

what drives our company

Passion and commitment to be the best in developing quality products for Malaysia. LBH Brother Industries Sdn Bhd (LBHBI) is a fully committed manufacturer of Mild Steel Cement Lining Pipes and Fittings in Malaysia. Built on the unrivalled reputation of providing the best in Quality Products with an excellent workforce of committed and dedicated professionals and workers, we've streamlined our disciplines in propelling our products to the forefront of excellence with a corporate credo of providing - "Quality Assured, Service Guaranteed". It has deemed fruitful as our customers enjoyed the benefits of our company's vision and commitment, hitting an all-time high of 95% customer satisfaction. We won't just stop here but will continue to break borders to develop products of superior quality. Assurance granted.

With a humble beginning in 1992 as a family business under the leadership of Mr. Low Ban Hin and his brother, the company has come a long way. LBHBI grew impressively, moving on from their first operation premise to an "all new" production factory targeting to be one of the leading steel pipes manufacturer in Malaysia.

Recognizing that progress is imperative to success, LBH Brother Industries Sdn Bhd is constantly improving its operations and seeking out new opportunities for growth. LBHBI was certified with ISO 9001: 2000 by BM TRADA in 2002, and committed to fulfilling the needs and expectation of our customers through continual improvement utilizing our corporate "5 Excellence Pathway" (Excellent Management System, Excellent Products, Excellent Workforce, Excellent Infrastructure

and Excellent Marketing). Product excellence has been and will always be our utmost priority at all times, with a new production line in a two acre land with the latest state-of-the-art cutting edge technology, and an increment of 40% production capacity to meet growing demand will be realized. That's your assurance of success.





OUR QUALITY IS OF THE HIGHEST STRINGENT MEASURES ASSURED BY ISO 9001:2000

ASSURANCE OF TOP QUALITY PRODUCTS

assurance of top quality products

As a certified company with ISO 9001:2000 by BM TRADA in 2002, we've a responsibility and commitment to uphold this industry standard. We believe quality is key to everything that we do. From sourcing of materials, manufacturing processes, quality control to customer service, no effort is spared in ensuring products of the highest quality are rolled out of our plant.

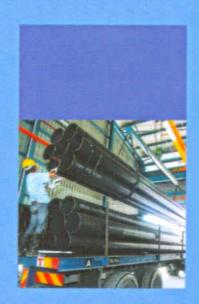
Our quality steel pipes are produced according to British Standards BS534:1990, BS3600:1976 and BS3601:1987 standards, and are certified by Ikram Quality & Certification Institute.

LBH Brother Industries Sdn Bhd places quality control at the heart of its operation. We believe in delivering the best products at the most competitive prices. That's why most of our raw materials are made in Malaysia and manufactured in accordance to requirement up to data specification.

Our plant manufacture pipes from 100mm to 600mm ND and fittings in sizes ranging from 100mm to 2,200mm ND in diameter, catering to a wide range of customers from JBA to township developers to hardware companies. Therefore, stringent control in the areas of inventory management, on-time delivery of products and other logistics are of utmost importance.

The most critical path is in the manufacturing process. At every step of the process, our QC engineers perform rigorous tests and thorough inspections. These include ultrasonic thickness

testing, concrete test cube for strength, bitumen 'pin-hole' detection and more. No stone is unturned in our manufacturing process in order to produce the products of stringent quality that can only carry the brandname of LBH Brother Industries Sdn Bhd. Assurance has its price.





WE BUILD ON OUR CORE PRINCIPLES...
"QUALITY ASSURED, SERVICE GUARANTEED."
THE VISION OF OUR FOUNDER MR.LOW BAN HIN.

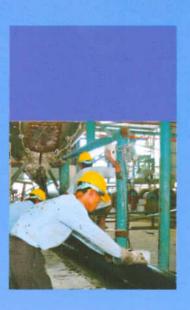
WE BUILD ON TOTAL CUSTOMER SATISFACTION

we build on customer total satisfaction

The real test of any product or service lies in the customer's satisfaction. This makes or breaks our reputation. That's why we make customer satisfaction our top priority.

