

Lucky-PIP[®] Pre-insulated Pipe

A New Generation of Thermal Insulation System



Environmentally Friendly

Energy Saving

Cost and Time Saving

Prefabrication

Robust and Durable

Enhance Site Management

A Lucky-PIP Pre-insulated Pipe System is an Ozone friendly system with the option of CFC, HCF and HCFC free system. It is suitable for both high and low temperature applications with a broad range of service temperature of -50°C to 140°C.

Lucky-PIP comes with rigid metal jacket providing a robust mechanical protection to the thermal insulation. The rigid metal jacket also acts as a vapour barrier to avoid vapour molecule ingress to the thermal insulation resulting in a more efficient and durable thermal insulation system.

Since Lucky-PIP is produced by foaming / moulding method in the factory, it can easily insulate pipes and fittings of any size and shape to largely reduce waste by 25 percent. Every part and component of the pipework system can be insulated by Lucky-PIP both on-site and off-site. Furthermore, Lucky-PIP is produced in a well set up factory, it is perfect for Prefabrication projects which minimises labour cost, workmanship error and site management cost.

Using High-Technology machineries for production, Lucky-PIP allows customers to enjoy its high-quality finish with robust and durable features, thus greatly reduces future maintenance and energy cost in the long-run.

Having passed 120 mins integrity, Lucky-PIP (with metal jacket) can penetrate wall or floor opening directly without fire ring between the pipe and the wall, eliminating the potential thermal bridge. Due to the high compressive strength of Lucky-PIP, no high-density load bearing or hard wood block are required at the pipe supports, eliminating another potential thermal bridge and simplifying the installation process.



Recommended Minimum Insulation Thickness for Chilled Water Pipe BEC Standard (Using BS 5422 : 1990 method)

Nominal Size of Pipe (mm)	Outer Diameter of Pipe (mm)	Thermal Conductivity, $\lambda = 0.0236 \text{ W/m K}$			
		Indoor Condition (Still air)		Outdoor Condition (wind speed = 1 m/s)	
		28.8 °C, 80% R.H.		35 °C, 95% R.H.	
		Calculated Thickness ($h = 5.7$)	Recommended Thickness*	Calculated Thickness ($h = 9$)	Recommended Thickness*
15	21	14	25	39	40
20	27	15	25	41	50
25	34	16	25	43	50
32	43	17	25	46	50
40	49	17	25	48	50
50	61	17	25	50	65
65	77	18	25	53	65
80	90	19	25	56	65
100	115	19	25	58	65
125	141	20	25	60	65
150	168	20	25	62	65
200	219	20	40	65	70
250	273	21	50	67	70
300	324	21	50	69	70
>300 Please contact sales department					



* Chilled Water Temperature In/Out: 5 °C/12 °C

Advantages of using Lucky-PIP

- Environmentally Friendly – CFC/HCFC/HCF Free
- Robust and Durable – Minimize Maintenance Costs
- Eliminates potential Thermal Bridges (at Pipe Support and Wall Penetration)
- Less Workmanship at Site – Less Human Error, Improve Safety and Site Management
- Perfect for Prefabrication
- Can Insulate any Pipework Route and any Shape and any Fittings
- Production Schedule Regardless of Site Condition – Improves Time Management
- High Insulation Efficiency – Energy Saving
- Less Commercial Wastage
- Single Action for Complete Installation
- Ultimate Vapour Barrier and Weather Resistance



General Specification

1. General

Manufacturer: Link The Best Company Limited
Brand Name: Lucky-PIP®
Country of Origin: The Hong Kong Special Administrative Region

2. Protective Jacket

Jacket material shall be as specified and shall be sufficiently sized to allow for desired insulation thickness for optimum performance of the system.

Standard Jacket

- Galvanized Steel - 0.5 / 0.6mm thick
- Aluminium - 0.8 mm thick
- Stainless Steel - 0.5 / 0.6mm thick
- High Density Polyethylene (HDPE)

*Other jacket material upon request

3. Thermal Insulation – Rigid Polyurethane Foam

Density: 48kg/m³ to 60 kg/m³ (Base on customer requirement)
Thermal Conductivity: 0.0236 w/m°C at 20°C mean temperature
Service Temperature: -50°C to +140°C
Compressive strength: 275 Kpa (Insulation only)
Water permeability: 1.4 perm. In (Insulation only) (Equivalent to 0.002 g · m / s · MN)
Fire rating (complete system): BS476 Part 6 I <12 ; i <6
BS476 Part 7 Class 1
Fire Test for 120 minutes integrity
Closed Cell Content: ≥ 95%
Ozone Friendly: CFC / HCFC / HCF Free

4. Service Pipe

Pipe shall be as specified for desired service, e.g. Black Steel Pipe, Galvanized Iron Steel Pipe, Copper Pipe, PVC Pipe and etc...

