



Chaussée de Vilvorde, 156  
 Vilvoordsesteenweg 156  
 B-1120 Bruxelles/Brussel  
 Tel.: 32 (0)2 264 03 60  
 Fax: 32 (0)2 268 89 58  
 http://www.apragaz.com  
 info@apragaz.com

### NOTIFIED BODY TYPE APPROVAL CERTIFICATE

Issued in accordance with Pt. 1.8.7.2 of ADR 2013 agreement  
 and following:

Directive 2010/35/EU (TPED)  
 Directives 2008/68/EC (Annex 1) & 2012/45/EU

Certificate N°:

**13/US/3079**

Index 0 – Rev. 0

**Manufacturer: STRUCTURAL COMPOSITES INDUSTRIES**

**Address:** 336 ENTERPRISE PLACE  
 POMONA, CALIFORNIA 91768  
**USA**

**Concerned Equipment: Fully-wrapped composite Gas Cylinders.**

**Model : ALT 1015 E**, made according to the following drawings:

- Envelope Drawing Pressure Vessel: N°. **335160** ('MFG' dated 07-22-13)
- Spun Ported Liner: N°. **1275365** ('MFG' dated 02-05-13)

Test Pressure:	750 bar	Max filling pressure at 21°C:	500 bar
Length:	2300.0 mm Max.	Nominal diameter (out.):	452.12 mm Max.
Capacity:	226.0 L Min.– 228.0 L Nom.	Masse:	176.4 Kg Nom.
Threads:	1.125-12 UNF (19 Threads Min)	Recommended Torque:	176 Nm Maxi.
Liner:	AA6061-T6	Resin:	Epoxy
Type of Fibers:	Carbon + Glass (Protection)	Compatible gas:	HYDROGEN
DESIGN LIFE:	20 YEARS Max.	Periodic inspection:	Every 10 years (#)

(#) This interval of 10 years is subjected to the following conditions:

- Use of RPV (Residual Pressure Valves)
- Before each filling, the gas company will perform a deep **outside** visual inspection of cylinders, in view to ensure of its good state.

**Concerned EC Directives & Standards used for this type approval:**

TPED (2010/35/EU), ADR 2013 & EN 12245 :2009 + A1:2011

The conformity assessment of the concerned equipment will be performed in accordance with:

- Pt. 1.8.7.3 of ADR (Supervision of the manufacture).
- Pt. 1.8.7.4 of ADR (Initial inspection and tests)

This will be performed by a relevant body which can be either:

- A TPED - ADR notified / inspection body (**Xa**), See Pt 6.2.3.6.1 of ADR, or
- The in-house Inspection Service of the manufacturer (**IS**), See Pt 6.2.3.6.1 of ADR.

The manufacturer is allowed to affix the  $\pi$  mark followed by the appropriate notified body identification number to approved equipment under the conditions described in the chapter 3 of the TPED Directive (2010/35/EU).

**The approval is valid until Dec. 1<sup>st</sup> 2023**

Date: Dec. 2<sup>nd</sup> 2013

Name: Ch. Leplat ir

Position: General Manager

Notified body identification n°: **0029**

Signature:

Notified body (Xa): **APRAGAZ**  
 Chaussée de Vilvorde, 156  
 B-1120 Brussels  
 BELGIUM



Notified body reference : 1305/F.2994 Index 0 – REV.0

