



KKB Engineering Berhad (26495-D)



**SUBMERGED
ARC WELDED
(SAW) TUBULAR
PILES**



CONTENTS



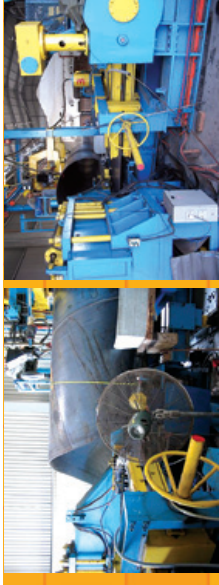
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RANGE OF SPIRAL WELDED STEEL PILE SIZES/ WALL THICKNESSES

Wall Thicknesses	(inch)	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.9	1
	(mm)	6	8	10	12	14	16	18	20	22	24	25
Diameter:												
(inch)	(mm)											
20	500											
24	600											
28	700											
32	800											
36	900											
40	1000											
44	1100											
48	1200											
52	1300											
56	1400											
60	1500											
80	2000											
100	2500											

Spiral Welded Steel Pipe

- Manufacturing Process, Production and Control



SPRAL FORMING MILL

- a. Hot rolled coils of top quality produced under strict specifications are used.
- b. Internal / External Welding: Submerged Arc Welding Method.

Welded seams of spirally-welded pipes are along its circumference. Therefore, the accuracy of straightness and roundness is guaranteed. Consequently, a correction of bend is not necessary.

HYDROSTATIC PRESSURE TEST

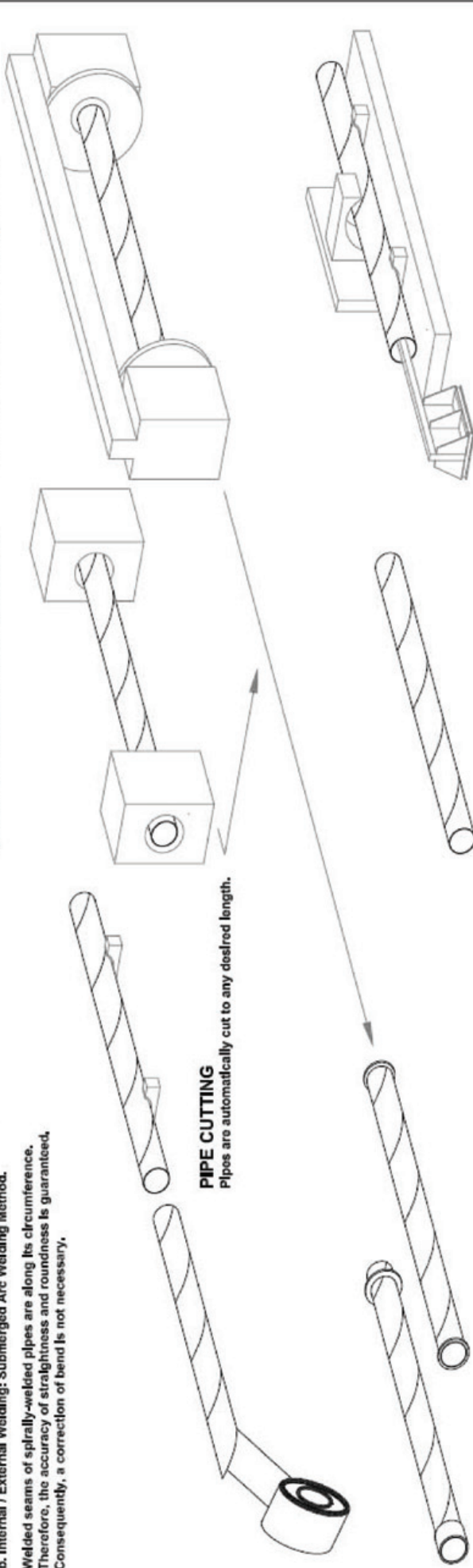
Pipes are subjected to hydrostatic pressure tests which are conducted by remote valve control and automatically recorded.

