GLOBAL GREEN TAG INTERNATIONAL PTY LTD

PHD™
Product Health Declaration

GLOBAL GREENTAG HEALTH RATE
Platinum HEALTH
CERT TM
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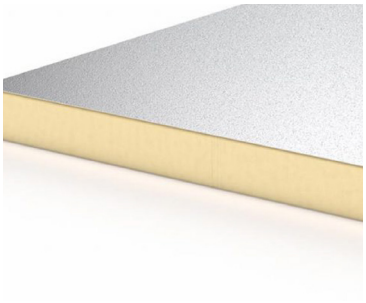
Conqueror NZ Ltd

PIR Insulated Board Embossed Foil

Conqueror NZ is New Zealand's only manufacturer of PIR foam core panel products on a continuous line. The PIR panel offers thermal resistance having an Initial R-value of 3.91 for the 80mm panel. The PIR panel also offers sound insulation with it's 100mm panel receiving an ASTM E413-87 Sound Transmission Class of 21 dB. Each panel has a 15 year warranty and is manufactured in New Zealand.



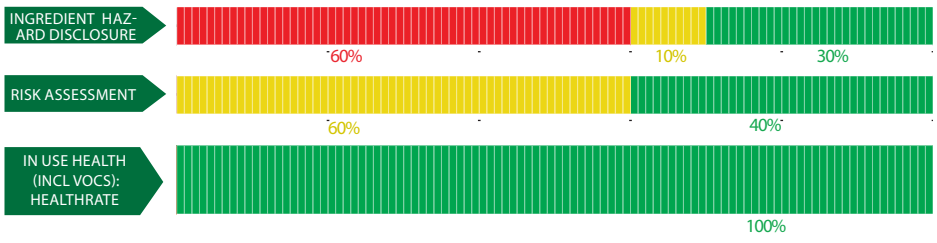
Products/Ranges:	PIR Insulated Board Embossed Foil
Product Stages Assessed:	Whole of life + In-Use
Product Type:	Insulated Panel
CSI Masterformat:	07 20 00
Licenced Site/s:	Yaldhurst Christchurch, New Zealand
Licence Number:	CNZ:CN02:2021:PH
Licence Date:	15th June 2022
Valid To:	15th June 2024
Standard:	GGT International v4.0
Screening Date:	15th June 2022
PHD URL:	https://www.globalgreentag.com/getfile/13077/phd.pdf

PHD Summary	Inventory Threshold:	Inventory Method:
Percentage Assessed: 100%	100ppm Product Level	Nested Materials

- GreenTag Banned List Compliant.
- GreenTag PHD recognized by WELL™ & LEED ® Material Transparency & Optimization credits included below:
- Meets IWBI ® WELL™ v1.0 as Recognized for ~ Feature 26 (Part 1); Feature 97 (Part 1); as a Compliant Technical Document (Audited) for ~ Feature 04 (Part 4); Feature 11 (Part 1); and, meets IWBI ® WELL™ v2.0 as Recognized for ~ X07 (Parts 1, 3); X08 (Part 2); as a Compliant Technical Document (Audited) for ~ X01 (Part 1); X06 (Part 2); X07 (Part 2); X08 (Part 1).
- Meets USGBC LEED ® v4.0 and v4.1 Rating Tool Credit as Recognized for MR Credit: Building Product Disclosure and Optimisation - Material Ingredients - Option 1: Material Ingredient Reporting, Option 2: International ACP - REACH Optimisation.
- Highly unlikely worker, user, and environmental exposure to any Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors.

INGREDIENT HAZARD DISCLOSURE, RISK ASSESSMENT, & IN USE HEALTH, % by mass.
See over for explanation.

