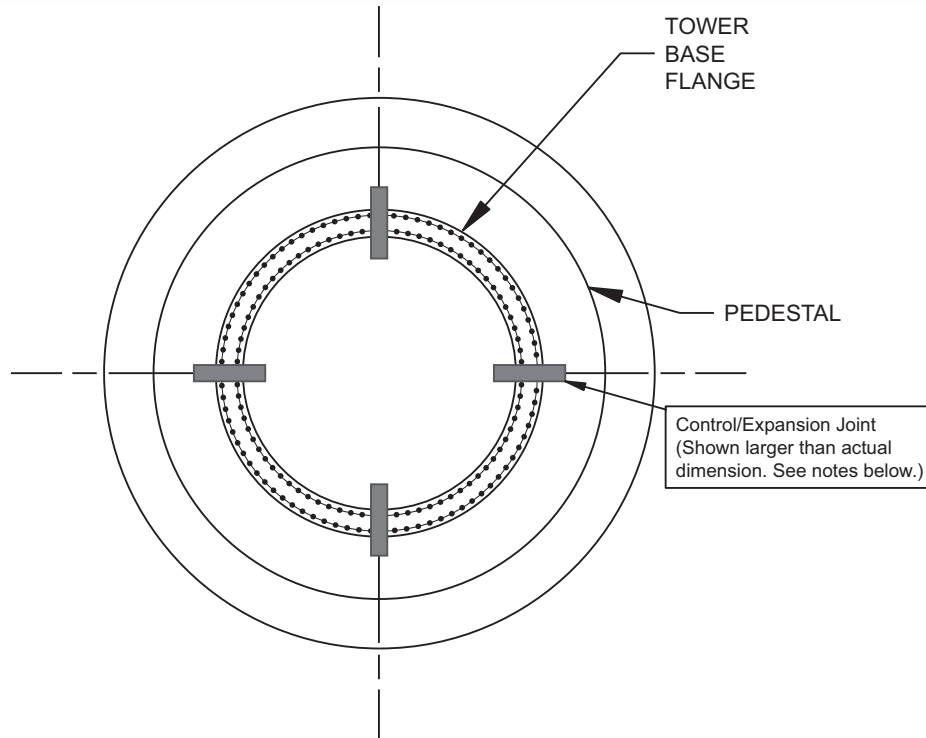




# Technical Bulletin 142

## Windfarm Turbine Foundation

### Control/Expansion Joint Recommendations



Control/expansion joints will serve to break up the grout pours into smaller sections, thereby reducing the probability that the grout will crack. It will also make the installation easier.

1. Install a minimum of (3) three control/expansion joints at full depth evenly spaced (i.e., 4 joints would be 90 degrees apart, as shown above) across the short dimension of the grout ring.
2. Control/expansion joints shall be located where they do not bridge or interfere with shim placement.
3. Control/expansion joints should be made from 1/2 in. to 1 in. (12 mm to 25 mm) thick closed-cell neoprene foam rubber or other material that is non-reactive with epoxy grout.
4. Control/expansion joints should be installed prior to setting the tower base and secured in place with silicone caulking material.
5. Control/expansion joints shall be filled with a weather resistant and UV resistant sealant flush or higher than the top of the grout to prevent water from infiltrating the joint.



Submit the technical data sheets for the control/expansion joint material and sealant to project engineer for approval prior to installing the material.

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