

PRO-CAST

Solid Foundations,
Strong Futures.

PRECAST CONCRETE SOLUTIONS

CONCRETE PIPES

MS
SIRIM



INTRODUCTION

Pro-Cast Concrete Pipes are precast reinforced pipes designed for reliable underground drainage and water flow systems. Made for strength, stability, and long service life, they provide a practical solution for infrastructure works where consistent pipe quality and dependable performance are required.

INSTALLATION & METHOD

The pipe system is installed by forming a proper trench, preparing the base, positioning each pipe section, and completing the joint connection before backfilling.

Installation sequence:

- Set the pipe alignment and required gradient.
- Excavate the trench to the approved depth.
- Prepare compacted bedding to support the pipe.
- Place the pipe carefully using suitable machinery.
- Join each pipe section securely.
- Check level, alignment, and flow direction.
- Backfill both sides evenly and compact by layers.
- Complete finishing and inspection works.

ADVANTAGES

- Strong reinforced concrete body for underground use.
- Precast production allows better quality control.
- Suitable for fast site installation.
- Stable pipe shape and size for accurate alignment.
- Designed to handle drainage and infrastructure loading needs.
- Available in various pipe sizes for different project requirements.
- Long-lasting solution with lower on-site construction work.

APPLICATION

The Concrete Pipes system is suitable for the following applications:

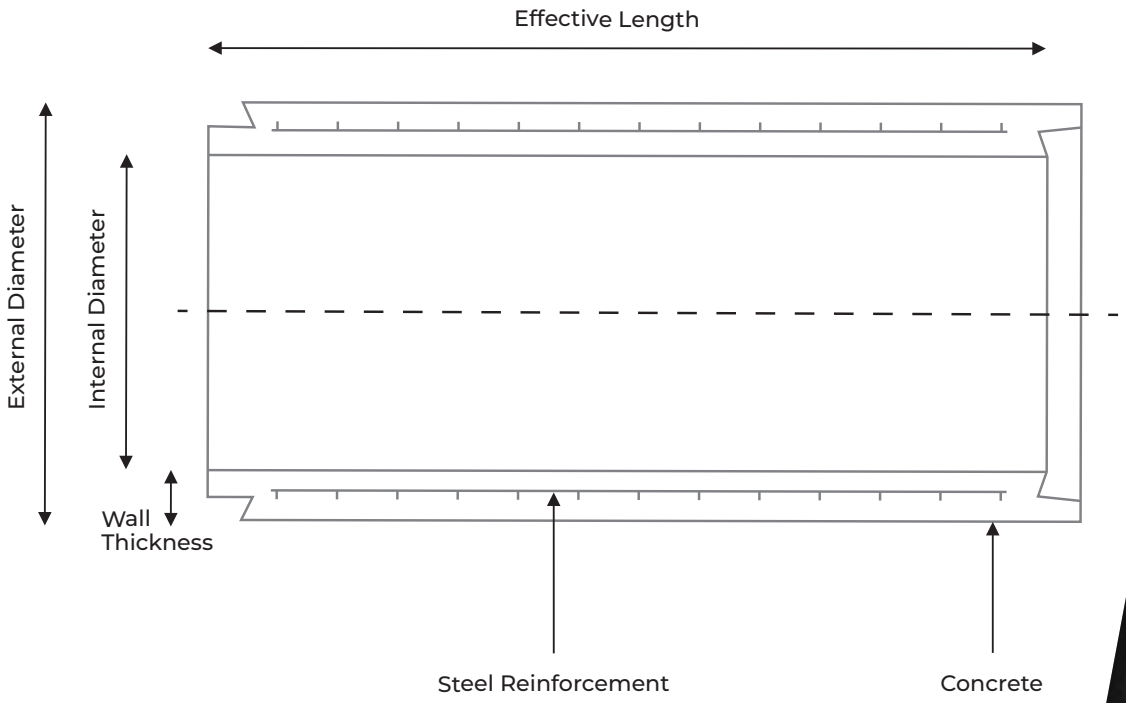
- Surface water drainage
- Road and highway drainage systems
- Sewerage and wastewater lines
- Culvert and crossing works
- Infrastructure and township development
- Industrial drainage systems
- Flood control and discharge channels

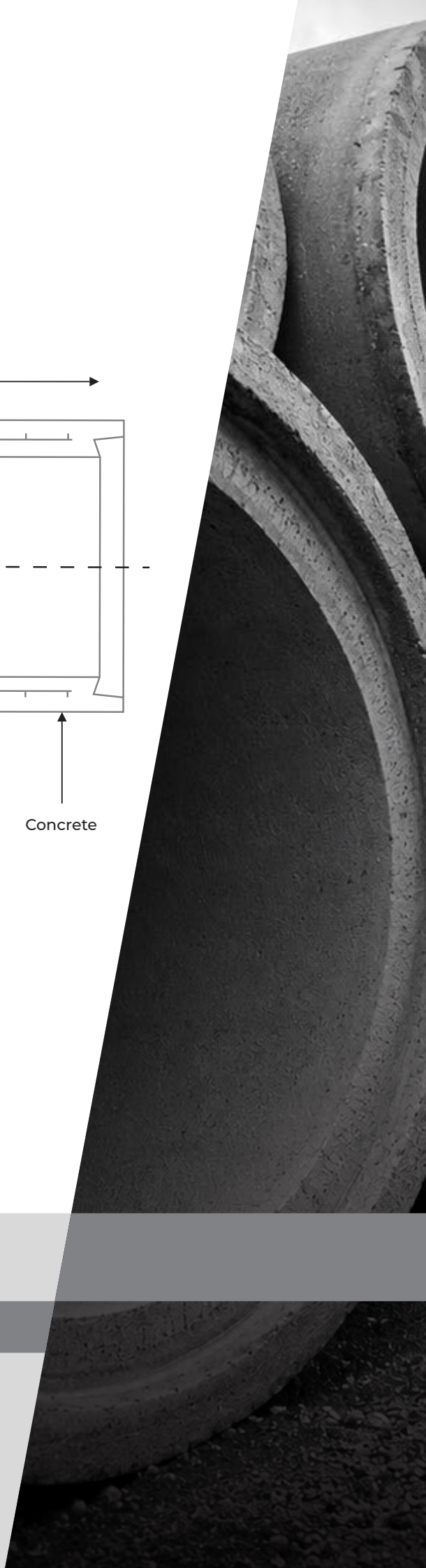
Size (mm)	Length (m)	Wall Thickness (mm)	External Dia (mm)	Weight (Ton)
450	2	45	540	0.34
600	2	50	700	0.49
750	2	55	860	0.67
900	2	65	1030	0.95
1050	2	75	1200	1.27
1200	2	85	1370	1.65
1350	2	95	1540	2.07
1500	2	100	1700	2.41
1800	2	125	2050	3.63

Size (mm)	Class L		Class M		Class H	
	Proof Load	Max Load	Proof Load	Max Load	Proof Load	Max Load
450	20	25	35	44	41	52
600	20	25	46	58	54	68
750	38	48	53	67	65	81
900	46	58	67	84	85	106
1050	51	64	76	95	96	120
1200	58	72	87	109	110	138
1350	63	79	96	120	122	153
1500	69	87	104	130	132	165
1800	82	103	124	155	158	198

DETAIL

CONCRETE PIPES





PRO-CAST

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