

ISO 13272:2026-07 (E)

**Plastics piping systems for non-pressure underground drains and sewers -
Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP), polypropylene with
mineral modifiers (PP-MD) and polyethylene (PE) - Specifications for manholes and
inspection chambers in traffic areas and underground installations**

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviated terms	3
3.1 Terms and definitions	3
3.2 Abbreviated terms	7
4 Material	7
4.1 General	7
4.2 Compound/formulation for bases	7
4.3 Compound/formulation for riser	8
4.4 Compound/formulation for cones	8
4.5 Compound/formulation for telescopic adaptors	8
4.6 Use of non-virgin materials	9
4.7 Sealing ring retaining components	9
5 General characteristics	9
5.1 Appearance	9
5.2 Colour	9
6 Geometrical characteristics	9
6.1 Dimensions	9
6.1.1 General	9
6.1.2 Socket and spigot diameters, wall thicknesses, length of engagement (A _{min}) and length of horizontal spigot	10
6.2 Additional requirements	10
6.2.1 Manhole and inspection chamber tops	10
6.2.2 Manholes steps and ladders	10
6.2.3 General	10
6.2.4 Steps	10
6.2.5 Permanently fixed ladders	11
6.2.6 Fixing provisions for ladders	11
7 Mechanical characteristics	11
8 Physical characteristics	12
9 Performance requirements	13
9.1 General performance	13
9.2 Characterization of rotationally moulded product submitted for performance testing	14
10 Sealing rings	14

11	Marking of inspection chambers and manholes and additional documentation	14
11.1	Marking of bases	14
11.2	Marking of components other than bases	15
11.3	Additional documentation	16
Annex A (normative) Test method for durability		17
Annex B (normative) Structural integrity of base		19
Annex C (normative) Test method for the impact resistance of bases		20
Annex D (normative) Utilization of non-virgin material		21
Bibliography		23