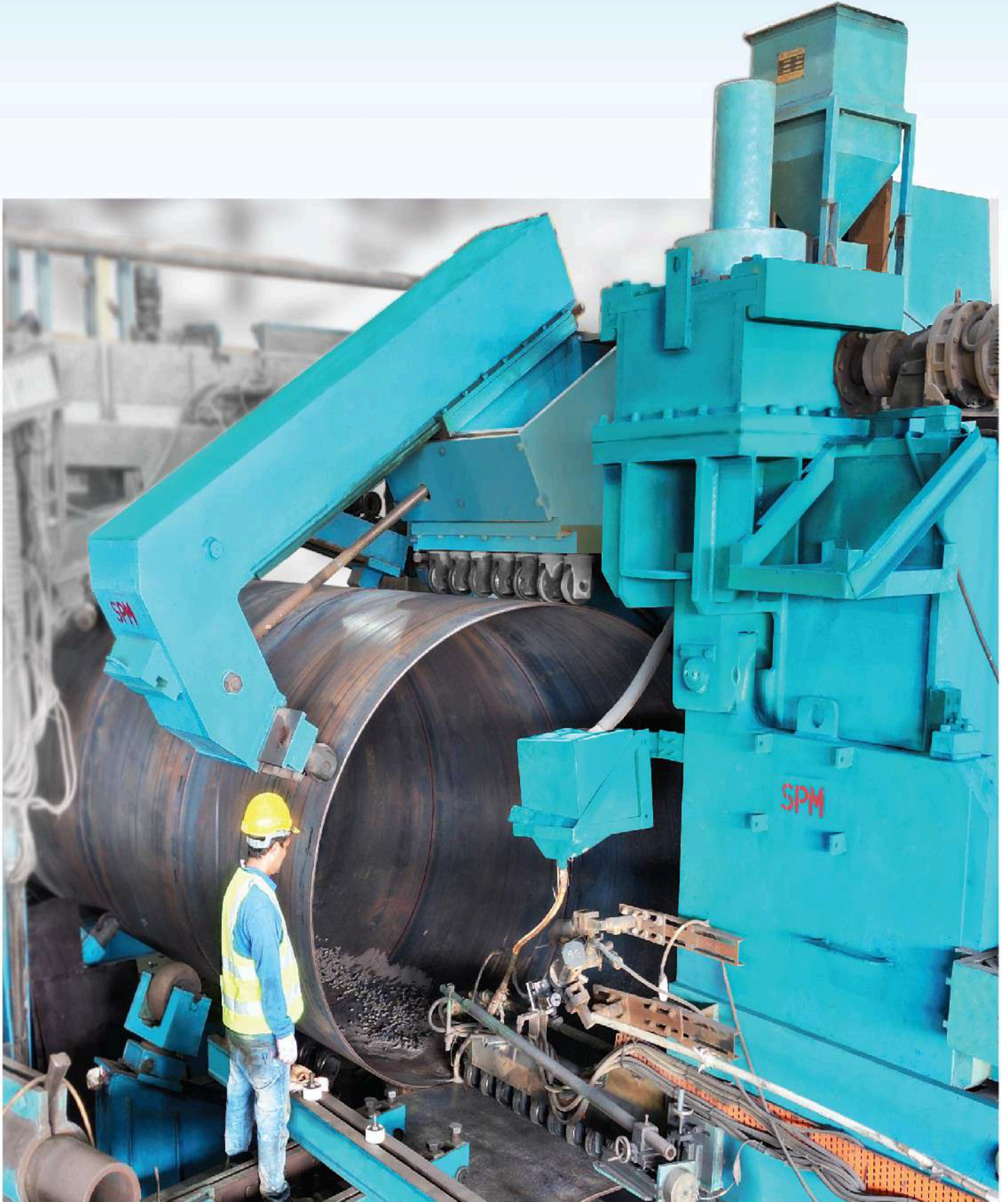





ALLPIPES

ALLPIPES TECHNOLOGY SDN BHD

198601003415(152572-H)



COMPANY PROFILE



Allpipes Technology Sdn Bhd (Allpipes) is a wholly owned subsidiary of Engtex Group Berhad, a company listed on the Main Market of Bursa Malaysia (KLSE) since 2002. The company specializes in the manufacturing of spirally welded steel pipes, catering to a broad spectrum of applications including water supply, sewerage, irrigation, and dredging. Additionally, Allpipes manufactures structural steel pipes that are extensively utilized in infrastructure and construction projects such as jetties, bridges, and high-rise buildings.