PIPE-END BEVELLING

Pipe ends are bevelled to all desired specifications.

PIPE CUTTING

Pipes are automatically cut to any desired length.



END PREPARATION

Various types of flanges, collars or other attachments are available according to customer's specification.

FINAL INSPECTION

Surface and dimensions of pipes are carefully inspected prior to protective coating applications.

SURFACE PREPARATION

Steel Grit Blasting - Prior to coating / lining applications, pipes are cleaned externally & internally by an automated blasting machine.

FINISHED PRODUCTS

EXTERNAL COATING & INTERNAL LINING



Non-Destructive Testing (NDT)

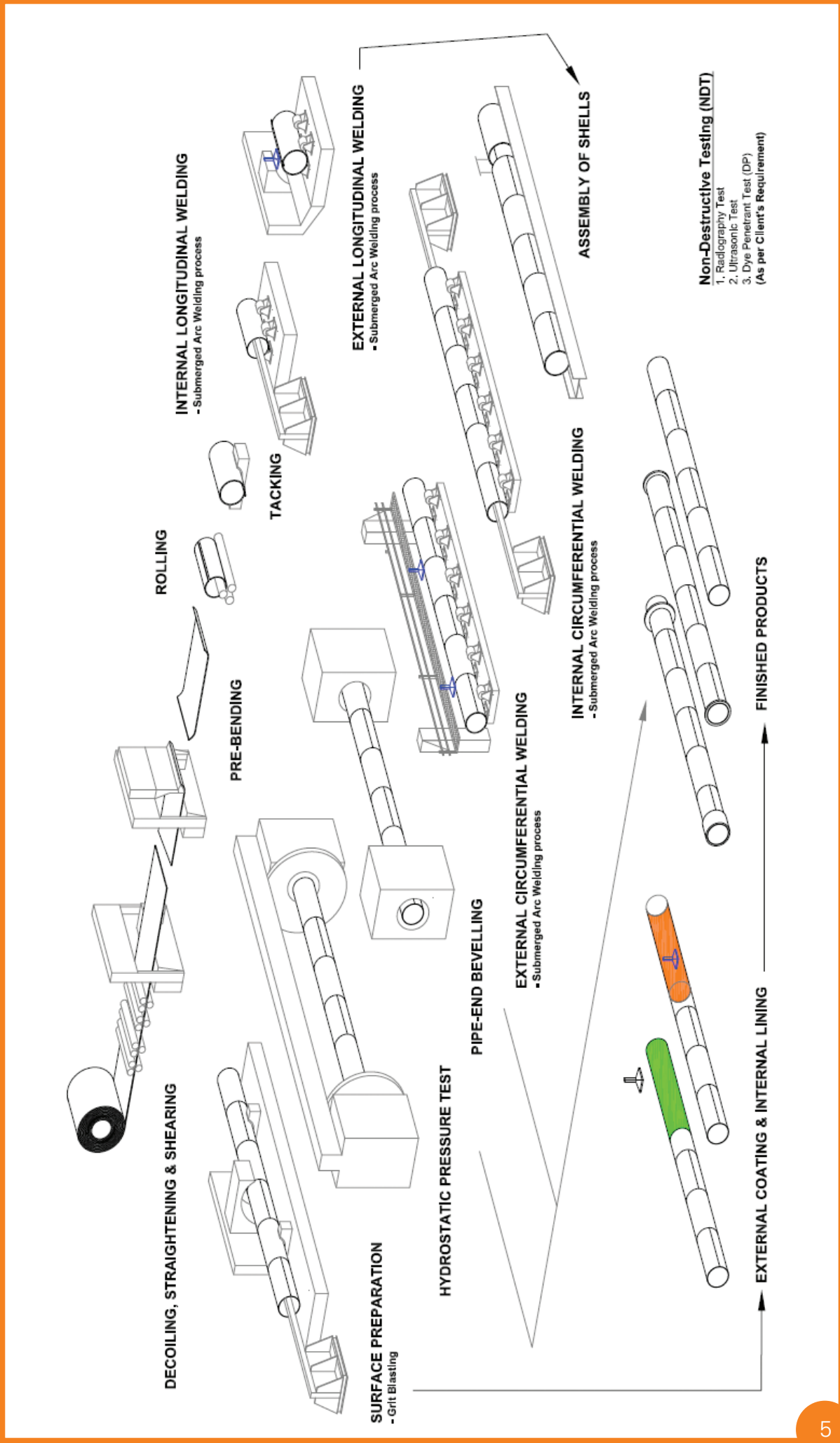
1. Radiography Test
 2. Ultrasonic Test
 3. Dye Penetrant Test (DP)
- (As per Client's Requirement)

