
In-situ GRP Pipe Cutting

GRP Pipe

GRP pipe is a composite materials of silica sand, fiberglass reinforcements, polymer resin, and other chemicals used for processing. Normally, it is supplied to the customer in 12-meter lengths. However, it can be agreed at ordering phase to have it factory-cut to specific lengths. This is the recommended and preferred way.

But, in situations where cutting at the project site is inevitable, do the following steps.

Cutting Procedure:

1. Position the pipe on a leveled ground and support it in at least 2 points at some distance from its both ends;
 2. The pipe saddle support could be a 50mm x 50mm x DN wooden sleepers;
 3. Measure the required length on 4 points along the circumference of the pipe from a reference end where the cut was originally made at the factory;
 4. If both ends of the pipe to be cut is no longer the original factory-cut, construct the centerline of the pipe as follows:
 - a. Using a center-finder tool (fig. 1), mark the centerline of the pipe on several points longitudinally;
 - b. Connect these lines and from this centerline construct the cutting line perpendicular to the centerline;
 5. If the thickness of the pipe is equal or less than 25mm, a 4" angle grinder can be used. Else, use the 7" angle grinder (fig. 2) for thicker pipe;
 6. Secure the pipe by putting wooden wedges on both sides;
 7. With the diamond-tip cutting wheel properly installed and secured on the angle grinder, and with the cutting technician equipped with appropriate PPE, cut the pipe according to the cutting mark.
- Important: Squareness of the pipe must be assured.

ABC Pipe Installation Company

Tools Required:

1. Angle grinding power tool
2. Diamond-tip cutting disc
3. Center-Finder Tool

METHOD STATEMENT

Center-Finder Tool



Fig. 1 center-finder

Angle Grinder



Fig. 2 7-inch angle grinder



Fig. 3 Diamond-tip cutting wheel

Reminder: The person assign for cutting must have prior experience in using angle grinding power tools.