



Transportation of Dangerous Goods Directorate
Tower C, Place de Ville
330 Sparks Street
Ottawa, Ontario
K1A 0N8

Direction générale du transport des marchandises dangereuses
Tour C, Place de Ville
330, rue Sparks
Ottawa (Ontario)
K1A 0N8



Equivalency Certificate (Approval issued by the competent authority of Canada)

Certificate No.: SU 5141 (Ren. 24)

Certificate Holder: Structural Composites Industries,
a Worthington Cylinders Company

Mode of Transport: Road, Rail, Air, Marine

Effective Date: November 23, 2018

Expiry Date: March 31, 2024

LEGEND

For the purposes of this equivalency certificate, documents referred to by an abbreviation have the following meaning:

TDG Act: *Transportation of Dangerous Goods Act, 1992*

TDG Regulations: *Transportation of Dangerous Goods Regulations*

CSA B339-08: CSA Standard B339-08, “*Cylinders, spheres, and tubes for the transportation of dangerous goods*”, March 2008, published by the Canadian Standards Association (CSA)

CSA B339-18: CSA Standard B339-18, “*Cylinders, spheres, and tubes for the transportation of dangerous goods*”, June 2018, published by the Canadian Standards Association (CSA)

CSA B340-18: CSA Standard B340-18, “*Selection and use of cylinders, spheres, tubes, and other containers for the transportation of dangerous goods, Class 2*”, June 2018, published by the Canadian Standards Association (CSA)

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CONDITIONS

This equivalency certificate authorizes Structural Composites Industries, a Worthington Cylinders Company, to sell, offer for sale, distribute or deliver in Canada, and authorizes any person to handle, offer for transport, transport, or import into Canada, by road or railway vehicle, by aircraft or by vessel, cylinders in a manner that does not comply with:

- sections 5.1.1 and 5.2 of the *TDG Regulations*,
- subparagraphs 5.10(1)(a)(ii), 5.10(1)(b)(iii), 5.10(1)(c)(ii), and 5.10(1)(d)(iii) of the *TDG Regulations*, and
- subsection 5.10(2) of the *TDG Regulations*,

if the following conditions are met:

Selection and Use

- (a) The requirements applicable to Specification TC-3CCM cylinders in *CSA B340-18* are complied with;

Manufacture and Requalification

- (b) The cylinders were manufactured prior to February 1, 2014, at 336 Enterprise Place, Pomona, CA, in accordance with the specific procedures, the design qualification test reports, and model numbers: ALT 602, ALT 603, ALT 604, ALT 639, ALT 687, ALT 695, ALT 715, ALT 736, ALT 737, ALT 741, ALT 742, ALT 802, ALT 833, ALT 836, ALT 838, ALT 840, ALT 842, ALT 848, ALT 848A, ALT 876, ALT 952, ALT 952M, ALT 952S, ALT 969, ALT 1013 or ALT 1016 filed by Structural Composites Industries, a Worthington Cylinders Company with the Executive Director, Regulatory Frameworks and International Engagement, Regulatory Affairs Branch, Transportation of Dangerous Goods Directorate, Transport Canada;
- (c) The cylinders are in compliance with the requirements applicable to Specification TC-3CCM cylinders set out in *CSA B339-08*, except that the Transport Canada mark, the specification designation, and the service pressure required to be marked on each cylinder in accordance with Clause 4.18.2 of *CSA B339-08* are replaced by "TC-SU 5141-", followed by the service pressure expressed in bar; and
- (d) The cylinders are requalified in accordance with the requirements applicable to Specification TC-3CCM cylinders in *CSA B339-18*.

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Note 1: Subsection 31(4) of the *TDG Act* stipulates that any non-compliance with the conditions of this equivalency certificate causes the provisions of the Act and Regulations to apply as though this equivalency certificate did not exist.

Note 2: Any other requirement of the *TDG Regulations* apply.

Signature of Issuing Authority



David Lamarche, P. Eng., ing.
Chief, Approvals and Special Regulatory Projects

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Contact Person: Luis Ortega
Structural Composites Industries
a Worthington Cylinders Company
336 Enterprise Place
Pomona, CA 91768
U.S.A.

Telephone: 909-444-3329
E-mail: luis.ortega@worthingtonindustries.com

(The following Explanatory Note is for information purposes only and is not part of this certificate.)

Explanatory Note

This equivalency certificate allows for the continued use of fully-wrapped carbon-fibre reinforced aluminium-lined cylinders that were manufactured to comply with the TC-3CCM specification, a new cylinder specification authorized by the 2008 edition of CSA B339. The cylinders were previously only authorized by equivalency certificate and are not marked in accordance with the TC-3CCM specification.

Legend for Certificate Number

SH - Road, SR - Rail, SA – Air, SM - Marine
SU - More than one Mode of Transport
Ren. - Renewal

NOTE

Under Canadian Law, a foreign manufacturer of non-specification cylinders cannot be charged with an offence under the *TDG Act* for failure to comply with the conditions of an Equivalency Certificate. However, certain remedies under the Act are available to Transport Canada in this eventuality.

These include:

1. detention of dangerous goods and consequently the means of containment containing them (subsection 17(1));
2. detention of the means of containment whether full or empty (subsection 17(1));
3. directions not to import the means of containment or to return them to origin (subsection 17(3));
4. inspectors' directions (section 19);
5. directions to importers of the means of containment to issue notices of defective construction or recall (subsection 9(2)); and
6. revocation of the certificate, thereby making any use of the means of containment an offence (subsection 31(6)).

If none of the foregoing are adequate, Protective Directions may be issued to prohibit or to control the use of the means of containment (section 32).