LBH Brother Industries Sdn Bhd is second to none when it comes to customer service. Most importantly, we strive to continuously improve our effective management system to enhance our customer satisfaction as they vary in expectations. Customer satisfaction expectations are LBH Brother Industries Sdn Bhd's top priority. Our track record of quality products and prompt delivery on which customer's trust are built have been the hallmark of our success. How has this been successful? Simple, our core values in deliverables, management, marketing, research and development goes through stringent evaluation and periodic upgrades capitalising on opportunities for improvement. We ensure our customers with products of highest quality and the best technical support by our principal features and the quality control that is built into every stage of the production process.

LBHBI is recognized synonymously with quality products, competitive pricing and full range of services to meet our customers' requirement. The trust of our customers with LBHBI is the source of our pride.

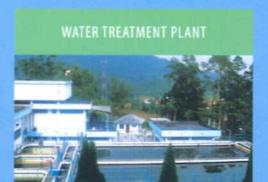


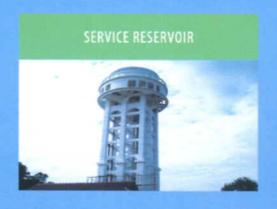


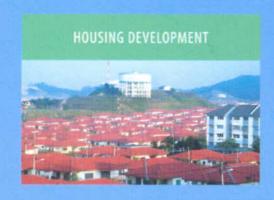
WE ENABLE INTEGRATED CUSTOMER MANAGEMENT TO PROVIDE THE HIGHEST QUALITY CONTROL THAT BUILDS STRONGER AND PROFITABLE CUSTOMER RELATIONSHIPS.

THIS PROPELS US TO WHERE WE ARE TODAY.

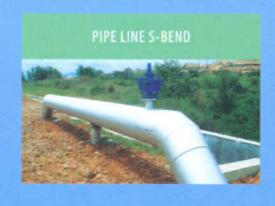
LBH BROTHER INDUSTRIES SDN BHD PRODUCTS THAT HAS PARTNERED MALAYSIA'S GROWTH.

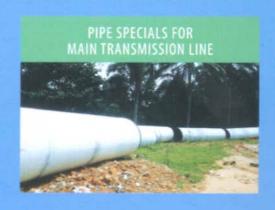








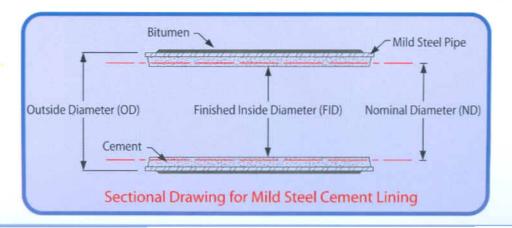




MSCL PIPE SPECIFICATION

JKR STANDARD TABLE 1

Nominal Diameter	Outside Diameter	Minimum Nominal Thickness	Minimum Thickness of Concrete	Finished Internal Diameter	Total Pipe Weight MSCL
(mm)	(mm)	(mm)	(mm)	(mm)	(kg/m)
100	121.9	4.1	10	93.7	20.17
150	177.3	4.1	10	149.1	30.05
200	232.2	4.1	10	204.0	41.20
250	286.0	4.1	10	257.8	51.11
300	345.4	5.8	10	313.8	75.91
350	399.3	5.8	13	361.7	97.60
400	453.1	5.8	13	415.5	111.13
450	507.0	5.8	13	469.4	124.68
500	560.3	5.8	13	522.7	138.09
600	667.0	6.5	13	628.0	176.10
650	692.0	7.4	13	651.2	197.72
700	754.0	7.4	19	701.2	243.75
750	804.0	7.4	19	751.2	260.28
800	854.0	7.4	19	801.2	276.80
900	954.0	7.4	19	901.2	309.85
1000	1054.0	8.0	19	1000.0	358.12
1100	1157.0	9.5	25	1088.0	478.78
1150	1219.0	9.5	25	1150.0	504.94
1200	1270.0	10.0	25	1200.0	541.71
1300	1372.0	11.0	25	1300.0	618.99
1400	1472.0	11.0	25	1400.0	664.88
1500	1576.0	13.0	25	1500.0	788.51
1600	1676.0	13.0	25	1600.0	839.33
1700	1776.0	13.0	25	1700.0	890.15
1800	1876.0	13.0	25	1800.0	940.97
1900	1976.0	13.0	25	1900.0	991.79
2000	2088.0	14.0	30	2000.0	1165.37
2100	2189.0	14.5	30	2100.0	1248.97
2200	2290.0	15.0	30	2200.0	1307.36