RANGE OF SECTIONAL WELDED STEEL PILE SIZES / WALL THICKNESSES

Wall Thicknesses:	(inch)	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.9	1
	(mm)	6	8	10	12	14	16	18	20	22	24	25
Diameter												
(inch)	(mm)											
16	400											
20	500											
24	600											
28	700											
32	800											
36	900											
40	1000											
44	1100											
48	1200											
52	1300											
56	1400											
60	1500											
80	2000											
100	2500											

Sectional Welded Steel Pipe

- Manufacturing Process, Production and Control



Product specification

Manufacturing Standards

- BS 3601
- ASTM A 252
- API 5L
- DIN 17100 - 1980

Surface Coating Systems

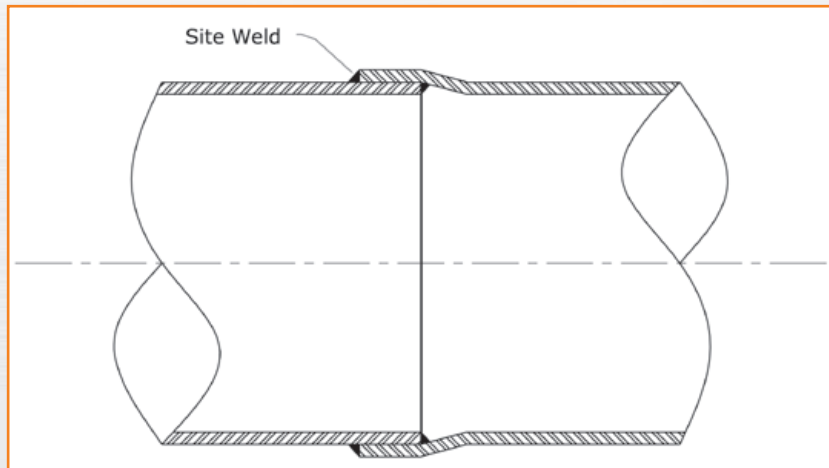
External Coating Selection:-

- Coal Tar & Asbestos Felt Wrap, AWWA C 203
- Coal Tar & Fibrous Glass Mat Wrap, AWWA C203
- Asphalt Coating, Dipping or Painting
- Epoxy Coating, AWWA C210
- Hot Dip Galvanizing
- Others as Per Client's Requirement

