Certificate of Compliance

Certificate:	80044807	**Master Contract:**	300217
Project:	80286442	**Date Issued:**	2026-02-06
Issued to:	**TerraGen Environmental Group Inc.** **120 Parsons Road** **Alliston, Ontario L9R 1E9** **Canada** **Attention:** Liam Dowdall	**Issued by:**	*Michael Hoffnagle* Michael Hoffnagle

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

PRODUCTS

Class 5313 02 POWER SUPPLIES - PHOTOVOLTAICS - PV Racking
Class 5313 82 POWER SUPPLIES - PHOTOVOLTAICS - PV Racking and clamping systems-Certified to US Standards

Racking systems for bonding and grounding of photovoltaic modules.

Model(s)
TGP, TGT, TGR

The systems listed are designed to provide bonding/grounding for PV modules mounted on the racking system. The modules are bonded to the racking system with anodization-piercing top-down clamps. Uses a certified grounding device for grounding system. System consisting of the following components: Base Rail, Base Rail Splice, Tilt Triangle Assembly, Top Rail, Bonding Integrated Splice, T-Bolt Assembly, Cross Adapter, Mid-Clamp, Grounding Clip and End-Clamp.

© 2026 CSA Group. All rights reserved.

Racking system has been evaluated for bonding/grounding and fire ratings. Systems are not mechanical load rated.

Class A with Type 1, 2, 29, and 30 at low slope. Tested at 5" interstitial gap which allows installation at any stand-off height per section 31.2.2.1 of UL1703.

The grounding of the system is intended to comply with the latest edition of the National Electrical Code, to include NEC 250 & 690 or in accordance with CSA C22.1, Safety Standard for Electrical Installations, Canadian Electrical Code, Part I. Local codes compliance is required, in addition to national codes. All grounding/bonding connections are to be torqued in accordance with the Installation Manual and the settings used during the certification testing for the current edition of the project report.

Model(s)
TXL

The systems listed are designed to provide bonding/grounding for PV modules mounted on the racking system. The modules are bonded to the racking system with anodization-piercing top-down clamps with bonding washer.. Uses a certified grounding device for grounding system. System consisting of the following components: TXL Base Rail, TXL Base Rail Splice, TXL Ballast Tray, TXL Tilt Assembly, TXL Wind Deflector and End-Clamp.

The grounding of the system is intended to comply with the latest edition of the National Electrical Code, to include NEC 250 & 690 or in accordance with CSA C22.1, Safety Standard for Electrical Installations, Canadian Electrical Code, Part I. Local codes compliance is required, in addition to national codes. All grounding/bonding connections are to be torqued in accordance with the Installation Manual and the settings used during the certification testing for the current edition of the project report.

Racking system has been evaluated for bonding/grounding, fire ratings, and mechanical load rated.

Class A with Type 1, 2, 29, and 30 at low slope. Tested at 5" interstitial gap which allows installation at any stand-off height per section 31.2.2.1 of UL1703.

TXL UL 2703/TIL A-40 Mechanical Load ratings:

Module Area up to 27.75 sq ft for similar construction of Type 1 fire rated modules	
Downward Design Load (lb/ft²)	16.8
Upward Design Load (lb/ft²)	16.8
Down-Slope Load (lb/ft²)	5.0

Module Area up to 27.77 sq ft for similar construction of Type 29 fire rated modules	
Downward Design Load (lb/ft²)	16.8
Upward Design Load (lb/ft²)	16.8
Down-Slope Load (lb/ft²)	5.0

Conditions of Acceptability:

Installation is subject to acceptance of the local inspection authorities having jurisdiction. The certification of these products relates only to

© 2026 CSA Group. All rights reserved.

the methods of installation, bonding, and grounding as outlined in the Installation Manual for each product.

APPLICABLE REQUIREMENTS

Standards Used	Description
CSA TIL No. A-40:20	PV Module and Panel Rack Mounting Systems and Accessories
ANSI/UL 2703:2015 - First Edition - Including revisions through June 11, 2025	UL Standard for Safety Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels

© 2026 CSA Group. All rights reserved.

Certificate: 80044807 **Master Contract**: 300217

Project: 80286442 **Date Issued**: 2026-02-06

Notes:

Products certified under Class(es) C531302, C531382 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

© 2026 CSA Group. All rights reserved.

Supplement to Certificate of Compliance

Certificate: 80044807 **Master Contract:** 300217

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80286442	2026-02-06	Update report 80044807 to add about 40 PV modules to PV list and installation manual updates. Assume evaluation only.
80258945	2025-08-29	Update report 80044807 to add new End Clamp and new supplier of Mid Clamp bonding washer. Evaluation and testing required, Bonding Conductor testing and Humidity test. Add 10-20 models to the PV list, assume evaluation only. Update the Marking section. Evaluation of a new optimized rail with profile change, same material and bonding methods.
80230390	2025-03-26	Update report 80044807 to add a new model to the report. Evaluation and testing are required.
80215711	2024-07-03	Update report 80044807 to add approximately 140 PV modules to PV list and installation manual updates. Assume evaluation only.
80189329	2024-02-21	Update report 80044807 with PV list additions, BOM updates, and Install Manual updates. • Add standing seam clamp to TGP for rail-less system, assume no testing required, assume Class A fire rating due to use with non-combustible materials. Using same clamps and bonding methods • Updating clamps with previous evaluation and testing • Updating Base Rail and Top Rail Splice information • PV list update, evaluation of spreadsheet, datasheets needed • Review and update of schematics for changes and corrections to previous schematics and material call outs • Updating Descriptive Report for changes and corrections to materials and dimensions called out. Assume tested, need to correct BOM only. • Assuming all is evaluation only, no testing included. Change Order will be issued for scope additions and/or if testing is needed.

© 2026 CSA Group. All rights reserved.

80162395	2023-06-21	Update report 80044807 to add fire rating Type 29, Type 30, and update PV list. Evaluation and testing are required. TGR system only. TGR is low slope, asymmetrical racking system to be tested with Type 29 modules. Testing the 40 inch layout and 5 inch gap. Using deflector.
80142482	2022-12-23	Update Report 80044807 with new mid-clamp and end-clamp design only, and alternative methods of bonding. Evaluation and testing are required.
80128720	2022-07-26	Update report 80044807 with new modified base rail splice and adding to PV list. Evaluation only, no testing. Update to add TIL No. A-40, Technical Information Letter TIL No. A-40 Covering PV Module and Panel Rack Mounting Systems and Accessories
80058820	2021-05-07	Update report 80044807 with fire ratings for TGR system only. TGR is low slope, asymmetrical racking system to be used with Type 1 and 2 modules.
80044807	2020-06-25	Certification of racking system for bonding and grounding only based on project 80009489 Project 80009489 scope: Terragen certification file transfer to CSAus from UL report E493614, Certificate # 2017-0831-E4936314. Adding models TGT and TGP Adding to PV module list Using test data from project 80009489 to add additional bonding components. Assumption: Bonding and grounding only Testing already completed from project 80009489

© 2026 CSA Group. All rights reserved.