5. Fittings

Prefabricated and preinsulated elbows, loops and tees shall be furnished and installed where shown on plans and shall consist of pipe, insulation and jacket conforming to the same specifications as specified for straight runs.

6. System Support and Anchor

All pipe supports shall be on the outside of the cladding, no high-density load bearing or hard wood block at the pipe support are required.

7. Installation

All pipes and accessories shall be installed in accordance with the manufacturer's recommendations. The services of a factory-trained field service instructor shall be required during all critical stages of installation and testing.

JOB REFERENCE

Year	Project	Year	Project
2000	Public Health Laboratory Centre at Nam Cheong Street - Cold Room	2013	MTR Project 753
2000	Public Health Laboratory Centreat Nam Cheong Street - HVAC	2013	Cityplaza Three and Four
2001	Cyberport Development at Telegraphy Bay, Contract C1	2013	Renovation Works for Canossa Hospital
2001	Cyberport Development at Telegraphy Bay, Cybercentre Contract C240	2013	The HK Polytechnic University - Phase 5
2001	MTRC Central Station	2013	Central Police Station Conservation and Revitalization
2002	Castle Peak Hospital Redevelopment Phase II, Stage 2 (Contract NO.: SS J335)	2014	Tai Po Pharmaceutical Manufacturing Factory
2002	Cyberport Hotel Contract C540	2014	Kai Tak DCS Phase III (Package A) 1020EM12A
2002	Police Headquarters, Phase III	2014	Kai Tak District Cooling System 1016EM12W
2003	Ebenezer School	2014	Relocation of the Department of Justice to Central Government Offices
2003	Science Park Phase 1c Building 6	2014	International Theme Park in Lantau Island Project BOH Admin, Building
2004	Fire Station with Ambulance Depot and Police Post at Penny's Bay, Lantau (Contract No. SS L305)	2014	Court of Final Appeal
2004	International Theme Park in Lantau Island Project Back of House	2014	MTR Project 1064
2004	International Theme Park in Lantau Island Project Rafts and Tarzan's Treehouse	2014	GLC Printing Workshop, Chai Wan
2004	International Theme Park in Lantau Island Project Storybook Theatre	2014	Kai Tak District Cooling System KL-2012-03
2004	Pathology Building at Queen Mary Hospital	2014	International Theme Park in Lantau Island Project Iron Man Experience (Package 2)
2004	Rock Hill Joint Used Building	2014	West Kowloon Law Court Building
2004	The University of Hong Kong	2014	KIL No. 11111 Hung Luen Road, Hung Hom
2004	Tuen Mun Polyclinic - Ophthalmic Centre	2014	Fire Services Training School cum Driving Training School
2005	HKJC Happy Valley Race Course	2014	HK Polytechnic University, Phase 3B
2005	Juveniles Centre in Tuen Mun	2015	Tsing Yi Sports Centre
2005	New Infectious Disease Centre Attached to the Princess Margaret Hospital	2015	Hong Kong Sanatorium & Hospital
2005	Science Park Phase 2 Area A	2015	Tin Shui Wai Hospital
2005	Science Park Phase 2 Area B	2015	Shatin Area 14B Sports Centre
2005	Mong Kok Ambulance Depot, Ambulance Command & Fire Safety Command Headquarters	2015	International Theme Park in Lantau Island Project H3 Hotel
2006	2008 Olympic Equestrian Venues	2015	International Theme Park in Lantau Island Project Iron Man Experience (Package 3)
2006	Bright Future Pharmaceutical Laboratories Ltd	2015	Louis XIII Hotel, Macau
2006	Chai Wan Youth Development Centre	2015	10-30 King's Wah Road, North Point
2006	Rock Hill Joint Used Building (Fitting-out)	2015	HKJC Central Complex
2006	San Hui Market	2015	Yau Ma Tei Specialist Clinic
2007	2008 Olympic - Redevelopment of Quarantine B Stables	2015	Tai Po Lei Garden
