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**CSA C116:18**  
National Standard of Canada



# Fibre-reinforced polymer composite crossarms



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**CSA C116:18**  
**Fibre-reinforced polymer composite**  
**crossarms**



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# Technical Committee on Overhead Systems

<b>J.A. McFadgen</b>	Nova Scotia Power Inc., Halifax, Nova Scotia <i>Category: Electricity Distribution Interest</i>	<i>Chair</i>
<b>S. Cumming</b>	Sonideft Inc., Middle Sackville, Nova Scotia <i>Category: Carriers</i>	<i>Vice-Chair</i>
<b>I. Albanese</b>	TELUS, Burnaby, British Columbia	<i>Non-voting</i>
<b>J.M. Asselin</b>	Mississauga, Ontario	<i>Non-voting</i>
<b>A. Balasoiu</b>	Hydro-Québec, Distribution, Montréal, Québec <i>Category: Electricity Distribution Interest</i>	
<b>M.D. Bell</b>	Hydro One Networks Inc., Toronto, Ontario <i>Category: Electricity Distribution Interest</i>	
<b>E. Chan</b>	Ontario Ministry of Labour, Toronto, Ontario	<i>Non-voting</i>
<b>F. Dennert</b>	British Columbia Hydro, Burnaby, British Columbia <i>Category: Electricity Distribution Interest</i>	
<b>M. Dziurda</b>	Thunder Bay Hydro, Thunder Bay, Ontario	<i>Non-voting</i>
<b>P. Falzon</b>	Electrical Safety Authority, Mississauga, Ontario <i>Category: General Interest</i>	
<b>S. Fawcett</b>	Bell Canada, Newmarket, Ontario	<i>Non-voting</i>
<b>L. Gallagher</b>	Utilities Standards Forum, Guelph, Ontario	<i>Non-voting</i>

<b>T. Gardiner</b>	Newfoundland and Labrador Hydro, St. John's, Newfoundland and Labrador	<i>Non-voting</i>
<b>C.L. Gartner</b>	SaskTel, Regina, Saskatchewan <i>Category: Carriers</i>	
<b>E. Ghannoum</b>	Montréal, Québec <i>Category: General Interest</i>	
<b>I. Hathout</b>	Hydro One Networks Inc., Toronto, Ontario <i>Category: Electricity Transmission Interest</i>	
<b>M.F. Ishac</b>	SNC-Lavalin, Toronto, Ontario <i>Category: General Interest</i>	
<b>P.L. Jarrett</b>	Environment and Climate Change Canada Toronto, Ontario <i>Category: General Interest</i>	
<b>M.A. Kadam</b>	Bell Canada, Toronto, Ontario <i>Category: Carriers</i>	
<b>C. Kafel</b>	Alectra Utilities Corporation, Mississauga, Ontario	<i>Non-voting</i>
<b>Z.J. Kieloch</b>	Manitoba Hydro, Winnipeg, Manitoba <i>Category: Electricity Transmission Interest</i>	
<b>P.G. Krotky</b>	Oakley Engineering, Mississauga, Ontario <i>Category: General Interest</i>	
<b>B. Lacoursiere</b>	TAPP, Inc., Calgary, Alberta <i>Category: General Interest</i>	
<b>M. Lu</b>	British Columbia Hydro, Burnaby, British Columbia	<i>Non-voting</i>
<b>R. MacKenzie</b>	NB Power, Rothesay, New Brunswick	<i>Non-voting</i>

<b>I. Mathurin</b>	Hydro-Québec, Distribution, Montréal, Québec	<i>Non-voting</i>
<b>M.B. Mehagan</b>	Over Under Engineering Services Ltd., Guelph, Ontario	<i>Non-voting</i>
<b>R.J. Morris</b>	Green Quill Climate Services Inc., Aurora, Ontario	<i>Non-voting</i>
<b>M.R. Murphy</b>	Newfoundland Power Inc., St. John's, Newfoundland and Labrador <i>Category: Electricity Transmission Interest</i>	
<b>M. O'Neil</b>	Cogeco Connexion, Niagara Falls, Ontario <i>Category: Carriers</i>	
<b>M. O'Reilly</b>	Hydro One, Brockville, Ontario	<i>Non-voting</i>
<b>Y.O. Onifade</b>	BC Hydro, Burnaby, British Columbia <i>Category: Electricity Transmission Interest</i>	
<b>C.I. Orde</b>	Utilitech Consulting Inc., Nanton, Alberta	<i>Non-voting</i>
<b>D.S. Parikh</b>	Hydro One Networks Inc., Toronto, Ontario	<i>Non-voting</i>
<b>M. Peckover</b>	Manitoba Hydro, Brandon, Manitoba <i>Category: Electricity Distribution Interest</i>	
<b>R. Renwick</b>	AltaLink Management Ltd., Calgary, Alberta <i>Category: Electricity Transmission Interest</i>	
<b>P.J. Rivest</b>	Hydro-Quebec, Montréal, Québec <i>Category: Electricity Transmission Interest</i>	
<b>T.G. Shmyr</b>	EPCOR Distribution and Transmission, Edmonton, Alberta <i>Category: Electricity Distribution Interest</i>	

