

Consistency	Slump measurement in mm	Vibration time in seconds
Stiff	60 (± 30)	15-25
Plastic	90 (± 30)	10-20
Flowing	120 (± 30)	5-15
Easy flowing	150 (± 30)	5-10

Figure 13.11 “Handbook for concreteworkers”

Vibrator size d mm	Minimum thickness of wall mm
20	120
30	180
40	240
50	300
60	360

Figure 13.14 “Handbook for concreteworkers”

Vibrator type	Stick vibrator	Beam vibrator	Plate vibrator	Formwork vibrator
Usage				
Buildingsite				
Columns	***	O	O	**
Walls	***	O	O	***
Beams	***	O	O	**
Deck < 250mm	O	***	*	*
Deck > 250mm	**	**	*	*
Floors	O	***	**	O
Roads and squares	O	***	**	O

Legend:

- O Not useable
- * Less useable
- ** Useable
- *** Very useable

Figure 13.17 “Handbook for concreteworkers”