# Technical Bulletin 202

formerly 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 1/4 in. to 1/2 in. (7 mm to 12 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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