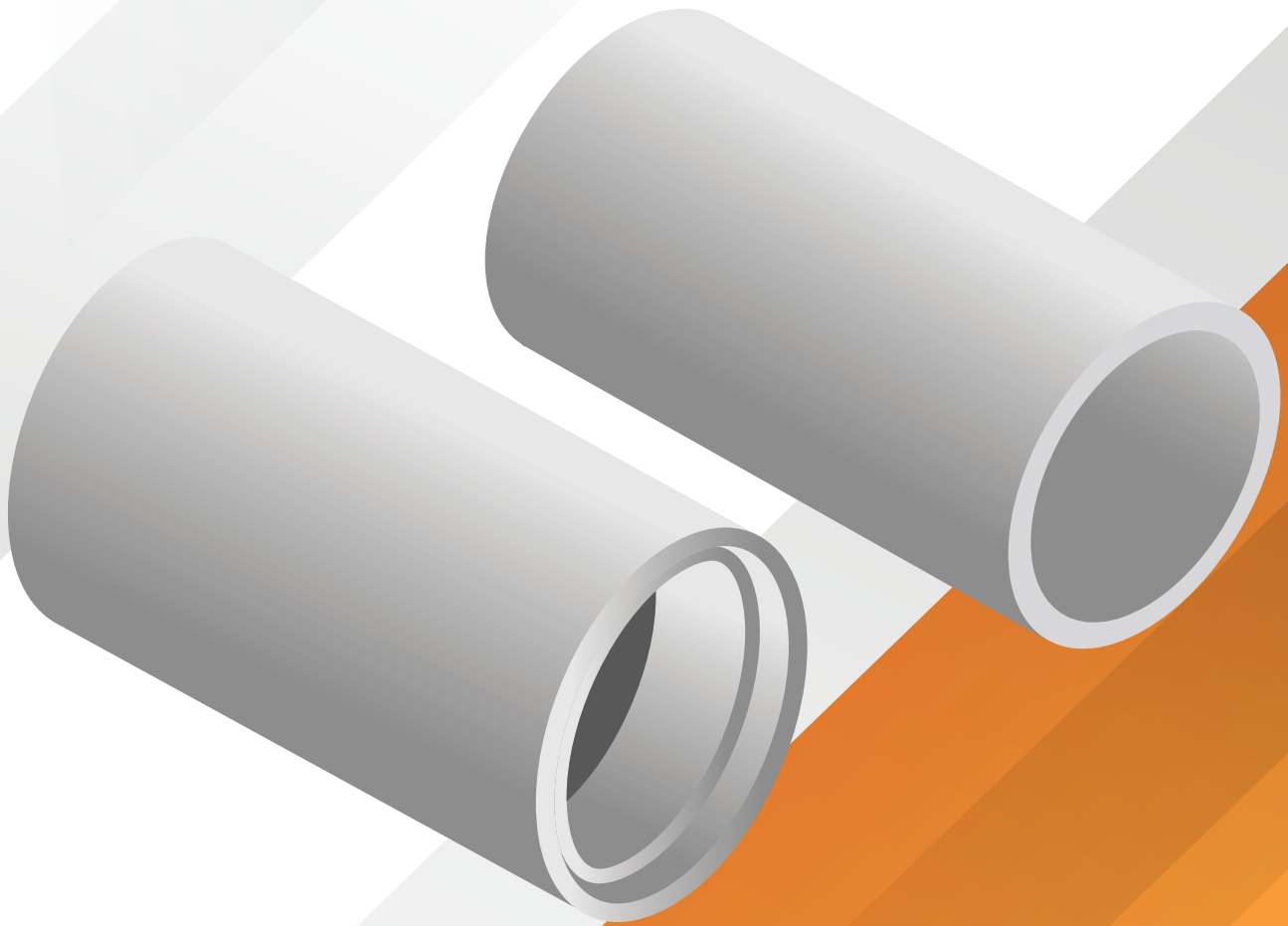


PRECAST REINFORCED CONCRETE PIPE CULVERT



- ✓ diameter sizes available from 300 mm to 1800 mm
- ✓ length 1.52 meter
- ✓ suitable for land drainage and sewerage unit

