The development of this industry average environmental product declaration (EPD) for fabricated hollow structural steel sections (unpainted) manufactured in Canada was commissioned by the Canadian Institute of Steel Construction (CISC). This EPD was developed in compliance with CAN/CSA-ISO 14025 and has been verified by Tom Gloria, Industrial Ecology Consultants.

This EPD includes life cycle assessment (LCA) results for raw material supply, transport and manufacturing stages (cradle-to-gate). The LCA was performed by Groupe AGÉCO.

CISC fabricators authorized to use this industry-average EPD are listed here: http://www.cisc-icca.ca/sustainability/EPD

For more information about CISC, please go to www.cisc-icca.ca.

Issue date: October 19, 2016
This environmental product declaration (EPD) is in accordance with CAN/CSA-ISO 14025 and the PCR noted below. EPDs within the same product category but from different programs may not be comparable.

| **Program operator** | CSA Group  
178 Rexdale Blvd, Toronto, ON, Canada M9W 1R3  
www.csagroup.org |
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<tr>
<td><strong>Product</strong></td>
<td>Fabricated hollow structural steel sections (unpainted)</td>
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<tr>
<td><strong>EPD registration number</strong></td>
<td>#3016-1495</td>
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| **EPD recipient organization** | Canadian Institute of Steel Construction (CISC)  
3760 14th Avenue, Suite 200, Markham, ON, Canada L3R 3T7  
www.cisc-icca.ca |
| **Reference PCR**    | North American Product Category Rule for Designated Steel Construction Products (version 1.0)  
SCS Global Services  
Valid until 2020-05-05  
CPC code: 412 |
| **Date of issue (approval)** | October 19, 2016 |
| **Period of validity** | October 19, 2016 – October 19, 2021 |
| **The PCR review was conducted by:** | Thomas Gloria, Ph.D.  
Industrial Ecology Consultants  
35 Bracebridge Rd.  
Newton, MA 02459-1728  
t.gloria@industrial-ecology.com |
| **The LCA was performed by:** | Groupe AGÉCO  
www.groupeageco.ca |
| **This EPD and related data were independently verified by an external verifier, Thomas Gloria, Industrial Ecology Consultants, according to CAN/CSA-ISO 14025:2006 and ISO 21930:2007.** | Internal | External  
Thomas Gloria, Ph.D.  
Industrial Ecology Consultants  
35 Bracebridge Rd.  
Newton, MA 02459-1728  
t.gloria@industrial-ecology.com  
www.industrial-ecology.com |
This is a summary of the industry average environmental product declaration (EPD) describing the environmental performance of fabricated hollow structural steel sections (HSS) (unpainted) manufactured in Canada. This EPD is only applicable to HSS sourced from Atlas Tube and its affiliates in Canada and the US. CISC fabricators authorized to use this EPD are listed on the CISC website: www.cisc-icca.ca/sustainability/EPD

**EPD commissioner and owner**
Canadian Institute of Steel Construction (CISC)

**Period of validity**
October 19, 2016 to October 19, 2021

**Program operator and registration number**
CSA Group #3016-1495

**Product Category Rule**
North American Product Category Rule for Designated Steel Construction Products v.1

**LCA and EPD consultants**
Groupe AGÉCO

**What is a Life Cycle Assessment (LCA)?**
LCA is a science-based and internationally recognized tool to evaluate the relative potential environmental and human health impacts of products and services throughout their life cycle, beginning with raw material extraction and including all aspects of transportation, production, use, and end-of-life treatment. The method is defined by the International Organization for Standardization (ISO) 14040 and 14044 standards.

**Why an Environmental Product Declaration (EPD)?**
CISC fabricator members are seeking to communicate their environmental performances to clients and to position their products through a rigorous and recognized approach, an EPD. By selecting products with an EPD, building projects can earn credits towards the Leadership in Energy and Environmental Design (LEED) rating system certification. In the latest version of the program (LEED v4), points are awarded in the Materials and Resources category.

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**Product description**
Unpainted fabricated hollow structural steel section as specified by CSA S16, CSA S6, ANSI/AISC 360-10, ANSI/AISC 341-10 and AASHTO LRFD Bridge Design Specification.

**Declared units**
1 metric ton and 1 short ton of unpainted fabricated hollow structural steel section with a density of 7,800 kg/m³ or 487 lb/ft³.

**Material content (% of total product mass)**
Steel: 100%

**Scope and system boundary**
Cradle-to-gate: raw material supply (A1), transport (A2) and manufacturing (A3) stages.

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This EPD summary provides an overview of the full ISO 14025 compliant EPD registered with CSA Group.