMPERATURE : (21 ± 2) °C

RELATIVE HUMIDITY : (55 ± 10) % rh

BS Tech's organization and practices have been duly accredited and are compliant to the requirements of ISO/IEC 17025; the laboratory accreditation standard. Our Quality Management System ensures its compatibility with the requirements of ISO 9001.

The reference measurement standards used are traceable to National Metrology Centre,(NMC,SINGAPORE) and/or other National Standards.

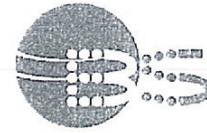
MEASUREMENT TRACEABILITY

REFERENCE STANDARDS	TAG NO.	SERIAL NO.	CAL DATE	DU DATE
PNEUMATIC PRESSURE CALIBRATOR	BS 1481	2750129	3-Jun-2014	3-Jun-2015

CALIBRATED BY: 
C MANIKANDANAPPROVED BY: 
R G SEKAR


ACCREDITED LABORATORY
SAC-SINGLAS
Cert No: LA-2006-0358-Q




Appendix E-2:**TECH PTE LTD***Calibration Certificate*

CERTIFICATE NO. : PS 145947

PAGE: 2 OF 3

METHOD OF CALIBRATION

The calibration certificate was produced in for the points specified in the relevant in-House Technical Procedure, BSM 02, as defined for the instrument.

The described instrument has been calibrated at BS Laboratory under the ambient conditions stated in the first page.

RESULTS OF CALIBRATION

- ♦ The expanded uncertainty of measurement associated with the calibration is estimated at a confidence level of approximately 95% with a coverage factor of $k = 2$.
- ♦ 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.

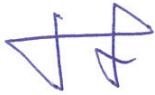
REMARKS

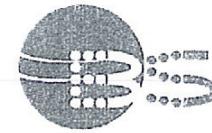
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(Ref No: LA20090338-0)




Appendix E-3:**TECH PTE LTD***Calibration Certificate*

CERTIFICATE NUMBER: PS 145947

PAGE: 3 OF 3

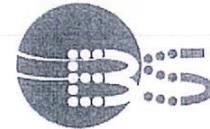
MEASURED VALUE	ASCENDING	ACTUAL VALUE		ERROR	EXPANDED UNCERTAINTY
		bar	DESCENDING		
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10.0	10.06	-0.06	10.06	-0.06	0.72
20.0	20.12	-0.12	20.12	-0.12	0.72
30.0	30.20	-0.20	30.20	-0.20	0.72
40.0	40.36	-0.36	40.36	-0.36	0.72

THE UNIT UNDER TEST IS FOUND TO BE WITHIN \pm 1.6 % OF F.S



Appendix F-1:**BS TECH PTE LTD**

Your Global Alliance

*Calibration Certificate*

CERTIFICATE NO. : PS 144449

PAGE: 1 OF 3

SALES ORDER NO. : BSO-14-005187

CUSTOMER : LINGJACK GROUP OF COMPANIES
NO.1 WOODLANDS TERRACE,
SINGAPORE 738471INSTRUMENT : PRESSURE GAUGE
MANUFACTURER : TESS
MODEL NO. : -
SERIAL NO. : -
TAG NO. : -
RANGE : (0 ~ 60) bar

DATE CALIBRATED : 26-Sep-2014

RECOMMENDED DUE DATE : 26-Sep-2015

AMBIENT TEMPERATURE : (21 ± 2) °C

RELATIVE HUMIDITY : (55 ± 10) % rh

BS Tech's organization and practices have been duly accredited and are compliant to the requirements of ISO/IEC 17025; the laboratory accreditation standard. Our Quality Management System ensures its compatibility with the requirements of ISO 9001.

The reference measurement standards used are traceable to National Metrology Centre,(NMC,SINGAPORE) and/or other National Standards.

MEASUREMENT TRACEABILITY

REFERENCE STANDARDS	TAG NO.	SERIAL NO.	CAL DATE	DUE DATE
PNEUMATIC PRESSURE CALIBRATOR	BS 1481	2750129	3-Jun-2014	3-Jun-2015

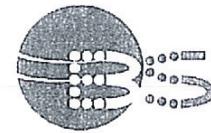
CALIBRATED BY: 
C MANIKANDANAPPROVED BY: 
R G SEKAR


ACCREDITED LABORATORY
SAC-SINGLAS
Cert No: LA/2006-0358-C




Appendix F-2:

TECH PTE LTD

*Calibration Certificate*

CERTIFICATE NO. : PS 144449

PAGE: 2 OF 3

METHOD OF CALIBRATION

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RESULTS OF CALIBRATION

- ♦ The expanded uncertainty of measurement associated with the calibration is estimated at a confidence level of approximately 95% with a coverage factor of $k = 2$.
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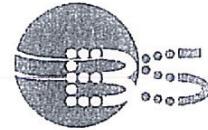
REMARKS