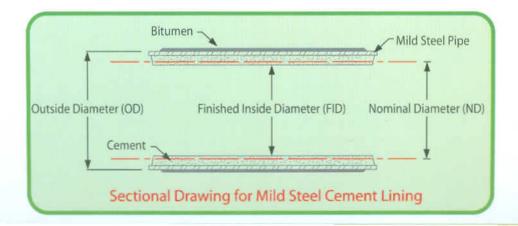
MSCL PIPE SPECIFICATION

BS EN 10224: 2002 / BS 534: 1990

TABLE 2



Nominal Diameter	Outside Diameter	Minimum Nominal Thickness	Minimum Thickness of Concrete	Thickness of Bitumen Sheating Material	Steel Pipe Weight	Hydraulic Test Pressure (Steel 430)
(mm)	(mm)	(mm)	(mm)	(mm)	(kg/m)	(bar)
100	114.3	3.6	6	3.0	9.83	70 140
150	168.3	3.6	6	3.0	14.60	70 <i>210</i>
200	219.1	4.0	10	4.5	21.20	70
250	273.0	4.0	10	4.5	26.50	64
300	323.9	4.0	10	4.5	31.60	54
350	355.6	4.5	13	6.0	39.00	56
400	406.4	4.5	13	6.0	44.60	49
450	457.0	5.0	13	6.0	55.70	48
500	508.0	5.0	13	6.0	62.00	43
550	559.0	6.3	13	6.0	85.90	50
600	610.0	6.3	13	6.0	93.80	45
650	660.0	6.3	19	6.0	102.00	42
700	711.0	6.3	19	6.0	109.00	39
750	762.0	6.3	19	6.0	117.00	36
800	813.0	7.1	19	6.0	141.00	38
850	864.0	7.1	19	6.0	150.00	36
900	914.0	7.1	19	6.0	159.00	34
1000	1016.0	7.1	19	6.0	177.00	31
1200	1219.0	8.0	19	6.0	239.00	29
1400	1422.0	8.8	25	6.0	307.00	27
1600	1626.0	10.0	25	6.0	399.00	27
1800	1829.0	11.0	25	6.0	493.00	26
2000	2032.0	12.5	25	6.0	623.00	27
2200	2235.0	14.2	25	6.0	778.00	28