Established in 1995, Allpipes' manufacturing plant is strategically located on a 20-acre site in Serendah, Selangor Darul Ehsan. Equipped with four spiral pipe mills, the facility has an annual production capacity of 100,000 metric tonnes of steel pipes. The plant is certified under ISO 9001:2015 and SIRIM ECO 032:2020, and has been granted the right to use the MyHijau Mark in accordance with the Green Label Certification scheme (ISO 14024 Type I ECO-Labels) by Malaysian Green Technology and Climatic Change Corporation (MGTC). Demonstrating its continued commitment to integrity and quality management, Allpipes achieved the ISO 37001:2016 certification for anti-bribery management systems in 2025. As a subsidiary of Engtex Group Berhad, Allpipes also actively supports and aligns with the Group's Environmental, Social, and Governance (ESG) initiatives, reinforcing its dedication to responsible and sustainable business practices.

Allpipes manufactures products ranging in size from ND100mm to ND3,000mm, all of which are certified by IKRAM QA Services Sdn Bhd and ANQAS Certification Sdn Bhd, and approved for waterworks applications in Malaysia by the National Water Services Commission (SPAN). Our mild steel concrete-lined (MSCL) pipes and fittings have received approval from all state water authorities across Peninsular Malaysia, Sabah, and Sarawak. Since 1995, Allpipes has been a trusted supplier of MSCL pipes and fittings for numerous national, state, and inter-state water transfer and distribution projects. Notable projects include the PAAB Langat 2 Water Treatment Plant and Water Reticulation System, the Raw Water Supply Project for RAPID (PAMER), the Sg. Rasau Water Treatment Plant and Water Supply Scheme (Stage 1), as well as the pipeline works for the Water Supply Project from Kemaman, Terengganu to Gebeng, Pahang. In addition to our domestic footprint, our products have also been supplied to international markets such as Singapore.

We are deeply committed to supplying products which meet with the stringiest quality control adopted by our Quality Policy:



Achieve the ultimate goal of Total Customer Satisfaction as our strategic direction through the spirit of commitment towards a quality management system for continual improvement that meets the organisation's purpose and context.



Control our processes ensuring right the first time, every time to produce pipes and fittings of consistent quality that satisfy applicable statutory, regulatory and contractual requirements.

QUALITY CERTIFICATION



MANUFACTURING FLOW

RAW MATERIAL

SPIRAL FORMING



WELDING (INTERNAL & EXTERNAL)



PLASMA CUTTING

HYDROSTATIC TEST



1

2

3

4

5

- Thickness Test
- Mechanical Test
- Chemical Analysis



INCOMING INSPECTION (HOT ROLLED COILS)

- Engagement Test
- Hydrostatic Test
- Dye Penetration Test

IN PROCESS INSPECTION



- Dimensional Check
- Radiographic Test on Weld



IN-PROCESS INSPECTION

**SURFACE PREPARATION
(GRIT BLASTING)**



BITUMEN COATING



YARD

EXPANDER



- Spherical Joint

CONCRETE LINING



DELIVERY

6

7

8

9

10

11



**ADHESION TEST &
HOLIDAY TEST**

**CONCRETE CUBE
TEST**

- Marking
- Holiday Test
- Visual Examination &
Dimensional Inspection

ENGAGEMENT TEST



VISUAL & PROFILE CHECK



PRE-DELIVERY INSPECTION

Note:



- Manufacturing Process Flow



- Quality Control Process

PIPE & FITTINGS SPECIFICATIONS

Dimensions to suit SPAN TS 21827

PIPE ND (inch)	PIPE ND (mm)	PIPE FID (mm)	PIPE OD (mm)	STEEL THICKNESS MINIMUM (mm)	TEST PRESSURE (bar) SPAN TS 21827	CONCRETE THICKNESS MINIMUM (mm)	TOTAL WEIGHT PER METRE* (kg)
4	100	95.1	114.3	3.6	70	6	15.74
6	150	149.1	168.3	3.6	70	6	23.58
8	200	191.1	219.1	4.0	70	10	40.10
10	250	245.0	273.0	4.0	56	10	50.39
12	300	295.9	323.9	4.0	48	10	60.09
14	350	320.6	355.6	4.5	49	13	79.73
16	400	371.4	406.4	4.5	43	13	91.47
18	450	421.0	457.0	5.0	42	13	108.58
20	500	472.0	508.0	5.0	38	13	121.00
24	600	571.4	610.0	6.3	40	13	164.77
26	650	609.4	660.0	6.3	37	19	205.42
28	700	660.4	711.0	6.3	34	19	221.70
30	750	711.4	762.0	6.3	32	19	237.97
32	800	760.8	813.0	7.1	34	19	269.80
34	850	811.8	864.0	7.1	32	19	287.08
36	900	860.0	914.0	8.0	34	19	323.72
38	1000	962.0	1016.0	8.0	30	19	360.55
48	1200	1161.0	1219.0	10.0	32	19	492.52
56	1400	1352.0	1422.0	10.0	27	25	635.14
64	1600	1554.0	1626.0	11.0	26	25	766.98
72	1800	1754.0	1829.0	12.5	26	25	930.40
80	2000	1953.6	2032.0	14.2	27	25	1118.53
88	2200	2153.0	2235.0	16.0	28	25	1328.94
92	2300	2255.0	2337.0	16.0	26	25	1390.34
96	2400	2356.0	2438.0	16.0	25	25	1451.14
100	2500	2455.0	2540.0	17.5	27	25	1604.72
104	2600	2557.0	2642.0	17.5	26	25	1669.89
108	2700	2658.0	2743.0	17.5	25	25	1734.43

