

Proof test Report as per ASTM D-6041**Description of test**

Hydrostatic pressure test of an FRP piping assembly. Diameter of assembly is 8" as agreed with Norsk Hydro. Test performed under ASTM D-6041 standard.

Laminate construction standards

ASME B31.3 - 1996

ASTM D-6041, class A - type II - 1997

Hand lay up process as per Norsk Hydro standards - Class 44

AC Plastiques Canada Inc. Dwgs TU-4291 - Rev. 1

Materials

Resin type Derakane 470-300

Mat : 1.5 oz/ft² mats chop strand mat 0.043in/ply

Roving : 24oz/square yard 0/90 degre woven roving 0.033in/ply

Test Data & acceptance criteria as for the completed assembly

Hydrostatic test pressure : 600 psig Gauge Identification # : Wika - 53922

Duration : 1 hour

Temperature of ambient air : 73 F Temperature of water : 70 F

Humidity : 56%

Temperature and humidity sensor - Equipment Model DG973

Average barcol value as per ASTM D6041 - section 7.3 : 38

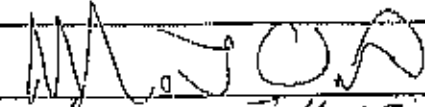
Dimensional chek as per ASTM D6041 - section 8 : ok

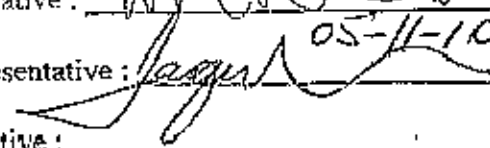
Observations during test**Status of test**

Accepted : Not accepted :

Justification if not accepted :

Witnesses of test

AC Plastiques representative : 

Regie du batiment representative :  05-11-10

Norsk Hydro representative :

Date :

05 / 11 / 10

J. MARCHAND QC # 8714

REGIE DU BATIMENT DU QUEBEC

(K1)

Régie
du bâtiment

Québec

Statutory Declaration Registration of Fittings

(a) Design Qualification

I¹ Martin Ouellet, eng
Director of Engineering

(Position eg, president, plant manager, chief eng.)

of AC Plastiques Canada Inc.

(name of company)

Located at 1395 Montee Chenier, Les Cedras, Quebec, Canada, J7T 1L9, 450-455-3311

(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

comply with all the requirements of the ANSIIASME codes as to their dimensions, material, identification & service for which are required:

Or

are not covered by the provisions of the ANSIIASME codes, and are therefore constructed to comply with _____ code and standard, and are designed to the best current engineering practice, as shown by the supporting test data.

(b) Quality control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of Appendix H / CSA B-51, and has been verified by the following authority or authorized agency : Orlon Registrar Inc. (Orl)

The fittings² covered by this declaration, for which I seek registration, are

Fittings (category A of table I C.S.A. standards made out of thermoplastic lined FRP (Dual Laminate). Thermoplastic lining materials are : PVC, CPVC, PP, PE, PVDF & ECTFE

In support of the application, the following information, calculations and/or test data are attached:

Dwg's TU-4291 page 2 of 2 rev. 1
and proof test report as per ASTM D-6041

Declared before me at _____

In the of _____ of _____

The 10 day of November AD 2005

A (commissioner for oaths)

[Signature] 05/11/1
Signature of Declarer

For Official Use Only

The application is accepted for registration in Category A in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ten (10) years from the date of acceptance.

0402851.6

Registered Number CRN _____

For the Chief Inspector

Date 17 NOV. 2005 J. MARCHAND QC #8714

RÉGIE DU BÂTIMENT DU QUÉBEC

¹ Three completed copies of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.

² All fittings are required to be registered in the name of the Manufacturer.

³ This form shall be completed and signed by the president of highest official in the manufacturing plant where the fitting is produced.

Régie
des Bâtiments

Québec

Statutory Declaration Registration of Fittings

(a) Design Qualification

I Martin Ouellet, eng.
Director of Engineering

(Position eg, president, plant manager, chief eng.)

of AC Plastiques Canada Inc.

(name of company)

Located at 1395 Montee Chenier, Les Cedres, Quebec, Canada, J7T 1L9, 450-455-3311
(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required;

Or
 are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with _____ code and standard, and are designed to the best current engineering practice, as shown by the supporting test data.

(b) Quality control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of Appendix H / CSA B-51, and has been verified by the following authority or authorized agency : Orion Registrar Inc. (Ori)

The fittings² covered by this declaration, for which I seek registration, are Flanges (category B of table I C.S.A. standards made out of thermoplastic lined FRP (Dual Laminate). Thermoplastic lining materials are : PVC, CPVC, PP, PE, PVDF & ECTFE

Dwg's TU-4291 page 1 of 2 rev. 1
and proof test report as per ASTM D-8041

In support of the application, the following information, calculations and/or test data are attached:

Declared before me at _____

in the of _____ of _____

The 10 day of November AD 2005

A (commissioner for oaths)

Martin Ouellet
Signature of Declarer 05/11/05

For Official Use Only

The application is accepted for registration in Category B in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ten (10) years from the date of acceptance.

Registered Number ORN QB02852.6

For the Chief Inspector

Date 17 NOV. 2005 MARCHEMONT QC#8/14

REGIE DU BATIMENT DU QUEBEC

¹ Three completed copies of Statutory Declaration form together with three copies of Catalogs, drawings or Bulletins illustrating above fittings shall be submitted.
² All fittings are required to be registered in the name of the Manufacturer.
³ This form shall be completed and signed by the president or highest official in the manufacturing plant where the fitting is produced.