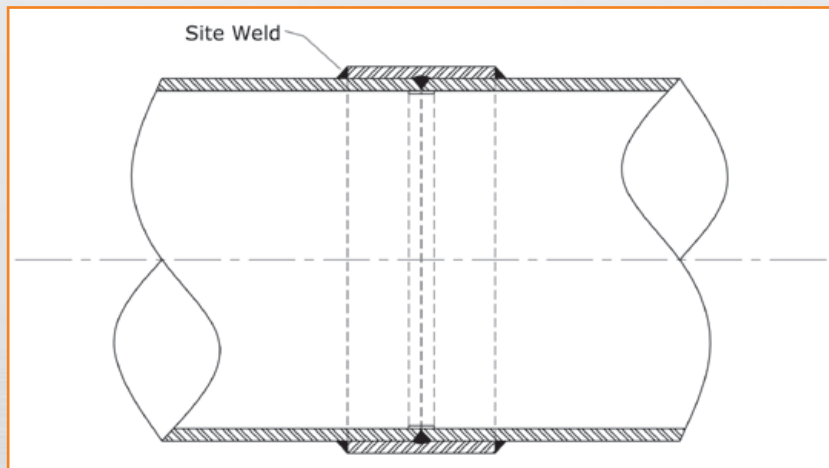


Typical Detail of Steel Pile Jointings

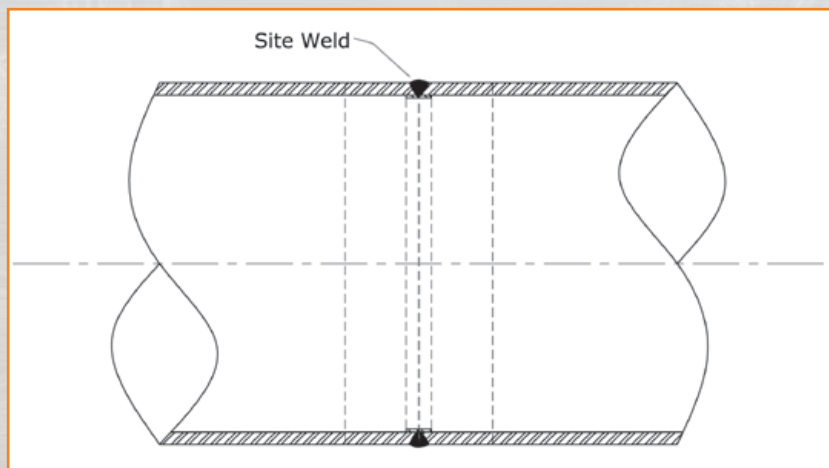
A. Expanded / Socketed



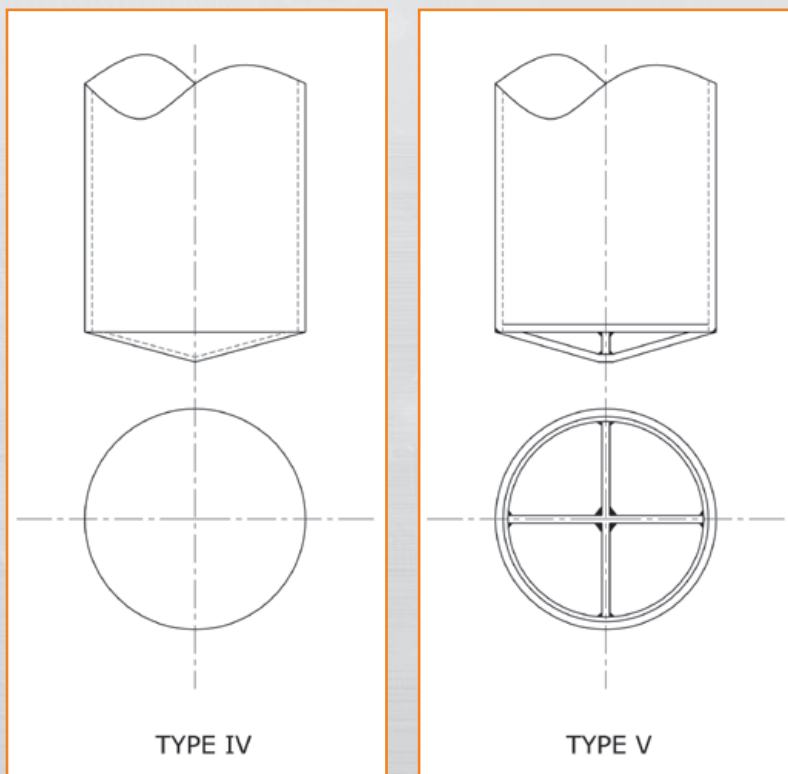
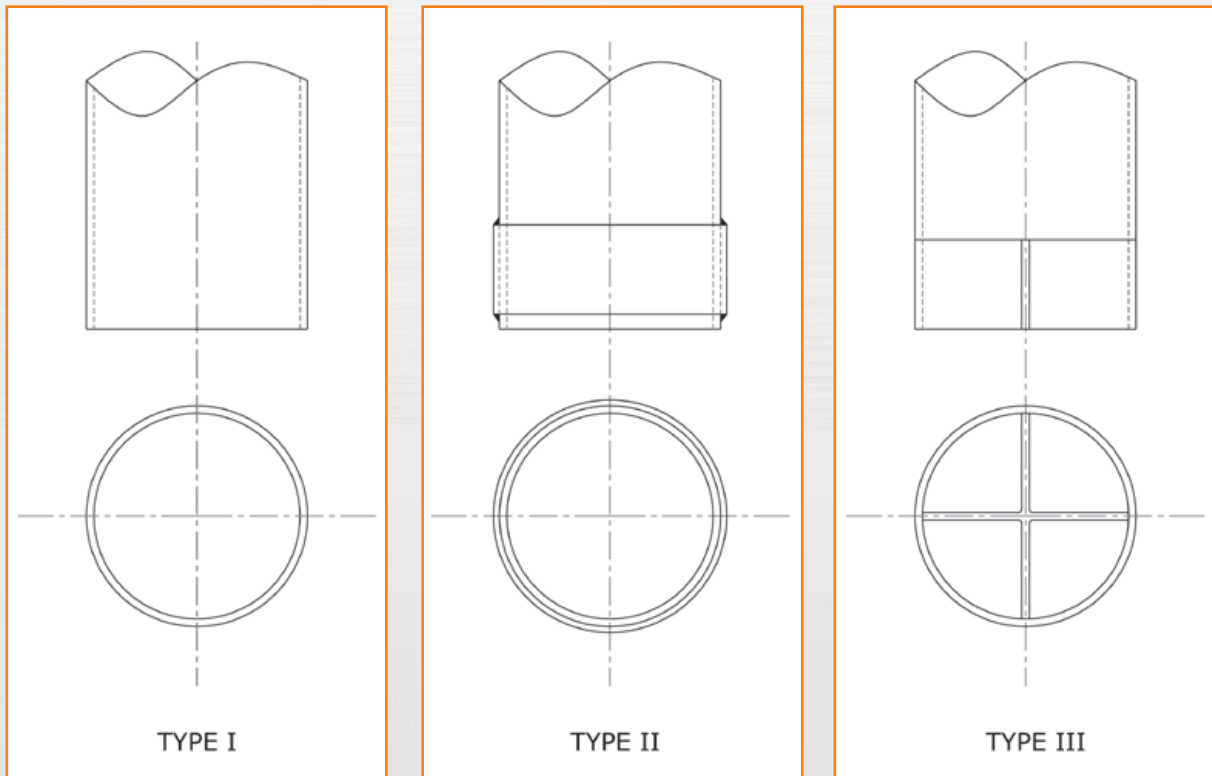
B. Sleeve & Backing Ring:



C. Beveled End Joint With Backing



Typical Details of pile shoes



OTHER PRODUCTS & SERVICES:

- **Steel Fabrication** *(ISO 9001 : 2015 & ISO 45001: 2018 Certified)*
- **Hot-Dip Galvanizing** *(ISO 9001 : 2015 & ISO 45001: 2018 Certified)*
- **Steel Pipes Manufacturing** *(ISO 9001 : 2015 Certified)*
- **LPG Cylinders Manufacturing** *(ISO 9001 : 2015 & ISO 45001: 2018 Certified)*
- **Civil Construction** *(ISO 9001 : 2015 & ISO 45001: 2018 Certified)*
- **uPVC Roofing Sheets Manufacturing**



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