DIN EN 17152-1:2023-06 (E)

Plastics piping systems for non-pressure underground conveyance and storage of non-potable water - Boxes used for infiltration, attenuation and storage systems - Part 1: Specifications for storm water boxes made of PP and PVC-U (includes Corrigendum :2020)

Contents

Page

European foreword ... 3

Introduction ... 4

1 Scope ... 5

2 Normative references ... 5

3 Terms and definitions ... 6

4 Symbols and abbreviations ... 8

5 Material ... 8
5.1 General ... 8
5.2 Polypropylene (PP) material ... 8
5.2.1 General ... 8
5.2.2 Polypropylene (PP) virgin material ... 8
5.2.3 Polypropylene (PP) modified material ... 9
5.2.4 Polypropylene (PP) non-virgin material ... 9
5.3 Unplasticized polyvinylchloride (PVC-U) material ... 9
5.3.1 General ... 9
5.3.2 Unplasticized polyvinylchloride (PVC-U) virgin material ... 9
5.3.3 Unplasticized polyvinylchloride (PVC-U) non-virgin material ... 9
5.4 Box and integral components material characteristics ... 9

6 General characteristics ... 10
6.1 Appearance ... 10
6.2 Colour ... 10

7 Geometrical characteristics ... 11
7.1 Dimensions ... 11
7.2 Weight ... 11
7.3 〖AC〗 Porosity 〖AC〗 ... 11

8 Mechanical characteristics of boxes and integral components ... 11

9 Physical characteristics of injection moulded boxes ... 13

10 Marking ... 13
10.1 General ... 13
10.2 Minimum required marking of infiltration, storage and attenuation boxes ... 14

Annex A (normative) Characteristics of materials used in boxes and integral components for PP and PVC-U ... 15

A.1 Material characteristics ... 15

A.2 Agreed specification between the manufacturer and the supplier of PP and PVC-U materials ... 16

Annex B (normative) Test method to check the sensitivity to non-rigid loading ... 18

B.1 General ... 18

B.2 Apparatus and test setup ... 18

Bibliography ... 20