

Bulletin 2-7-29
Approval of electrical equipment
Rules 2-022 and 2-024

Issued May 2012
Supersedes Bulletin 2-7-28

Scope

- (1) Approval requirements
 - (a) Recognized certification marks
 - (b) Recognized field evaluation marks
 - (c) Recognized component marks
- (2) Approval of devices on class 2 circuits

(1) Approval requirements

The Ontario Electrical Safety Code and Ontario Regulation 438/07 recognize certification organizations accredited by the Standards Council of Canada to approve electrical equipment (Rule 2-024). Only equipment bearing one of the marks or labels shown in the following tables is approved.

To meet the requirements of the Ontario Electrical Safety Code, equipment must be approved to Canadian standards. This is signified by the “C” outside the Curtis Strauss, Entela, ETL, FM Approvals, IAPMO, IWH, LC, MET, Nemko, OTL, QAI, QPS, UL, UPC and USPC marks. The “C and US” shown outside the CSA, ETL, LC, NSF, TUV America, TUV Rheinland and UL marks, indicates the equipment with those marks is also compliant with United States standards.

Underwriters Laboratories mark without the “c” at the eight o’clock position, indicates the equipment is compliant with United States standards.


























, CE mark, is manufacturer self-declaration mark and is not recognized in Canada.

Note 1

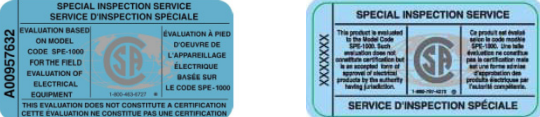


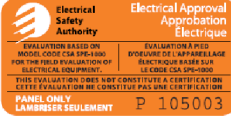
For the most updated list of recognized certification and field evaluation marks and certification or field evaluation agency info, visit the Electrical Product Safety section of www.esasafe.com.





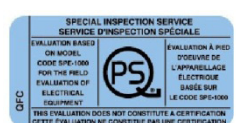



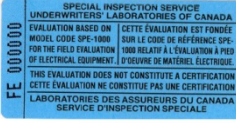
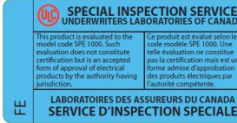
(a) Recognized certification marks

Certification Body	Marking		
Canadian Standards Association (CSA)			
Curtis Strauss			
FM Approvals			
IAPMO			
Intertek Testing Services			
Labtest Certification (LC)			
Met Laboratories (MET)			
Nemko			
NSF International			
OMNI Environmental Services Inc			
Quality Auditing Institute			

<p>QPS</p>	
<p>TUV America</p>	
<p>TUV Rheinland</p>	
<p>Underwriters' Laboratories of Canada (ULC)</p>	
<p>Underwriters' Laboratories Inc.</p>	

(b) Recognized field evaluation marks




Inspection Body	Marking
<p>Canadian Standards Association (CSA)</p>	
<p>Electrical Safety Authority (ESA)</p>	 <p style="text-align: right;">See Note 2</p>
<p>Intertek Testing Services</p>	 <p style="text-align: right;">See Note 2</p>
<p>Labtest Certification (LC)</p>	

<p>MET Laboratories</p>		
<p>Nemko</p>		
<p>Quality Auditing Institute</p>		
<p>QPS</p>		 <p style="text-align: center;">See Note 2</p>
<p>TUV America</p>		
<p>TUV Rheinland</p>		
<p>Underwriters Laboratories of Canada (ULC)</p>		

Note 2

“PANEL ONLY” label identifies that the panel has been evaluated to the SPE-1000. It does not cover equipment that is added or connected to the panel.

(c) Recognized component marks

Certification Body	Marking
<p>Canadian Standards Association (CSA)</p>	
<p>Underwriters Laboratories Inc. (UL)</p>	 

Note 3

Electrical components bearing these marks may have restrictions on their performance or may be incomplete in construction, and are intended to be used as part of a larger approved product or system. The recognized component marks are found on a wide range of products, including some switches, power supplies, printed wiring boards, some kinds of industrial control equipment and thousands of other products.

(2) Approval of devices on class 2 circuits

Electrical equipment does not require approval if it is connected to the load side of an approved class 2 power supply whose power output does not exceed 100 V•A and is operating at less than 42.4 V peak or dc with the exception of:

- (i) luminaires, decorative lighting strings, signs or displays with incandescent or halogen lamps;
- (ii) luminaries with Light Emitting Diode (LED) lamps;
- (iii) luminaires, decorative lighting strings, signs or displays incorporating a ballast with operating voltages greater than 42.4 volts peak or 42.4 DC;
- (iv) electromedical equipment;
- (v) equipment for hazardous locations as defined under OESC Sections 18 and 20 of the Code; or
- (vi) equipment that incorporates heating elements.

Appendix B note intended for item (ii) does not require decorative light strings, signs or displays with LED lamps to be approved if connected to a class 2 power supply.