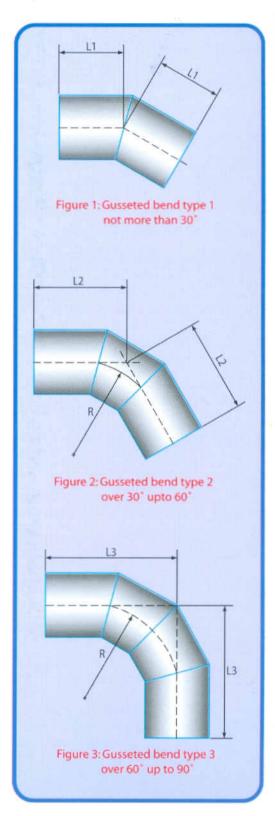
PIPES SPECIALS & FITTINGS



A) BENDS

TABLE 3

Pipe Pipe N.D. O.D.		Type 1 Type 2						Type 3	
		Not more then 30∞	Over 30∞ to 45∞		Over 45∞ to 60∞		Over 60∞ to 90∞		
		L1	R	L2	R	L2	R	L3	
mm	mm	mm	mm	mm	mm	mm	mm	mm	
100	114.3	175	150	200	150	250	150	300	
150	168.3	225	225	300	225	300	225	400	
200	219.1	300	300	350	300	400	300 .	500	
250	273	375	375	450	375	500	375	650	
300	323.9	375	450	450	450	500	450	700	
350	355.6	450	525	550	525	600	525	800	
400	406.4	450	600	600	600	600	600	850	
450	457	450	675	600	450	600	450	850	
500	508	450	750	600	500	600	500	850	
550	559	450	825	650	550	600	550	850	
600	610	550	900	750	600	750	600	1000	
650	660	550	975	750	650	750	650	1000	
700	711	550	1050	800	700	750	700	1100	
750	762	600	1125	850	750	850	750	1100	
800	813	600	1200	850	800	850	800	1200	
850	864	600	1275	850	850	850	850	1200	
900	914	600	1350	900	900	900	900	1300	
1000	1016	750	1500	1100	1000	1100	1000	1500	
