DIN EN 12200-1:2016-10 (E)

Plastics rainwater piping systems for above ground external use - Unplasticized poly(vinyl chloride) (PVC-U) - Part 1: Specifications for pipes, fittings and the system

Contents

Page

European foreword 4

1 Scope 6

2 Normative references 6

3 Terms, definitions, symbols and abbreviations 7
3.1 Terms and definitions 7
3.2 Definitions of multilayer pipes 8
3.3 Material terms and definitions 9
3.4 Definitions for brackets 9
3.5 Symbols 10
3.6 Abbreviations 10

4 Material 10
4.1 PVC-U material 10
4.2 Other materials 11
4.3 Utilization of non-virgin material 11
4.4 Sealing ring retaining means 11
4.5 Metallic brackets 11

5 General characteristics - appearance 11

6 Geometrical characteristics 11
6.1 General 11
6.2 Dimensions of pipes 11
6.2.1 Diameters of circular pipes 11
6.2.2 Outside dimensions and tolerances of non-circular pipes 12
6.2.3 Effective length of pipes 13
6.2.4 Wall thicknesses of pipes and their sockets 13
6.2.5 Dimensions of sockets 15
6.3 Dimensions of fittings 15
6.3.1 Nominal size(s) 15
6.3.2 Wall thicknesses of fittings 15
6.3.3 Angles 15
6.3.4 Design lengths (Zd) 15
6.4 Diameters and lengths of sockets and spigots 15
6.4.1 Ring seal sockets and spigots 15
6.4.2 Solvent cement and unsealed sockets and spigots 17
6.4.3 Non-circular sockets and spigots 19
6.4.4 Spigot sleeves 19
6.5 Types of fittings 19
6.6 Brackets 22

7 Mechanical characteristics 22
7.1 Pipes 22
7.2 Mechanical characteristics of anchor brackets 24

8 Physical characteristics 25
8.1 Physical characteristics of pipes 25
8.2 Physical characteristics of fittings 26

9 Fitness for purpose of joint and system 26
10 Sealing rings 27
11 Adhesives 27
12 Marking 27
12.1 General 27
12.2 Minimum required marking of pipes 28
12.3 Minimum required marking of fittings 28
12.4 Minimum required marking of brackets 29
Annex A (informative) Utilization of non-virgin material 30
A.1 Own reprocessed material 30
A.2 External reprocessed and recycled material with agreed specification 30
A.3 External reprocessed and recycled material not covered by an agreed specification 31
Annex B (informative) Survey of possible use of reprocessed and recycled material 33
Bibliography 34