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Cert No: LA/2006-03584




Appendix F-3:**TECH PTE LTD***Calibration Certificate*

CERTIFICATE NUMBER: PS 144449

PAGE: 3 OF 3

MEASURED VALUE	ASCENDING	ACTUAL VALUE		ERROR	EXPANDED UNCERTAINTY
		bar	DESCENDING		
0.0	0.00	0.00	0.00	0.00	0.48
15.0	14.93	0.07	14.93	0.07	0.48
30.0	29.88	0.12	29.88	0.12	0.48
45.0	44.82	0.18	44.82	0.18	0.48
60.0	59.77	0.23	59.77	0.23	0.48

THE UNIT UNDER TEST IS FOUND TO BE WITHIN $\pm 1.0\%$ OF F.S





Lingjack Engineering Works Pte Ltd

No. 1 Woodlands Terrace Lingjack Industrial Building Singapore 738471

Tel: (65) 6759 4163 Fax: (65) 6758 7513(sales) / (65) 6756 1250(accounts/purchase)

<http://www.lingjack.com> email:combat@lingjack.com

GST Reg No.: M2-0100375-0 Co Reg No.: 199103053M

PROJECT REFERENCE LIST

CATEGORY: COMMERCIAL (COMBAT FIRE EXTINGUISHER & FIRE FIGHTING EQUIPMENT)

No	YEAR OF SUPPLY	NAME & LOCATION OF PROJECT
1	2016	JTC Space (Factory & Worker's Dormitory) @ Tuas Ave 1
2	2016	NTU @ 76 Nanyang Drive
3	2016	CWT Warehouse @ 47 Jalan Buroh
4	2016	Toll City
5	2016	Mandai Camp
6	2016	Chnagi Terminal 5 Runway
7	2016	Nordcom II @ Gambas Crescent
8	2016	Dawson C3
9	2016	Marina One Parcel A1-A4
10	2016	Google WEN 2 @ Jurong West Street 23
11	2016	Singpost @ 10 Eunos Road 8
12	2016	Micron @ 1 North Coast Drive
13	2016	M1 Data Centre (Phase 2) @ 9 International Business Park
14	2016	Mapletree @ Tai Seng Street
15	2016	Singapore Power House HQ @ 2 Kallang Sector
16	2015	Bedok Camp
17	2015	Sungei Tengah Lodge @ Old Choa Chu Kang Road
18	2015	Pasir Panjang Terminal P27-35 & P36-49
19	2015	VUE 8 @ Pasir Ris
20	2015	Heron Bay @ Upper Serangoon Road
21	2015	Lush Acres @ Fernvale Link / Sengkang West Way
22	2015	2M2P @12 Science Park Drive
23	2015	Skyline @ Telok Blangah Road
24	2015	United World College @ 1207 Dover Road
25	2015	River Isle @ Pinggol Central
26	2015	Watertown @ Punggol Central
27	2015	Changi Airport Terminal 4
28	2015	Sky Green Condominium
29	2015	Jewel @ Buangkok Drive
30	2015	Kingsford Project @ Hillview Peak Condominium
31	2015	Seletar Camp
32	2015	Punggol Flow Residence @ 128 Punggol Field Walk
33	2015	Tampines Sports Hub
34	2015	Chai Chee St Nursing Home
35	2015	PSA Warehouse
36	2015	Katong Hotel @ 86 East Coast Rd
37	2015	Seletar Park Residence @ Seletar Road
38	2015	Apex @ Henderson Road
39	2015	Q Bay Residences @ Tampines Street
40	2015	GSK Project Elpis @ 39 Quality Road
41	2015	K + N @ Pioneer Crescent
42	2015	Lion City @ 15 & 57 Tanjong Katong Road
43	2015	Alex Residences @ Alexandra View
44	2015	Yishun Community Hospital
45	2014	East Dormitory @ Pulau Punggol Timor
46	2014	One Canberra @ Yishun Avenue 7
47	2014	EU Habitat Condo @ Jalan Eunos
48	2014	Nautical Condo @ Sembawang Road
49	2014	Cableway @ Sentosa Island
50	2014	Oasia @ Peck Seah Street
51	2014	The Luxurie @ Sengkang Square
52	2014	DSTA Headquarters @ 1 Depot Road