ASSESSMENT:



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:

i. substances used or created during the manufacturing process unless they remain in the final product; or

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

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment	Whole Of Life Assess-ment	In Use Health Assessment	Comment
Polyol							
Triethyl phosphate	78-40-0	1-5%	H302, H319				If exposed to the eyes, the unreacted substance can cause eye irritation. It is also harmful if swallowed. In use, the substance poses no risk of exposure to the end-user as the substance is cured and embedded inside the polyure-thane foam. The polyurethane foam is fully covered with galvanized steel. The manufacturer has OHS in place and a chemical handling policy. Recycled Content: None Nanomaterials: unknown
Polyether polyol	25084-89-3	1-5%	H317, H319, H412				The substance can cause eye and skin irrita-tion. The manufacture have OHS in place. The substance is cured and embedded inside the polyurethane foam. The polyure-thane foam is fully covered with galvanized steel, the chance of it being released under normal condition is non existent. Recycled Content: None Nanomaterials: unknown
TCMTP	13674-84-5	1-5%	None				There is no identifiable risk to the end-user. Recycled Content: None Nanomaterials: unknown
Diethylene glycol	111-46-6	1-5%	H302				The substance is harmful if swallowed. In use, the substance poses no risk of exposure to the end-user as the substance is cured and embedded inside the polyure-thane foam. The polyurethane foam is fully covered with galvanized steel. The manufacturer has OHS in place and a chemical handling policy. Recycled Content: None Nanomaterials: unknown
Lactic acid	50-21-5	1-5%	None				There is no identifiable risk to the end-user. Recycled Content: None Nanomaterials: unknown
Potassium 2-ethyl-hexanoate	3164-85-0	1-5%	H315, H361, H318				If exposed to the eyes and skin, the unre-acted substance can cause eye damage and skin irritation. The substance is also suspect-ed of damaging fertility or the unborn child. In use, the substance poses no risk of exposure to the end-user as the substance is cured and embedded inside the polyure-thane foam. The polyurethane foam is fully covered with galvanized steel. The manufacturer has OHS in place and a chemical handling policy. Recycled Content: None Nanomaterials: unknown
Aromatic Polyester Polyol	9016-88-0	15-20%	None				There is no identifiable risk to the end-user. Recycled Content: None Nanomaterials: unknown
Catalyst							

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment	Whole Of Life Assess-ment	In Use Health Assessment	Comment
Polyether polyol	25791-96-2	0.1-1%	None				There is no identifiable risk to the end-user. Recycled Content: None Nanomaterials: unknown
1,3,5-Tris[3-(dime-thylamino)propyl] hexahydro-1,3,5-tri-azine	15875-13-5	0.1-1%	H318, H312, H315				If exposed to the eyes and skin, the unre-acted substance can cause eye damage and skin irritation. The substance is also harmful to aquatif life if released to aquatic environment. In use, the substance poses no risk of exposure to the end-user as the substance is cured and embedded inside the polyure-thane foam. The polyurethane foam is fully covered with galvanized steel. The manufacturer has OHS in place and a chemical handling policy. Recycled Content: None Nanomaterials: unknown
Triethyl phosphate	78-40-0	0.1-1%	H302, H319				If exposed to the eyes, the unreacted substance can cause eye irritation. It is also harmful if swallowed. In use, the substance poses no risk of exposure to the end-user as the substance is cured and embedded inside the polyure-thane foam. The polyurethane foam is fully covered with galvanized steel. The manufacturer has OHS in place and a chemical handling policy. Recycled Content: None Nanomaterials: unknown
Potassium 2-ethyl-hexanoate	3164-85-0	0.1-1%	H315, H361, H318				If exposed to the eyes and skin, the unre-acted substance can cause eye damage and skin irritation. The substance is also suspect-ed of damaging fertility or the unborn child. In use, the substance poses no risk of exposure to the end-user as the substance is cured and embedded inside the polyure-thane foam. The polyurethane foam is fully covered with galvanized steel. The manufacturer has OHS in place and a chemical handling policy. Recycled Content: None Nanomaterials: unknown
Diethylene glycol	111-46-6	0.01-0.1%	H302				There is no identifiable risk to the end-user. Recycled Content: None Nanomaterials: unknown
Additive							