Note: We are able to produce any other size as required by the purchaser. (with maximum diameter of 3000mm)

* Approximate weight only

TECHNICAL DATA RANGE FOR PILING / CONSTRUCTION

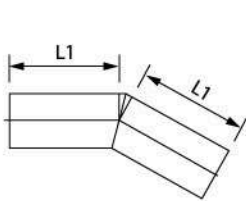
SIZE (D, mm)	THICKNESS (T, mm)	MASS (M, kg/m)	SECTIONAL AREA (Ac, cm ²)	MOMENT OF INERTIA (I, cm ⁴)	RADIUS OF GYRATION (i, cm)	ELASTIC SOLUTION MODULUS (W, cm ³)
610	10	148	188	84847	21.2	2782
	12	177	225	100814	21.1	3305
	14	206	262	116457	21.1	3818
711	10	173	220	135301	24.8	3806
	12	207	264	160991	24.7	4529
	14	240	307	186235	24.6	5239
813	10	198	252	203364	28.4	5003
	12	237	302	242235	28.3	5959
	14	276	351	280519	28.3	6901
914	12	267	340	345890	31.9	7569
	14	311	396	400886	31.8	8772
	16	354	451	455142	31.8	9959
1016	12	297	378	476985	25.5	9389
	14	346	441	553192	25.4	10890
	16	395	503	628479	25.4	12372
1219	14	416	530	962072	42.6	15785
	16	475	605	1094091	42.5	17951
	18	533	679	1224782	42.5	20095
1500	15	550	700	1930000	52.5	25700
	16	5856	746	2050000	52.4	27400
	18	658	838	2300000	52.4	30682
1800	18	791	1008	4000367	63.0	44449
	20	878	1118	4430010	62.9	49222
	22	965	1229	4856734	62.9	53964
2000	18	880	1121	5504009	70.1	55040
	20	977	1244	6097190	70.0	60972
	22	1073	1367	6686751	69.9	66868
2500	20	1223	1558	11980451	87.7	95844
	22	1344	1713	13146820	87.6	105175
	25	1526	1944	14885719	87.5	119086

STEEL GRADES FOR PILING / CONSTRUCTION

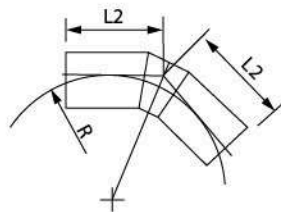
EN10219-1	MIN YIELD STRENGTH (T ≤ 16mm) N/mm ²	MIN YIELD STRENGTH (16 ≤ T < 40mm) N/mm ²	MIN ULTIMATE TENSILE STRENGTH (3 < T ≤ 40mm) N/mm ²	MIN ELONGATION (T ≤ 40mm) %
S235JRH	235	225	360-510	24
S275JOH	275	265	410-560	20
S355JOH	355	345	470-630	20
S420MH	420	400	500-660	19