---

<b>H. Taki</b>	Toronto Hydro, Toronto, Ontario	<i>Non-voting</i>
<b>J. Toth</b>	Enginomix Consulting Inc., Vancouver, British Columbia	<i>Non-voting</i>
<b>S.M. Turcot</b>	Bell Canada, Montréal, Québec <i>Category: Carriers</i>	
<b>T. Turk</b>	Toronto Hydro-Electric System LTD, Toronto, Ontario <i>Category: Electricity Distribution Interest</i>	
<b>W. van Halderen</b>	Canadian Electricity Association (CEA), Ottawa, Ontario	<i>Non-voting</i>
<b>K. van Popta</b>	FortisAlberta Inc., Sherwood Park, Alberta	<i>Non-voting</i>
<b>T. Walker</b>	TELUS, Calgary, Alberta <i>Category: Carriers</i>	
<b>E.H. Wiebe</b>	Innovative Solutions Engineering Inc., Winnipeg, Manitoba <i>Category: General Interest</i>	
<b>R.D. Williams</b>	Hydro Ottawa Limited, Ottawa, Ontario	<i>Non-voting</i>
<b>S. Attarde</b>	CSA Group, Toronto, Ontario	<i>Project Manager</i>

# ***Subcommittee on Fibre-reinforced Polymer Composite Crossarms***

<b>J. Toth</b>	Enginomix Consulting Inc., Vancouver, British Columbia	<i>Chair</i>
<b>C. Patterson</b>	AltaLink Management Ltd., Calgary, Alberta	<i>Vice-Chair</i>
<b>J. Arlund</b>	Maclean Power Systems, Fort Mill, South Carolina, USA	
<b>M. Bennett</b>	Maclean Power Systems, Chateauguay, Québec	
<b>L. Bereswill</b>	Hubbell Power Systems, Inc., Centralia, Missouri, USA	
<b>T.J. Bunka</b>	SaskPower, Regina, Saskatchewan	
<b>C. Carlisle</b>	Aluma-Form, Inc., Memphis, Tennessee, USA	
<b>F. Chan</b>	CEATI International Inc., Montréal, Québec	
<b>R. Davies</b>	Hydro One Networks Inc., Toronto, Ontario	
<b>G. Fecht</b>	RS Technologies, Tilbury, Ontario	
<b>B. Hornberg</b>	Geotek LLC, Stewartville, Minnesota, USA	
<b>J. Labrecque</b>	Hydro-Quebec (IREQ), Varenes, Québec	
<b>S. Langlois</b>	Université de Sherbrooke, Sherbrooke, Québec	

---

<b>S.D. Lightfoot</b>	CEATI International Inc., Montréal, Québec	
<b>A. Maitland</b>	Structural Composite Technologies Ltd., Winnipeg, Manitoba	
<b>D. Mastrocola</b>	Hydro-Québec-Distribution, Montréal, Québec	
<b>H. Navis</b>	FortisAlberta, Airdrie, Alberta	
<b>D.R. Orr</b>	Manitoba Hydro, Winnipeg, Manitoba	
<b>C. Recto</b>	EPCOR Distribution and Transmission, Edmonton, Alberta	
<b>M. Tarabain</b>	Hydro One Networks Inc., Barrie, Ontario	
<b>D.J. Thompson</b>	American Electric Power, Columbus, Ohio, USA	
<b>S. van Hoek-Patterson</b>	RS Technologies, Calgary, Alberta	
<b>R.S. Ward</b>	Aluma-Form, Inc., Memphis, Tennessee, USA	
<b>M. Wyndham</b>	Hydro Ottawa Limited, Ottawa, Ontario	
<b>S. Attarde</b>	CSA Group, Toronto, Ontario	<i>Project Manager</i>

# Preface

This is the first edition of CSA C116, *Fibre-reinforced polymer composite crossarms*. This Standard was developed at the request of industry stakeholders that perceived the need for a Canadian standard on fibre-reinforced polymer composite crossarms.

This Standard was prepared by the Subcommittee on Fibre-reinforced Polymer Composite Crossarms, under the jurisdiction of the Technical Committee on Overhead Systems and the Strategic Steering Committee on Power Engineering and EMC, and has been formally approved by the Technical Committee.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

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  - b) *relevant clause, table, and/or figure number;*
  - c) *wording of the proposed change; and*
  - d) *rationale for the change.*

# CSA C116:18

## ***Fibre-reinforced polymer composite crossarms***

### **1 Scope**

#### **1.1**

This Standard sets out the requirements for fibre-reinforced polymer (FRP) composite crossarms for use on overhead electrical systems.

#### **1.2**

FRP composite crossarms are used with connecting hardware and are part of a structure supporting overhead conductors and insulators that includes poles, guys, and anchors. This Standard specifies requirements for the FRP composite crossarm and does not address the overall structure as a system.

**Note:** *An optional classification system is described in Table A.1 and is provided as an informative reference for users of the Standard.*

#### **1.3**

The values given in SI units are units of record for the purposes of this Standard. The values given in parentheses are for information and comparison only.

**Note:** *In the utilities industry, both metric and imperial units are found in common practice and so are both used in this Standard.*

#### **1.4**

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

### **2 Reference publications**

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**Note:** *See also Annex B.*