

# DIN EN 13948:2008-01 (E)

## Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Determination of resistance to root penetration

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
Introduction .....		4
1	Scope .....	5
2	Normative references .....	5
3	Terms and definitions .....	5
4	Principle .....	5
5	Apparatus .....	6
5.1	Greenhouse .....	6
5.2	Test and control containers .....	6
5.3	Moisture layer .....	7
5.4	Pressure distribution layer .....	7
5.5	Growing substrate .....	7
5.6	Fertiliser .....	8
5.6.1	Basic fertilisers (to be mixed with the growing substrate) .....	8
5.6.2	Slow working coated fertiliser (to be used during the testing period) .....	8
5.7	Tensiometer .....	8
5.8	Test plants .....	8
5.9	Water quality for irrigation .....	8
6	Sampling of test specimens .....	9
7	Procedure .....	9
7.1	Preparation of growing substrate .....	9
7.2	Preparation and installation of the test containers .....	10
7.3	Preparation and installation of the control containers .....	12
7.4	Care of the plants .....	12
8	Expression of results .....	13
8.1	General .....	13
8.2	During the test .....	13
8.3	At the end of the test .....	13
9	Precision of test method .....	14
10	Test report .....	14