

---

---

**Industrial automation systems and  
integration — Product data representation  
and exchange —**

Part 510:

**Application interpreted construct:  
Geometrically bounded wireframe**

*Systèmes d'automatisation industrielle et intégration — Représentation  
et échange de données de produits —*

*Partie 510: Construction interprétée d'application: Cadre en fil  
métallique délimité géométriquement*



**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2000

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 734 10 79  
E-mail [copyright@iso.ch](mailto:copyright@iso.ch)  
Web [www.iso.ch](http://www.iso.ch)

Printed in Switzerland

<b>Contents</b>	<b>Page</b>
1 Scope .....	1
2 Normative references .....	1
3 Definitions and abbreviations .....	2
3.1 Terms defined in ISO 10303-1 .....	2
3.2 Terms defined in ISO 10303-202 .....	3
3.3 Abbreviations .....	3
4 EXPRESS short listing .....	3
4.1 Introduction .....	4
4.2 Fundamental concepts and assumptions .....	4
4.3 aic_geometrically_bounded_wireframe entity definition: geometrically_bounded_wireframe_shape_representation .....	5
4.4 aic_geometrically_bounded_wireframe function definitions .....	7
4.4.1 valid_geometrically_bounded_wf_curve .....	7
4.4.2 valid_geometrically_bounded_wf_point .....	8
Annex A (normative) Short names of entities .....	10
Annex B (normative) Information object registration .....	11
B.1 Document identification .....	11
B.2 Schema identification .....	11
Annex C (informative) EXPRESS-G diagrams .....	12
Annex D (informative) Computer interpretable listings .....	19
Index .....	20