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

**Part 2:  
Pipes**

**AMENDMENT 1**

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

*Partie 2: Tubes*

*AMENDEMENT 1*



Reference number  
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## Foreword

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO 15877-2:2009 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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## Part 2: Pipes

### AMENDMENT 1

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 15877-2, Class 4 as defined in ISO 10508, for the conditions of service used in these countries (4 bar and 6 bar).

Page 6, 6.1.2, Table 1

Delete the existing Table 1, and insert:

**Table 1 —  $S_{\text{calc,max}}$ -values for PVC-C Type I**

Design pressure $p_D$ bar <sup>a</sup>	Application class		
	Class 1	Class 2	Class 4
	$S_{\text{calc,max}}$ -values <sup>b</sup>		
4	10,0 <sup>c</sup>	10,0 <sup>c</sup>	10,0 <sup>c</sup>
6	7,3	7,1	7,4
8	5,5	4,8	Not applicable
10	4,4	4,2	Not applicable

NOTE The derivation of  $S_{\text{calc,max}}$  is provided in Annex A. The method described takes account of the properties of PVC-C under the service conditions for the classes given in Table 1 of ISO 15877-1:2009.

<sup>a</sup> 1 bar = 0,1 MPa = 0,1 N/mm<sup>2</sup> = 10<sup>5</sup> N/m<sup>2</sup>.

<sup>b</sup> The values are rounded to the first decimal place.

<sup>c</sup> The 20 °C, 10 bar, 50 years, cold water requirement, being higher, determines this value (see Clause 4 of ISO 15877-1:2009).

Page 13, A.2, Table A.2

Delete the existing Table A.2, and insert:

**Table A.2 — Design stress for PVC-C Type I**

Application class	Design stress $\sigma_D^a$ MPa
1	4,38
2	4,16
4	4,46
20 °C/50 years	10,0

<sup>a</sup> Values given are rounded to the second decimal place.

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