

# PHD™

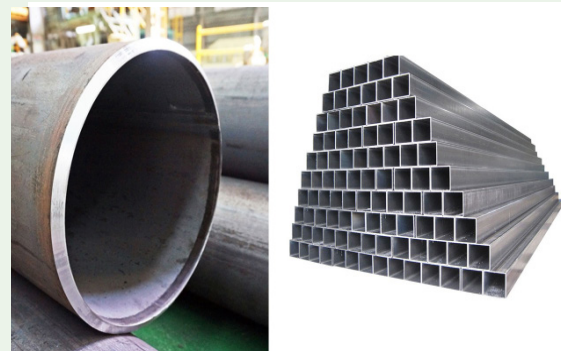
## Product Health Declaration

### Tianjin Yuantai Derun Pipe Manufacturing Group Co., Ltd

# Steel Hollow Sections

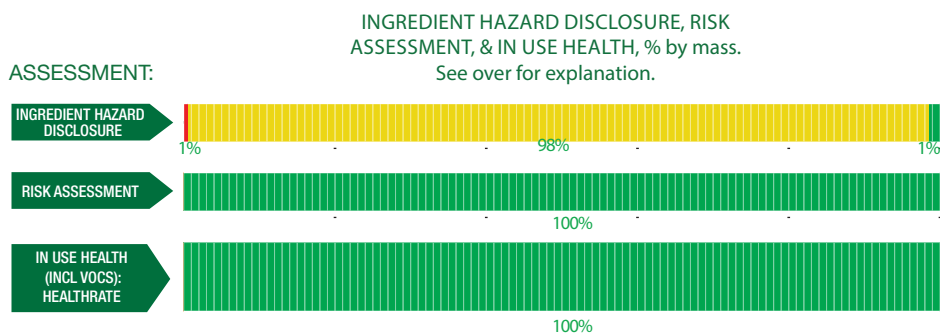
Square, Circular and Rectangular steel hollow section profiles, available in different sizes and grades: Chinese grade low carbon steels: Q195 and Q215A/B; Chinese grade mild steels Q235GJB/C/D, Q345GJC/D/E, Q345B & Q345GJB, Q390GJC/D/E, Q460GJE/D/E; Chinese grade low alloy steels Q420GJC/D/E and Q460GJE/D/E; EN-grade mild steels S235JRH/JOH/J2H, S275JRH/JOH/J2H, S275NH and S355JRH/JOH/J2H, S355NH; Japanese Grade mild steels SS490 and SS400; American grade mild steels A500GA/GB, A500GC, A501GR.A and A501 GR.B; EN-grade low alloy steels S420JOH and S460NH/S460JOH.

<b>Products/Ranges:</b>	Rectangular, Circular and Square Hollow Sections
<b>Product Stages Assessed:</b>	Manufacturing and in-use
<b>Product Type:</b>	Structural Steel for Buildings
<b>CSI Masterformat:</b>	05 12 23
<b>Licensed Site/s:</b>	Tianjin China
<b>Licence Number:</b>	TIA:TI01:2021:PH
<b>Licence Date:</b>	24th September 2021
<b>Valid To:</b>	24th September 2023
<b>Standard:</b>	GGT International v4.0
<b>Screening Date:</b>	21st September 2022
<b>PHD URL:</b>	<a href="https://www.globalgreentag.cn/wp-content/uploads/sites/12/2021/09/210908_TIA_Tianjin-Steel-Hollow-SectionsPHD_v3.pdf">https://www.globalgreentag.cn/wp-content/uploads/sites/12/2021/09/210908_TIA_Tianjin-Steel-Hollow-SectionsPHD_v3.pdf</a>



<b>PHD Summary</b>	<b>Inventory Threshold:</b>	<b>Inventory Method:</b>
Percentage Assessed: <b>100%</b>	100ppm Product Level	Nested Materials

- GreenTag Banned List Compliant.
- Product Meets Optimisation requirements ~ No Grey or Red Light category ingredients.
- Meets Green Star® 'Buildings v1.0' ~ Credit 6: Responsible Structure (Good Practice Products - HealthRate Platinum)
- Meets IWBI® WELL™ v1.0 as Recognized for ~ Feature 26 (Part 1); Feature 97 (Part 1); and meets IWBI® WELL™ v2.0 as Recognized for ~ X07 (Parts 1, 3); X08 (Part 2)
- Meets USGBC LEED® v4.0 and v4.1 Rating Tool Credit, MR Credit: Building Product Disclosure and Optimisation - Material Ingredients - Option 1: Material Ingredient Reporting, Option 2: International ACP - REACH Optimisation.
- No worker, user, and environmental exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors.



Declared by:  
Global GreenTag  
International Pty Ltd

David Baggs  
CEO & Program Director  
Verified compliant with:  
ISO 14024 & ISO 17065

## 1.0 Scope

The Global GreenTag International (GGT) Product Health Declaration (PHD) has been designed to provide an additional level of service to the green product sector in facilitating an easier understanding of both the hazard and risk associated with any certified products and is intended to indicate:

- Chemical hazards of both finished product and unique ingredients to a minimum level of 100ppm for final product throughout the product life cycle, (including any VOC or other gaseous emissions);
- An assessment of exposure or risk associated with ingredient handling, product use, and disposal in relation to established mitigation and management processes;

It is not intended to assess:

- substances used or created during the manufacturing process unless they remain in the final product; or
- substances created after the product is delivered for end use (e.g., if the product unusually degrades, combusts or otherwise changes chemical composition).

