

## Concrete Vibrating Tips:

Radius of Action - The most important bit of information needed for complete consolidation.

Radius of Action is the distance from the centre of the vibrator head to the outer edge , where complete consolidation take place. Complete consolidation is necessary for Low Slump Concrete with close meshed reinforcement bars, high strength concrete and architectural concrete. Radius of Action can be twice the listed values when Slump is high or Superplasticizers are used.

It is Important these values are used only as a general guide. Specifications are subject to change.

<u>Head Size</u>	<u>Radius of Action</u>	<u>Compaction Rate (cu. yds/hr)</u>
3/4"	3"	1 - 3
1"	4"	2 - 4
1-1/2"	6"	5 - 8
1-3/4"	9"	8 - 16
2"	11"	12 - 20

For Quality Concrete, Oztec Suggests:

1. Select the largest vibrator suitable for the job.
2. Insert the vibrator vertically, allowing it to sink to the desired depth by its own weight. Forcing it may lock it between rebars.
3. Hold the vibrator 5 to 15 seconds then slowly lift vibrator up, staying behind the trapped air's upward movement. Allow about 15 seconds for each 2 foot distance to avoid re-trapping air.
4. A slight up and down movement will close the hole formed by the vibrator.
5. Withdraw the vibrator quickly when near the top to prevent churning air into the top layer.
6. Move vibrator and re-insert at a distance 1 ½ times the Radius of Action...As shown in the diagrams.

7. Allow vibrator to pass 3 to 6 inches into the preceding layer to ensure knitting the two layers together, insuring a good bond and preventing "lift lines" when forms are removed.

8. Try to limit pours to 2 to 3 feet high, so air has less resistance to escape.

9. Do Not use vibrator to move concrete laterally...it causes segregation (use a shovel). Place vibrator in the center of mounds to knock them down.