2007	Bamboo Groove, Kennedy Road, Wanchai	2015	Hong Kong-Zhuhai-Macao Bridge
2007	International Theme Park in Lantau Island Project It's A Small World	2015	CPCS - Phase II
2007	Science Park Phase 2 Area A2	2015	4/F Podium, HSBC Head Office, Macau
2007	Shing Mun Tunnel, Toll Booth - Ventilation System	2015	International Theme Park in Lantau Island Project GC24 Constuming Services Building
2007	Tseung Kwan O Tunnel, Toll Booth - Ventilation System	2015	International Theme Park in Lantau Island Project GC26 - CCP2 MVAC Installation
2008	ALS304 Improvement to Western Park Sports Centre	2015	Kai Tak District Cooling System 2487EM14W
2008	Bright Future Pharmaceutical Laboratories Ltd, Phase 3 Extension	2016	West Railway TW6 Project - Public Sport Centre
2008	Cityplaza Hotel	2016	Murray Building
2008	1881 Heritage	2016	CDP Embedded at Mass-fill
2008	KDB200 - KCRC Kowloon Southern Link, West Kowloon Station	2016	M+ Museum
2008	Lee Theatre Plaza	2016	HK Sanatorium & Hospital Phase 1
2008	Siu Sai Wan Complex	2016	Swire Training Centre at Pui O, Lantau Island
2008	St. Paul's Hospital	2016	Phase 1, 2, 2A & 2B Buildings, HK Poly U
2008	St. Stephen's Society, 50 A Kung Kok Shan Road, Shatin	2016	HJ, 7/F Cleanroom, HK Poly U
2008	The HK Polytechnic University	2016	Hotel Royal Dragon, Macau (澳門麗龍酒店)
2008	Westland Garden Shop	2016	Nam Cheong Station Property Development
2009	Customs Headquarters Building at North Point	2016	Kai Tak District Cooling System 2487EM14W (Package B)
2009	Indoor Recreation Centre, Community Hall Cum Library in Area 17, Tung Chung	2016	Blood Transfusion Service Headquarters
2009	KCRC - Middle Road Subway Extension	2016	Hong Kong Museum of Art
2009	Sheung Wan Police Station	2016	West Kowloon Cultural District - Main Contract for the Park
2009	The Prince of Wales Hospital Extension Block	2016	Global Switch Data Centre in TKO
2009	Hong Kong Jockey Club - A/C Infra at Happy Valley Racecourse	2016	Matilda International Hospital
2009	The HK Polytechnic University - Upper Podium between Core G & H	2016	Mei Foo Phase 2 & 3
2009	Hong Kong Baptist University - Creative / Visual Art's Building	2016	The Hong Kong Jockey Club - AJQ
2009	Mei Foo Government Complex	2016	Core C & D, HK Poly U
2009	Lo Wu Correctional Institute	2017	Phase 2A Building, Taikoo Place
2009	St. Paul's Hospital	2017	Shaw Sports Complex, HK Poly U
2009	Tin Shui Wai Library	2017	NTW Regional Office and WREC of WSD
2009	Ha Kwai Chung Polyclinic & Marine Health Centre	2017	Tuen Mun Government Complex
2010	Sports Centre, Area 28A, Fanling/Sheung Shui	2017	Kai Tak Secondary School at Site 1A-2
2010	MTR West Island Line, Re-Provisioning of David Trench Rehabilitation Centre	2017	Auxiliary Medical Services Headquarters
2010	Tamar Government Headquarters	2017	HK Science Park Expansion Stage 1 (SPX1)
2010	Tseung Kwan O Complex at Area 44, Tseung Kwan O	2017	Education University of HK
2010	Hong Kong Jockey Club Phase II R/F	2018	Lian Tang / Heung Yuen Wai Boundary Control Point
2010	Mandarin Oriental Hotel	2018	International Theme Park in Lantau Island Project Arendelle Advanced Works
2010	Science Park Building 20	2018	FEHD Office - Cum-vehicle Depot
2010	Hong Kong University of Science & Technology	2018	Stage 4 of Mei Foo Sun Chuen
2010	BP International House	2018	Kai Tak - KL1014/01
2010	Po Lin Monastery	2018	Global Switch - Bldg 3, 4 & 5
2010	Sun Yat Sen Memorial Parks and Swimming Pool Complex	2018	Sport Centre in Area 24D, Shatin
2010	International Theme Park in Lantau Island Project Grizzly Gulch	2018	Expansion of Haven of Hope Hospital
