

# DIN EN 14049:2006-01 (E)

## Irrigation techniques - Water application intensity - Calculation principles and measurement methods

---

<b>Contents</b>		<b>Page</b>
<b>1</b>	<b>Scope .....</b>	<b>4</b>
<b>2</b>	<b>Normative references .....</b>	<b>4</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>5</b>
<b>4</b>	<b>Calculation methods related to water application intensity .....</b>	<b>6</b>
4.1	Depth of water application .....	6
4.2	Water application intensity (WAI) .....	6
4.2.1	General .....	6
4.2.2	Instantaneous water application intensity .....	6
4.2.3	Average water application intensity .....	7
4.2.4	Average WAI for a solid set of stationary sprinklers .....	7
4.2.5	Average WAI for full circle sprinklers on moving systems .....	8
4.2.6	Average WAI for part circle sprinkler on moving systems .....	12
<b>5</b>	<b>Measurement methods for water application intensity .....</b>	<b>13</b>
5.1	General .....	13
5.2	Average water application intensity .....	13
5.2.1	General .....	13
5.2.2	Case of fixed sprinklers .....	13
5.2.3	Case of moving machines .....	15
5.2.4	Case of sprinklers attached to a stationary machine .....	16
5.3	Local "instantaneous" water application intensity .....	17
5.3.1	General .....	17
5.3.2	Measurement method .....	17
5.3.3	Interpretation .....	17