
**Plastics piping systems for hot and cold
water installations — Chlorinated
poly(vinyl chloride) (PVC-C) —**

**Part 5:
Fitness for purpose of the system**

AMENDMENT 1

*Systèmes de canalisations en plastique pour les installations d'eau
chaude et froide — Poly(chlorure de vinyle) chloré (PVC-C) —*

Partie 5: Aptitude à l'emploi du système

AMENDEMENT 1



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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
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Foreword

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Amendment 1 to ISO 15877-5:2009 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 155, *Plastics piping systems and ducting systems*, in collaboration with ISO Technical Committee TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 2, *Plastics pipes and fittings for water supplies*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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PVC-C Type I piping systems for low-temperature heating applications have been used successfully in some countries for more than 30 years. Therefore, this amendment proposes to add to ISO 15877-5, Class 4 as defined in ISO 10508, for the conditions of service used in these countries (4 bar and 6 bar).

Page 4, 4.2.2, Table 3

Delete the existing Table 3, and insert:

Table 3 — Derivation of hydrostatic test pressure of solvent cement joints for PVC-C Type I

	Class 1	Class 2	Class 4
Maximum design temperature $T_{\max}$ °C	80	80	70
Design stress in the fitting material σ_{DF} MPa	3,17	3,08	2,51
Test temperature T_{Test} °C	80	80	80
Test duration t h	≥ 3 000	≥ 3 000	≥ 3 000
Hydrostatic stress of the fitting material σ_F MPa	6,14	6,14	6,14
Test pressure p_J in bars for a design pressure, p_D , of			
4 bar	7,7	8,0	9,8
6 bar	11,6	12,0	14,7
8 bar	15,5	15,9	Not applicable
10 bar	19,4	19,9	Not applicable
Number of test pieces	3	3	3

Delete the existing Table 5, and insert:

Table 5 — Derivation of hydrostatic test pressure of mechanical joints for PVC-C Type I

	Class 1	Class 2	Class 4
Maximum design temperature $T_{\max}$ °C	80	80	70
Design stress in the pipe material σ_{DF} MPa	4,38	4,16	4,46
Test temperature T_{Test} °C	80	80	80
Test duration t h	≥ 3 000	≥ 3 000	≥ 3 000
Hydrostatic stress of the pipe material σ_F MPa	8,25	8,25	8,25
Test pressure p_J in bars for a design pressure, p_D , of			
4 bar	7,5	7,9	7,4
6 bar	11,3	11,9	11,1
8 bar	15,1	15,9	Not applicable
10 bar	18,8	19,8	Not applicable
Number of test pieces	3	3	3