2010	International Theme Park in Lantau Island Project Toy Story Land	2018	International Theme Park in Lantau Island Project GC29 401A Castle
2010	Lee Garden	2018	Near L25 and L26 on 5/F, Hopewell Centre
2010	Civil Aviation Department Headquarters (CAD)	2018	Ice Rink at Discovery Bay
2011	Hong Kong Jockey Club - Shatin Racecourse	2018	International Theme Park in Lantau Island Project GC29 - Bibbidi Bobbidi Boutique and Storybook Shoppe
2011	International Theme Park in Lantau Island Project Mystic Point	2019	City University
2011	Hong Kong Jockey Club - Happy Valley Racecourse Phase III	2019	Contract: 5 & 6/WSD/17
2011	"Integrated Teaching Building	2019	East Kowloon Cultural Centre
2011	The Chinese University of Hong Kong"	2019	International Theme Park in Lantau Island Project GC30 Arendelle - Completion Package
2011	Centennial Campus, The University of Hong Kong	2019	HK Polytechnic University - Global Student Hub
2011	City Hall	2019	5/F (Above Car Park Space & Inside Cargo Lift Lobby), Hopewell Centre
2011	Academic & Admin, Bldg, City University of Hong Kong	2019	HKSTP Development of IE 2.0 Project A at TKO Industrial Estate
2011	North Lantau Hospital	2019	Tin Hau, Lau Li Street
2011	Nin Jiom Medicine Manufacturing Factory	2019	International Theme Park in Lantau Island Project 613A
2011	Bright Future Pharmaceutical Laboratories Ltd - Block E	2019	Carpark MP1, The Mira
2011	Kai Tak District Cooling System 1016EM10	2019	Treasury Building
2011	Student Hostel Phase 3, The HK Poly U	2019	Galaxy Macau Phase 3C Lot 3
2011	Lam Tin North Municipal Services Building	2019	Global Switch - Bldg 3, 4 & 5 (Site B45)
2012	Sincere Insurance Building, Hennessy Road	2019	International Theme Park in Lantau Island Project 611F Central Chiller Plant #1 Upgrade
2012	Kwun Tong Swimming Pool	2019	Government Data Centre Complex at King Lam Street (Contract No. SSG504)
2012	Tuen Mun Swimming Pool	2019	HKSTP Innocoell Residential Institution at Science Park Road, Tai Po
2012	Indoor Velodrome-cum-sports Centre, TKO Area 45	2019	Vita Tower
2012	Canossa Hospital	2019	Mei Foo Stage 7
2012	International Theme Park in Lantau Island Project 209E Main Street Retail Expansion	2019	International Theme Park in Lantau Island Project 604H
2012	Hang Seng College	2020	HKUST Shaw Auditorium
2012	Harrow International School	2020	The Fullerton Ocean Park Hotel
2012	Kai Tak District Cooling System 1017EM10	2020	The HK Palace Museum
2012	Tuen Mun Sludge Treatment Facilities	2020	Tai Wai Market
2012	Maxim's Cake Factory	2020	L2 Lyric Theatre
2012	Science Park Phase 3 (Aboveground)	2020	United Christian Hospital
2013	Whampoa Garden Underground Pipe	2020	Primary School at Tonkin Street, Cheung Sha Wan
2013	Lab. Building, Hong Kong University of Science & Technology	2020	Kwong Wah Hospital (Phase 1)
2013	Lok Fu Market	2020	Alice Ho Miu Ling Netherlands Hospital
2013	Science Park Phase 3 (Underground)	2020	SkyCity Commercial Development
2013	Kwai Chung Industrial Building	2020	Pak Sha Wan Correctional Institute
2013	Yan Chai Hospital (New Block)	2020	North District GO
2013	Sports Centre & Library in Area 74, Tseung Kwan O	2020	Hopewell Centre II
2013	Cityplaza Three	2021	Main Campus for the University of Hong Kong
2013	The Hong Kong Jockey Club - SCTC	2021	HKSIL - Swimming Pool
2013	International Theme Park in Lantau Island Project Central Chiller Plant	2021	Kwai Chung Hospital

(For updated job reference, please contact sales department.)

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