1200	1219	850	1800	1200	1200	1200	1200	1700	
1400	1422	850	2100	1300	1400	1300	1400	1900	
1600	1626	900	2400	1400	1600	1400	1600	2100	
1800	1829	900	2700	1500	1800	1500	1800	2200	
2000	2032	1000	3000	1600	2000	1600	2000	2500	
2200	2235	1000	3300	1700	2200	1700	2200	2600	



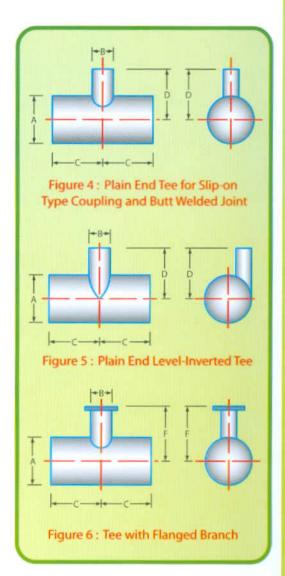
PIPES SPECIALS & FITTINGS



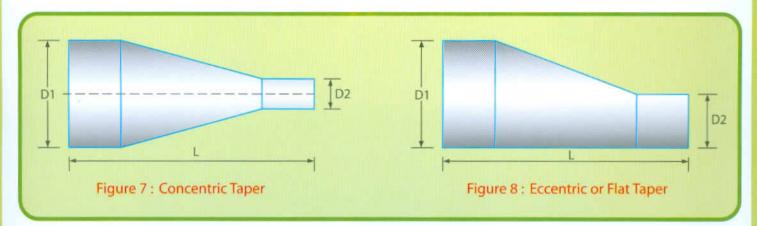
B) TEES

TABLE 4

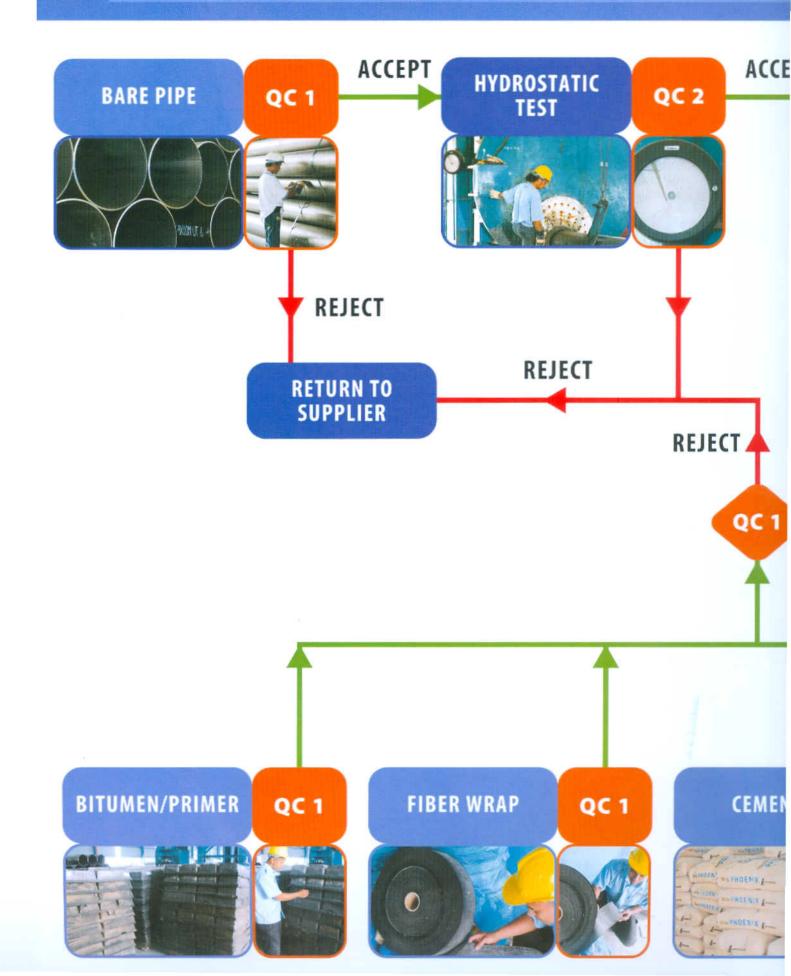
		Barrel	Branch			
Nominal Diameter	Outside Diameter		Outside Diameter	0.5 times OD of barrel 'A' plus		
	А	С	В	D	F	
mm	mm	mm	mm	mm	mm	
100	114.3	270	114.3	200	130	
150	168.3	290	168.3	200	140	
200	219.1	370	219.1	250	150	
250	273	410	273	250	160	
300	323.9	450	323.9	250	180	
350	355.6	530	355.6	300	200	
400	406.4	600	406.4	300	230	
450 to 700	457 to 711	1.5 times OD of branch 'B" but	457 to 711	300	300	
750 to 900	762 to 914	with a min. of 0.5 times OD of	762 to 914	380	300	
1000 to 2200	1016 to 2235	barrel 'A'	1016 to 2220	380	380	



