

Installation

Assembly Times

The following simple formula will give approximate times for the assembly of Corrugated Steel Plate Structures based on results of many installations. The formula is a guide only. CSP Pacific is not liable for use of this formula.

Mathematically $T = L \times P \times F$

T = Assembly time in man hours

L = Invert length in metres

P = Number of plate per ring

F = Factor of difficulty and varies with the type of structure, size, accessibility of site assembly crew experience and use of mechanical handling equipment.

Some interpolation is necessary in determining F depending on crew skill and site conditions.

F = 1.0 For Pipes

1.2 For Pipe-Arch & Underpass

1.35 For Arches

Methods of Assembly

Multiplate sections are delivered on site ready for field assembly complete with all necessary plates, bolts and nuts. Basic erection tools are also available. Individual plates are bolted together in strict accordance with assembly drawings and detailed instructions supplied by the manufacturer. In addition, and depending on job circumstances, the services of qualified CSP Pacific engineers can be made available for on-site inspection, advice or assistance.

Backfilling

Multiplate structures require a properly compacted elastic backfill to allow complete mobilisation of the pipe strength. Free draining granular materials are an ideal backfill medium. Backfilling procedures should follow recommendations in AS/NZS 2041:1998 available from Standards New Zealand 0800 735 656 or www.standards.co.nz.