DIMENSIONS OF GUSSETED BENDS

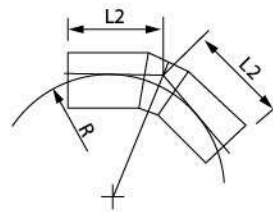
Dimensions to suit SPAN TS 21827



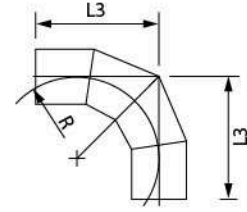
Type 1, Not more than 30°



Type 2, Over 30° up to 45°



Type 2, Over 45° up to 60°



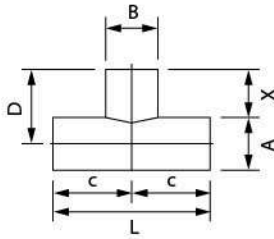
Type 3, Over 60° up to 90°

INCH	NOMINAL DIAMETER (mm)	TYPE 1		TYPE 2			TYPE 3	
		LESS THAN 30°		OVER 30° TO 45°		OVER 45° TO 60°	OVER 60° TO 90°	
		L1 mm	R mm	L2 mm	R mm	L2 mm	R mm	L3 mm
4	100	175	150	200	150	250	150	300
6	150	225	225	300	225	300	225	400
8	200	300	300	350	300	400	300	500
10	250	375	375	450	375	500	375	650
12	300	375	450	450	450	500	450	700
14	350	450	525	550	525	600	525	800
16	400	450	600	600	600	600	600	850
18	450	450	675	600	450	600	450	850
20	500	450	750	600	500	600	500	850
24	600	550	900	750	600	750	600	1000
26	650	550	975	750	650	750	650	1000
28	700	550	1050	800	700	750	700	1100
30	750	600	1125	850	750	850	750	1100
32	800	600	1200	850	800	850	800	1200
34	850	600	1275	850	850	850	850	1200
36	900	600	1350	900	900	900	900	1300
40	1000	750	1500	1100	1000	1100	1000	1500
42	1050	750	1500	1100	1000	1100	1000	1500
44	1100	750	1500	1100	1000	1100	1000	1500
48	1200	850	1800	1200	1200	1200	1200	1700
52	1300	850	1800	1200	1200	1200	1200	1700
56	1400	850	2100	1300	1400	1300	1400	1900
60	1500	850	2100	1300	1400	1300	1400	1900
64	1600	900	2400	1400	1600	1400	1600	2100
68	1700	900	2400	1400	1600	1400	1600	2100
72	1800	900	2700	1500	1800	1500	1800	2200
76	1900	900	2700	1500	1800	1500	1800	2200
80	2000	1000	3000	1600	2000	1600	2000	2500
84	2100	1000	3000	1600	2000	1600	2000	2500

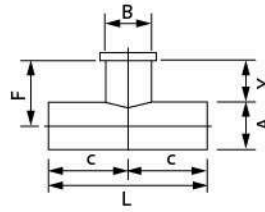
Note: We are able to produce any other size as required by the purchaser. (with maximum diameter of 3000mm)

DIMENSIONS OF TEES

Dimensions to suit SPAN TS 21827



Plain end tee for slip-on type coupling and butt-welded joint



Tee with flange branch

C = 1.5B But with minimum of 1/2 A

INCH	BARREL SIZES		PLAIN ENDED BRANCH SIZES	FLANGE ENDED BRANCH SIZES
	Nominal Diameter (mm)	L	$D = 1/2A + X$	$F = 1/2A + Y$
			A	X
4	100	270 X 2	200	130
6	150	290 X 2	200	140
8	200	370 X 2	250	150
10	250	410 X 2	250	160
12	300	450 X 2	250	180
14	350	530 X 2	300	200
16	400	600 X 2	300	230
18	450	2C or 3B	300	300
20	500	2C or 3B	300	300
24	600	2C or 3B	300	300
26	650	2C or 3B	300	300
28	700	2C or 3B	300	300
30	750	2C or 3B	380	300
32	800	2C or 3B	380	300
34	850	2C or 3B	380	300
36	900	2C or 3B	380	300
40	1000	2C or 3B	380	380
42	1050	2C or 3B	380	380
44	1100	2C or 3B	380	380
48	1200	2C or 3B	380	380
52	1300	2C or 3B	380	380
56	1400	2C or 3B	380	380
60	1500	2C or 3B	380	380
64	1600	2C or 3B	380	380
68	1700	2C or 3B	380	380
72	1800	2C or 3B	380	380
76	1900	2C or 3B	380	380
80	2000	2C or 3B	380	380
84	2100	2C or 3B	380	380

Note: We are able to produce any other size as required by the purchaser. (with maximum diameter of 3000mm)

PROJECT REFERENCE - PIPES



Various pipes sizes from 168mm to 610mm OD Pipes for Kundasang, Sabah



2540mm OD Pipes for Langat 2 (Package 10)



2438mm OD Pipes for Sg. Rasau



1320mm OD Pipes for Rapid ('PAMER')



2032mm OD Pipes for Langat 2 (Package 4)



3020mm & 1626mm OD Pipes for Langat 2 (Package 1B)

PROJECT REFERENCE - SPECIAL FITTINGS



MINI HYDRO



POLYURETHANE LINED PIPES



STEEL PIPES PILE



ID1500 x 20mm thk x 30m long steel casing for Pasi Road to Sibul/Tg Manis Road



ID1500 x 16mm thk x 12m long steel casing for West Coast Highway bore piling work, Klang

STEEL PIPES CASING





ALLPIPES

ALLPIPES TECHNOLOGY SDN BHD

198601003415(152572-H)



SALES OFFICE

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