53	2014	7 Mandai Link Project @ Mandai Connection
54	2014	Ng Teng Fong General Hospital
55	2014	Newest @ West Coast Drive
56	2014	Yale Nus @ Clementi Road
57	2014	Downtown Line 2 @ Cashew Station
58	2014	D'Nest @ Pasir Ris Grove
59	2014	Westcom @ Tuas South Ave 6
60	2014	DBS Building @ Shenton Way
61	2014	Thomson 3 Condo @ Bright Hill Drive
62	2014	The Skywoods @ Dairy Farm Road
63	2014	Twin Water Fall @ Punggol Way
64	2014	Touch Communities, Jalan Bukit Merah
65	2013	Nanyang Poly @ Ang Mo Kio Avenue 8
66	2013	Westgate (B3 To Podium Roof)
67	2013	Changi Prison
68	2013	Tampines Logispark
69	2013	Jalan Gali Batu @ 300 Woodlands Road
70	2013	Temasek Poly @ 21 Tampines Ave 1
71	2013	Microsoft Data Centre @ Woodlands Ave 9
72	2013	Jurong Shipyard @ Tuas
73	2013	Google @ Jurong West Street 23
74	2013	Tuas CCP5 @ 60 Tuas South Avenue 9
75	2013	The Vision Condo @ West Coast Road
76	2013	Subaru Car Showroom @ 25 Leng Kee Rd
77	2012	Cabana @ Sunrise Terrace
78	2012	The Tennery Condominium @ Woodlands Road
79	2012	H2O Condominium @ Sengkang
80	2012	The Wharf Residence @ Tong Wat Road
81	2012	Urban Resort @ 32 Cairnhill Road
82	2012	Riverside Residence @ 30 Robertson Quay
83	2012	Fusionopolis Phase 2A
84	2012	ITE Headquarters @ Ang Mo Kio Ave 5
85	2012	Atrium @ Orchard
86	2012	Kallang Hub
87	2011	Turf Club Kranji
88	2011	The Minton Rise Condominium @ Hougang Street 11
89	2011	NUH Medical Centre @ Kent Ridge Road
90	2011	West Point Biz Hub @ Tuas South Ave 2
91	2011	Stolthaven Singapore Phase 1A & 2A @ Jurong Island
92	2011	Rosewood Suites @ Wswoodlands Ave 2
93	2011	Kent Valve Staff Housing @ Clementi Road
94	2011	Hotel 81 @ Bencoolen
95	2011	Green Meadows @ Upper Thomson Road
96	2011	CHIJ School @ Telok Blangah Way
97	2011	Lanxess Butyl @ 1 Tembusu Road Jurong Island
98	2011	US Navy Region Centre @ Sembawang PSA (6 Deptford Rd)
99	2011	Royal Thai Embassy @ 370 Orchard Rd
100	2011	Harvest @ Woodlands Ind Park Ave 1
101	2011	The Shore Residence @ Amber Road
102	2011	Woodlands Crescent Primary School
103	2011	Nathan Suites @ Nathan Road
104	2011	Victoria Theatre @ Empress Place
105	2011	Lim Chee Guan Food Ind @ 230 Pandan Loop
106	2011	Park Royal Hotel & Office @ Upper Pickering Street
107	2011	Resort World Sentosa MC 05 & 06
108	2011	Sea Front @ Meyer Road
109	2010	The Estuary Condo @ Yishun Ave 1/2
110	2010	Waterfront Wave Condo Along Bedok Reservoir Road
111	2010	Waterfront Key Condo Along Bedok Reservoir Road
112	2010	The Trizon Condo @ Ridgewood Close
113	2010	Universal Studio @ Sentosa
114	2010	Scotts Square @ Scotts Road
115	2010	Punggol East Spectra @ Punggol Centre
116	2010	Orchard Central @ Somerset
117	2010	Integrated Resort Marina Bay Sands Museum
118	2010	Integrated Resort Marina Bay Sands North Podium
119	2010	Circle Line Stage 4 & 5 Harbour Station
120	2010	Eunosville HUDEC Estate @ Sims Ave

121	2010	Floridian Condo @ Bukit Timah Road
122	2010	GlaxoSmithKline Vaccination Plant @ Tuas South Ave 5
123	2010	Downtown Line Stage 1
124	2010	Helios @ Cairnhill Circle
125	2010	Mapletree Business Park Development @ Pasir Panjang Road
126	2010	NEX Serangoon Hub
127	2010	Ocean Financial Centre @ 10 Collier Quay
128	2010	Quayside Condo @ Ocean Way Sentosa
129	2010	Reflection Condominium @ Keppel Bay
130	2009	River Valley High School @ Boon Lay Avenue
131	2009	The Soleil @ Sinaran Drive
132	2009	Micron Semi-Conductor Asia @ 990 Bendemeer Road
133	2009	Keppel Marine Wet Berth Phase 2 & 3 Along Telok Blangah Road
134	2009	Ocean Building (Ocean Finance Centre -OFC) @ 10 Collyer Quay
135	2009	Gardens by the Bay @ Marina South
136	2009	ION Orchard Turn (Site Office)
137	2009	Abbott Nutrition @ Tuas South Ave 10
138	2009	Alcon Singapore Manufacture @ 19A Tuas South Ave14
139	2009	Ang Mo Kio Hub Retail Mall & Interchange
140	2009	CWT Warehouse Phase 3, 4 & 5 @ 24 Penjuru Road
141	2009	Novena Medical Centre @ Sinaran Drive
142	2009	Resort World Sentosa MC 02 & 04
143	2009	Singapore Safety Driving School @ Woodlands Park E
144	2008	Sky-11 Condominium @ Thomson Road
145	2008	Regency Condo @ Kim Tian Rd
146	2008	Paterson Hill Condominium @ 8 & 8A Paterson Hill
147	2008	One North @ Buona Vista Road
148	2008	Cashew Condo @ Cashew Road
149	2008	Metropolitan Condo @ Alexandra Road
150	2008	Changi Water Reclamation Plant C3D and many others...