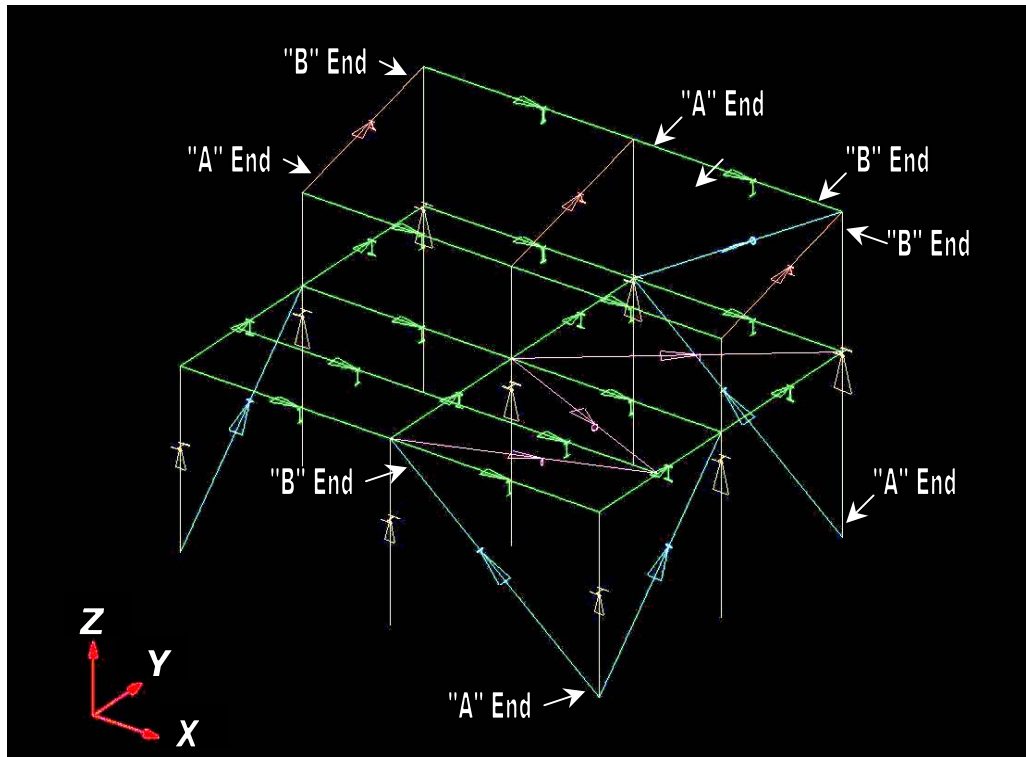


Marking Location Aids Erection

Erection of steel frame structures is not an easy process. Thousands of pieces of steelwork, plates and bolts all have to be installed in exactly the right place, at the right time, the right way up and the correct way round. The location of the mark is typically 500mm in from one end and on the top flange. Marking Plans will usually show which way around the beam should go but on nearly symmetrical beams or columns errors can easily occur. This is where the detailer can help the erector by sticking to a standard mark location relative to the site plan. i.e. Always top South or West.



Key Points:-

1. Most detailing is carried out using Strucad or similar detailing packages. Make the model datum point the mark indicator and set the mark location at the "A" end of the member.
2. Model all horizontal members from left to right or bottom to top. This should then correspond to south to north or west to east.
3. Model all vertical members upwards. This will ensure that the bottom of the member has the mark.
4. Use the rotation command on columns to ensure that the mark appears on the correct face. If you prefer, perimeter columns could be marked on the outside face so that like columns on either side of the building remain the same mark.
5. Model all sloping members from top to bottom. "What mark is that vertical bracing?" "hang on I'll get a ladder and have a look". "No – Look down there it is"!
6. Channels and angels do not always conform but as long as it is clear which way they toe and which side is up they should be installed correctly.
7. Issue fab details to site so that, if in doubt, a check against the drawing can be made.
8. What ever system you adopt as long as you educated the erectors then it should help to reduce mistakes. Errors cost money, increase time on site and can mean working at height to correct them – Things which are always nice to avoid.

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