INTERNATIONAL STANDARD ISO 2045

Single sockets for unplasticized polyvinyl chloride (PVC) pressure pipes with elastic sealing ring type joints — Minimum depths of engagement

First edition — 1973-04-01

UDC 621.643.4 : 678.743

Ref. No. ISO 2045-1973 (E)

Descriptors : pipes (tubes), plastic pipes, pressure pipes, pipe joints, sockets, dimensions.

ISO 2045-1973 (E)

Price based on 1 page

Single sockets for unplasticized polyvinyl chloride (PVC) pressure pipes with elastic sealing ring type joints — Minimum depths of engagement

1 SCOPE

This International Standard specifies the minimum depths of engagement for single sockets for unplasticized PVC pressure pipes with elastic sealing ring type joints.

2 FIELD OF APPLICATION

The minimum depths of engagement are applicable to pipes up to 12 m length for drinking water supply and for industrial purposes, for installation below or above the ground, in situations where changes in length will occur due to temperature influence.

3 REFERENCE

ISO/R 161, *Pipes of plastics materials for the transport of fluids (Outside diameters and nominal pressures) — Part I : Metric series.*

4 CALCULATION

The minimum depth of engagement m is calculated from the formulae

$$m \geqslant 50 \text{ mm} + 0{,}22\, d_e \text{ up to } d_e = 280 \text{ mm}$$

$$m \geqslant 70 \text{ mm} + 0{,}15\, d_e \text{ above } d_e = 280 \text{ mm}$$

where d_e is the nominal outside diameter of the pipe, in millimetres.

The value of m takes account of thermal expansion and contraction, contraction due to transversal expansion, possible bending and a safety factor.

5 MINIMUM DEPTHS OF ENGAGEMENT

Minimum depths of engagement (see figure) shall be as given in the table.
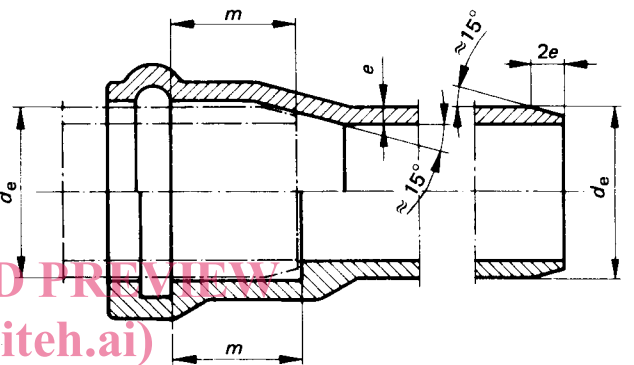
Dimensions in millimetres

Nominal outside diameter of pipe[1] d_e	Minimum depth of engagement m
63	65
75	68
90	71
110	75
125	78
140	81
160	86
180	90
200	94
225	100
250	106
280	112
315	118
355	124
400	130

1) In accordance with ISO/R 161.