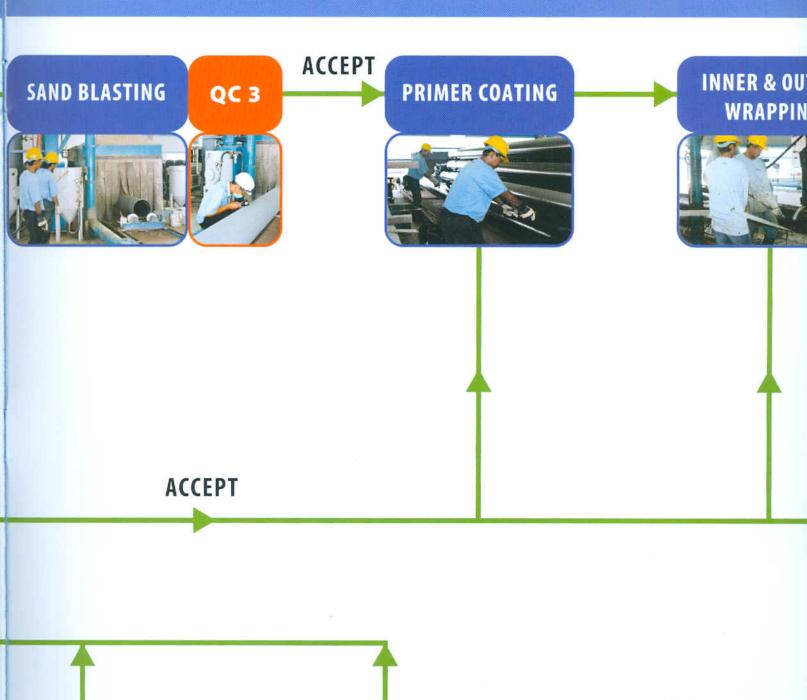
C) TAPER



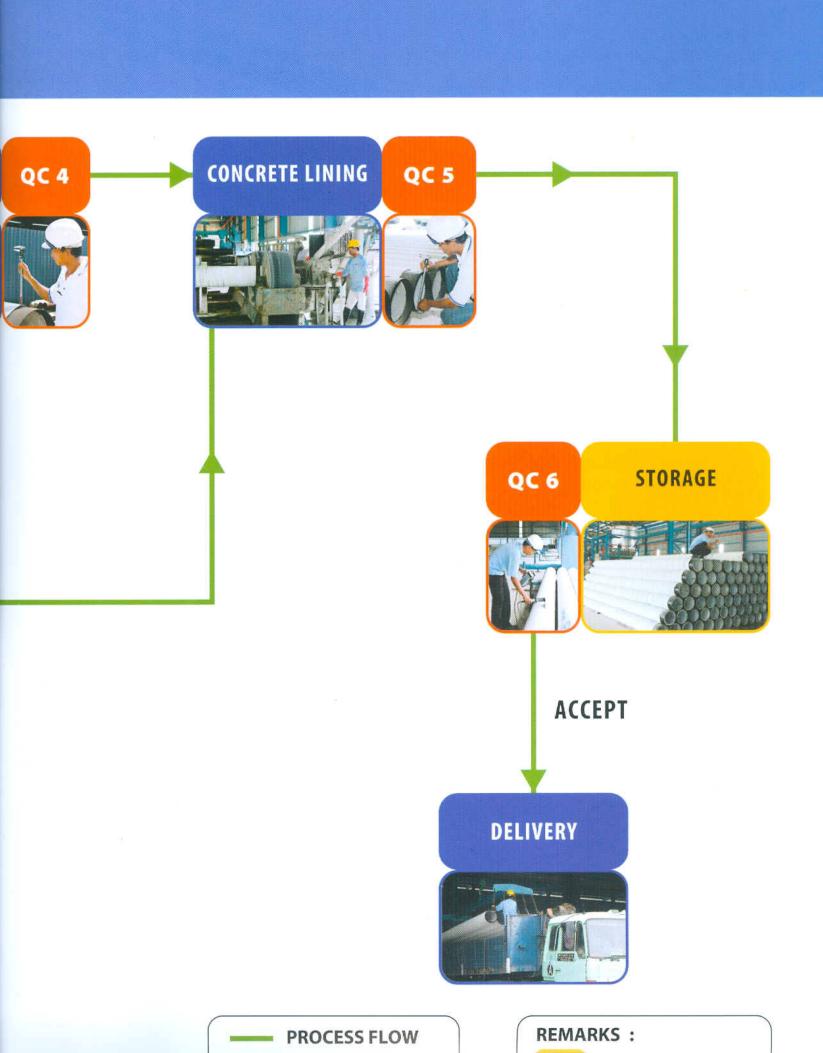
PRODUCTION PROCESS & QU



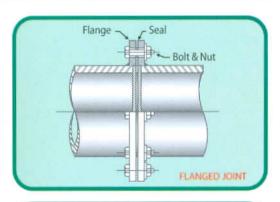
LITY CONTROL FLOW CHART





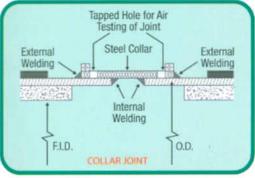






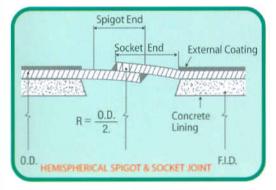
FLANGED JOINT

The dimension confirms with BS 4504. This type of joint is suitable for permanent or temporary installation.



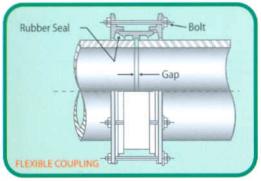
COLLAR JOINT

This type of joint is for permanent installation of plain ended pipe/fittings, with or without internal welding (depending on pipe size).



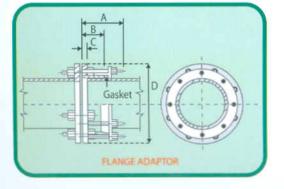
HEMISPHERICAL SPIGOT & SOCKET JOINT

This is the most popular and economical joint for long distance pipeline installation. It is also designed to take an angular deflection of up to 2° from axial to accommodate changes of pipe gradients.



FLEXIBLE COUPLING

This coupling is suitable for difficult terrain and when future dismantling is required. It is also capable of accommodating 3° to 6° deflection.



FLANGE ADAPTOR

Most suitable for joining a plain ended pipe to a flanged pipe/fitting special such as valve, pump etc for easy dismantling for repairs and maintenance.





Pipe



Bend



Taper



Tee



Flange Offtake Tee



Collar

