

Hangar Site Selection:

Most airports are relatively level and flat so construction should not be a problem. The hangar site should be flat, but not necessarily level. A few degrees of slope should not cause any assembly problems and could help in draining off any water. After and during construction you need to be able to walk around the perimeter of the hangar. A 3 foot clearance is recommended. There needs to be sufficient space in front of the hangar for ground handling of the sailplane. Figure 1 gives both the recommended hangar perimeter clearance and the recommended ground handling space requirements for moving a 15 meter sailplane in and out of the hangar.

Figure 2 gives the assembled hangar foot print dimensions.

Tail And Wing Post Location:

Setting the three support posts in the exact location is critical to the successful assembly of the hangar. The success of each step of assembly is based on the accuracy of the previously completed step. There will be little variance in the hangar frame pieces, so after properly setting the support posts, the framework should match up to the posts precisely. **Refer to Figure 3 for the following.**

1. Determine the location of the TAIL POST. The TAIL POST should be located at least 3 feet away from any obstruction. At this location drive one of the large nails provided into the ground. This nail will be referred to as the TAIL POST NAIL.
2. The front of the hangar will be located 18'-6" from TAIL POST NAIL. Using a steel tape measure, measure 18'-6" from the TAIL POST NAIL and drive another large nail into the ground. This nail will be referred to as the HANGAR FRONT NAIL.
3. The MAIN GEAR TURNING DISH will be located 57' from the TAIL POST NAIL and directly in line with the HANGAR FRONT NAIL. Using a steel tape measure, measure 57' from the TAIL POST NAIL and drive another large nail into the ground. This nail will be referred to as the MAIN GEAR TURNING DISH NAIL.
4. Tie a chalk line to the TAIL POST NAIL. Stretch this chalk line to the HANGAR FRONT NAIL and tie the chalk line to this nail. This taught chalk line forms the centerline of the hangar.
5. You are now going to locate the right and left wing post locations. Using a steel tape measure, measure 26' straight off to the right of the centerline. Leave this tape in this position. You will be adjusting this tape position in the next step.
6. Starting at the TAIL POST NAIL, using a second steel tape, measure 31'-11" toward the 26' end of the first tape. The two tapes should cross each other at the 26' and 31'-11" mark. This is the location of the right wing post. Drive a long nail in the ground at this location. Repeat this procedure for the left wing post location.