LTH REINFORCED CONCRETE PIPE CULVERT



FEATURES

- LTH Precast Reinforced Concrete Pipe is available in internal diameters ranging from 300 mm to 1800 mm, with an effective length of 1520 mm.
- The manufacturing method involves using the centrifugal spinning process during concrete pouring into the mould. This process ensures uniformity across products and is key to achieving the desired strength and functionality.
- LTH Precast Reinforced Concrete Pipe is suitable for land drainage and sewerage units, with Ogee or Rebated joint being the most commonly used in Malaysia.

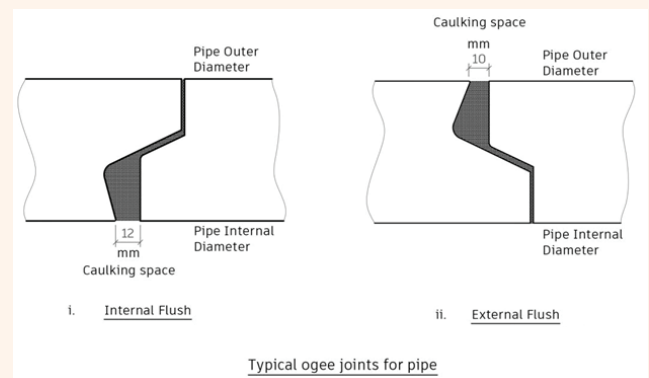


DESIGN CONSIDERATION

- LTH Precast Concrete Pipe are design based on the loads and requirements from MS 881:1991. The characteristic strength of concrete, fcu is to be 40 N/mm².
- Precast Concrete Pipes should be buried under the permitted depth of earth or fill soil above the pipe to avoid direct impact and to act as cushion.
- The pipe class shall be selected based on site requirements such as installation conditions, depth of fill above the pipe culvert, type of bedding, and superimposed load conditions.

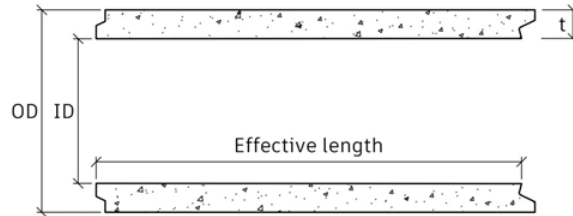
Joint details

- There are two types of flush for Ogee (rebated) joints: internal and external flushes.
- The caulking spaces is required to be filled with suitable sealant material, such as cement mortar (provided by others).



DIMENSION PIPE CULVERT

We are open to custom orders that are designed to meet the unique requirements of your project.



Internal Diameter (ID) mm	Outer Diameter (OD) mm	Thickness (t) mm	Effective Length mm	Approximate Weight tonne
300	370	35	1520	0.133
375	445	35	1520	0.162
450	540	45	1520	0.252
600	700	50	1520	0.368
750	860	55	1520	0.501
900	1030	65	1520	0.709
1200	1370	85	1520	1.235
1500	1700	100	1520	1.810

CRUSHING TEST LOADS for PIPES

- Land Drainage
The works proof load and the maximum load should be equal to or greater than (\geq) 20kN and 25kN per meter of effective length ; respectively.
[Cl. 18 - MS 881 : Part 3 : 1991]
- Class S is commercial pipe and land drainage loading type, used for temporary drainage / light weight.
- Sewerage Pipes

Nominal Size of Pipe mm	Class L		Class M		Class H	
	Work Proof Load	Maximum Load	Work Proof Load	Maximum Load	Work Proof Load	Maximum Load
300	20	25	23	29	36	45
375			31	39		
450			35	44		
600			46	58		
750	38	48	53	67	65	81
900	46	58	67	84	85	106
1200	58	72	87	109	110	138
1500	69	87	104	130	132	165

(kN per meter of effective length)
[Table 2 : MS 881 : Part 3 : 1991]

Class L, M and H are conforms to MS 881 : 1991