

Markham Culverts Ltd Assembly Guide Flanged Nestable Pipe Arch

Class1 AS/NZS 2041:1988 – 68 x 13mm Corrugation



Please note:

The photographs shown in this document are of pipe being assembled on a grass lawn are for demonstration purposes only, the pipes must be placed on properly prepared beds.

All corrugated steel pipes being used as Buried Metal Corrugated Structures share must be installed on prepared beds, backfilled and compacted in full compliance with AS/NZS 2041:1998:

Pressures under the haunches of pipe arch structures are higher than that in full circle pipes & care should be taken to ensure the bed is prepared to withstand the extra load and that fill is pushed under and around the haunches and is properly compacted to full AS/NZS 2041:1998 specifications.



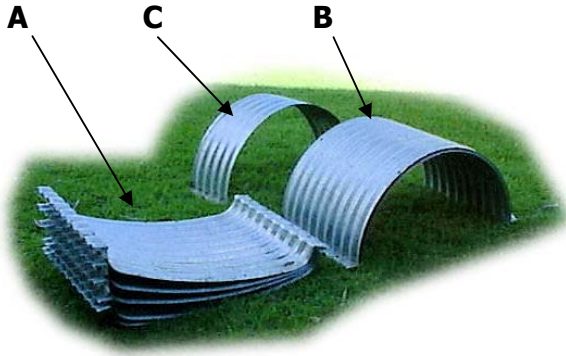
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Assembly Instructions Flanged Nestable Pipe

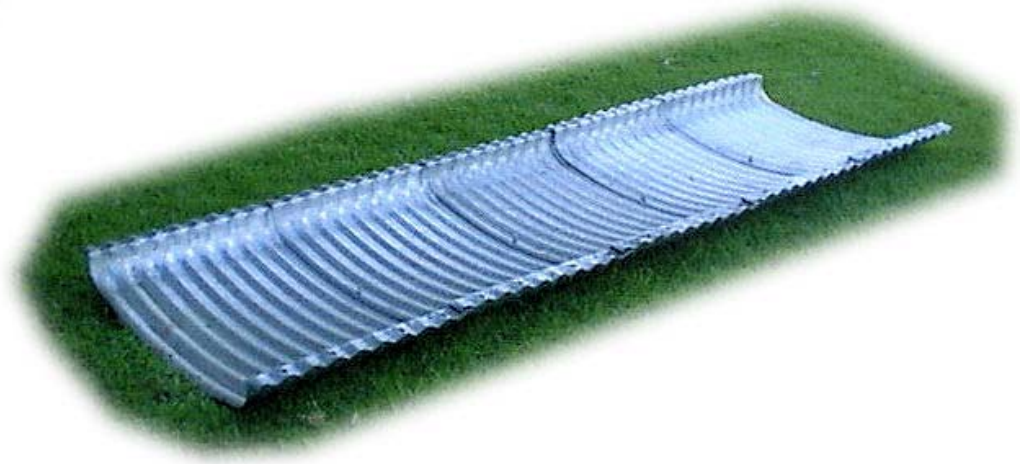


The sheets arrive on site in "Nested" bundles

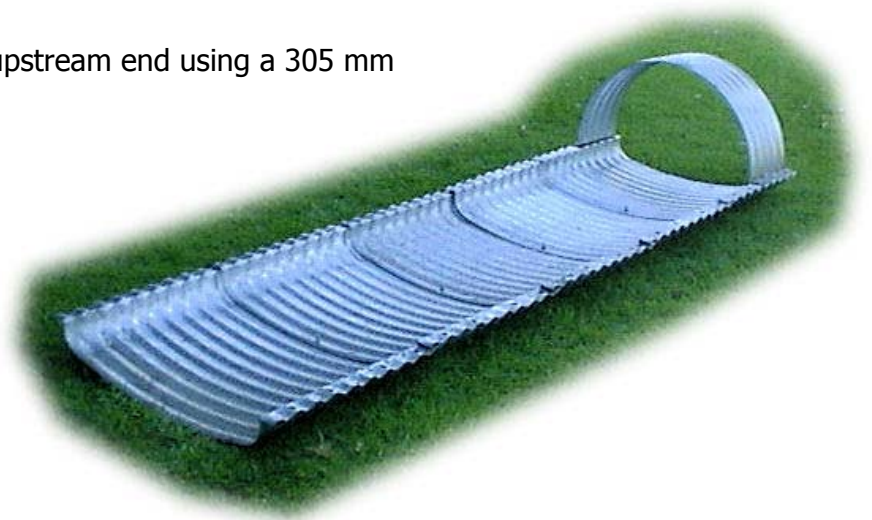
- A:** Full Invert (Bottom) Sheets
(610mm Net Laying length each.)
- B:** Full Crown (Top) Sheets
(610mm Net Laying length each.)
- C:** End closure ½ Crown (Top) Sheets
(305mm Net Laying length each.)– these may be inside a full bundle



- 1) Starting at the downstream end lay the first invert plate ("A") on the pre-prepared bed and attach the second plate, lapping on top of the first sheet & inserting the bolt (s) from underneath
- 2) Working upstream attach each invert plate in the same manner until you complete the invert – pulling into alignment on your centre line as you proceed.



- 3) Start laying the Top sheets at the upstream end using a 305 mm half sheet ("C")





4) Continuing from the upstream end lay the Full crown sheets using the 610 mm wide half circle Top Sheets – note & maintain the half sheet stagger between top & bottom plates. Insert all nuts & bolts as you assemble – keep the nuts & bolts relatively loose on the two rings next to where you are placing sheets.



5) Finish off the top by using another 305 mm half sheet ("C")



6) Progressively tighten all bolts – Since it is the flange faces taking the load and not the bolts there are no specific torque requirements for flange type Nestable pipe seam bolting, however, a firm good tight seam is required - using a standard hand socket or spanner. All Nuts & bolts must be tightened.

Nestable Pipe Assembly Times