GGT PHDs are only issued to products that have passed GGT Standards' certification requirements. The Level of Assessment (BronzeHEALTH, SilverHEALTH GoldHEALTH or PlatinumHEALTH) rating relates ONLY to GGT Standard Sustainability Assessment Criteria 3, and is declared separately to the overall Bronze, Silver Gold or Platinum Green Tag Certification Mark Tier Levels.

## 1.2 Preparing an PHD

GGT PHDs are prepared using Hazard Classifications from the UN Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and as an outcome of a successful Application for Certification. Assessments are undertaken by GGT Qualified Exemplar Global Lead Auditors and subsequently accepted for Certification by the GGT Program Director (also a Qualified Exemplar Global Lead Auditor) under the GGT International Standards v4.0, Personal Products Standard v1.0/1.1, and Cleaning Products Standard v1.1/1.2 and above Program Rules.

## 1.3 External Peer Review

Every GGT PHD is independently peer reviewed by an external Consultant Toxicologist and Member of the Australian College of Toxicology & Risk Assessment.

## 2.0 Declaration of Ingredients

Where a manufacturer wishes recognition under a rating program that requires transparency of ingredients such as LEED v4.0 & v4.1, WELL v1 & v2, Living Building Challenge, Estidama etc., the following information is declared from audit:

Colour	Ingredient Name
Green	<b>Ideal- Low</b> No concerns- ingredient safe at any level based on current known science, % of the ingredient, and relevance to use context'
Yellow	<b>Medium to Low</b> Hazardous Ingredient with minor level of "Issue of Concern" depending on % of the ingredient, hazard level, and relevance to use context'
Orange	<b>Moderate</b> Hazardous ingredient with "Issue of Concern" or "Issue of Concern Minimised" depending on % of the ingredient, hazard level, and relevance to use context'
Red	<b>Problematic (Red): Target for Phase</b> Hazardous ingredient with 'Red Light" or "Red Light Minimised" concern depending on % of the ingredient, hazard level, and relevance to use context'
Dark Red	<b>Very Problematic (Dark Red): Target for Phase</b> Very Hazardous ingredient with 'Red Light Exclusion" concern depending on % of the ingredient, hazard level, and relevance to use context'
Grey	<b>Uncategorised</b> Not able to be categorised due to lack of toxicity impact information.
Black	<b>Banned Ingredients</b> Petroleum, Parabens plus a wide range of compounds stipulated by cleaning/personal products standards.

Global GreenTag International Pty Ltd (Global GreenTag) is not a medical professional organisation. Global GreenTag does not purport to provide medical advice, and makes no warranty, representation, or guarantee regarding the declaration that it provides in relation to any allergies, chemical sensitivities or any other medical condition, nor does Global GreenTag assume any liability whatsoever arising out of the application or use of any product or piece of equipment that has been chemically assessed by Global GreenTag.

The chemical assessments carried out provide transparent information peer reviewed by a consultant toxicologist regarding the chemical make-up and ingredients of certain materials and products, but such assessments are not to be taken as any form of medical assessment or health advice and are not targeted towards providing specific solutions to allergenic conditions or any other type of medical concerns.

Users must carry out their own investigations if they are concerned about specific medical conditions and the impact of certain products or ingredients in relation to specific medical concerns.

Global GreenTag takes no responsibility and is not liable in any way with respect to any medical or health issues arising from a person's use of materials or products that have been chemically assessed by Global GreenTag. Global GreenTag shall not be liable for any direct, indirect, punitive, incidental, special or consequential damages to property or life whatsoever, arising out of or connected with the use or misuse of any materials or products that have been assessed by Global GreenTag.

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Exposure Category	Ingredient Assessment	Whole Of Life Assessment	In Use Health Assessment	Comment
Material: Structural Steel								
Iron	7439-86-9	98	H251,H228	Self-heat. 1, Flam. Sol. 1				Iron is alloyed with the final steel product. There is very rare chance for end users to be irritated.
Carbon	481066-70-0	0.12	None	None				The substance pose no risks to end-users
Manganese	7439-96-5	0.5	H411,H412	Aquatic Chronic 3, Aquatic Chronic 2				Manganese is alloyed with the final steel product. There is very rare chance for end users to be irritated.
Silicon	7440-21-3	0.3	None	None				The substance pose no risks to end-users
Sulphur	7440-34-9	0.04	H315	Skin Irrit. 2				Sulphur is alloyed with the final steel product. There is very rare chance for end users to be irritated.
Phosphorus	7723-14-0	0.035	H228,H412	Flam. Sol. 1, Aquatic Chronic 3				Phosphorus is alloyed with the final steel product. There is very rare chance for end users to be irritated.
Aluminium	7429-90-5	0.015	H261,H228	Water-react. 2, Flam. Sol. 1				Aluminium is alloyed with the final steel product. There is very rare chance for end users to be irritated.