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment	Whole Of Life Assess-ment	In Use Health Assessment	Comment
Polyether polyol	25084-89-3	0.1-0.5%	H317, H319, H412				If exposed to the eyes and skin, the unreact-ed substance can cause eye and skin irrita-tion. The substance is also harmful to aquatif life if released to aquatic environment. In use, the substance poses no risk of exposure to the end-user as the substance is cured and embedded inside the polyure-thane foam. The polyurethane foam is fully covered with galvanized steel. The manufacturer has OHS in place and a chemical handling policy. Recycled Content: None Nanomaterials: unknown
Triethyl phosphate	78-40-0	0.01-0.1%	H302, H319				If exposed to the eyes, the unreacted substance can cause eye irritation. It is also harmful if swallowed. In use, the substance poses no risk of exposure to the end-user as the substance is cured and embedded inside the polyure-thane foam. The polyurethane foam is fully covered with galvanized steel. The manufacturer has OHS in place and a chemical handling policy. Recycled Content: None Nanomaterials: unknown
Propane-1,2-diol, propoxylated	25322-69-4	0.01-0.1%	None				There is no identifiable risk to the end-user. Recycled Content: None Nanomaterials: unknown
Water	7732-18-5	0.01-0.1%	None				There is no identifiable risk to the end-user. Recycled Content: None Nanomaterials: unknown
Blowing agent							
N Pentane	109-66-0	1-5%	H304, H411, H225, H336				The unreacted substance is toxic to aquatic life. The manufacture have a waste treatment and Environmental Management System in place. In use, substance pose no risk of exposure to end user. Recycled Content: None Nanomaterials: unknown
C-Pentane	287-92-3	0.01-0.1%	H412, H225				The unreacted substance is toxic to aquatic life. The manufacture have a waste treatment and Environmental Management System in place. In use, substance pose no risk of exposure to end user. Recycled Content: None Nanomaterials: unknown
I-Pentane	78-78-4	<0.01%	None				There is no identifiable risk to the end-user. Recycled Content: None Nanomaterials: unknown

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment	Whole Of Life Assess-ment	In Use Health Assessment	Comment
Pre-Polymer							
Diphenylmeth-anediisocyanate, polymeric	9016-87-9	50-60%	IARC 3, H319, H332, H315, H334, H335, H351, H373, H317				If exposed to the skin, eyes, and respiratory system, the unreacted substance can cause eye, respiratory, and skin irritation. The substance is not classifiable as carcinogenic to humans. In use, the substance poses no risk of exposure to the end-user as the substance is cured and embedded inside the polyure-thane foam. The polyurethane foam is fully covered with galvanized steel. The manufacturer has OHS in place and a chemical handling policy. Recycled Content: None Nanomaterials: unknown
4,4'-methylenedi-phenyl diisocyanate	101-68-8	25-35%	IARC 3, H319, H332, H315, H334, H335, H351, H373, H317				If exposed to the skin, eyes, and respiratory system, the unreacted substance can cause eye, respiratory, and skin irritation. The substance is not classifiable as carcinogenic to humans. In use, the substance poses no risk of exposure to the end-user as the substance is cured and embedded inside the polyure-thane foam. The polyurethane foam is fully covered with galvanized steel. The manufacturer has OHS in place and a chemical handling policy. Recycled Content: None Nanomaterials: unknown
2,4'-methylenedi-phenyl diisocyanate	5873-54-1	1-10%	None				There is no identifiable risk to the end-user. Recycled Content: None Nanomaterials: unknown
Embossef Foil 1							
Aluminium (Al)	7429-90-5	5-10%	H228, H261				The unreacted substance can release flam-mable gas when in contact with water, and it is flammable. The substance is bond into with all the other elements through a metallic bond to form aluminum foil. In this form, the material is non hazardous Recycled Content: None Nanomaterials: unknown
Silicone (Si)	7440-21-3	0.01-0.1%	None				There is no identifiable risk to end user. Recycled Content: None Nanomaterials: unknown
Iron (Fe)	7439-89-6	0.01-0.1%	None				There is no identifiable risk to end user. Recycled Content: None Nanomaterials: unknown
Embossef Foil 2							
Aluminium (Al)	7429-90-5	5-10%	H228, H261				The unreacted substance can release flam-mable gas when in contact with water, and it is flammable. The substance is bond into with all the other elements through a metallic bond to form aluminum foil. In this form, the material is non hazardous Recycled Content: None Nanomaterials: unknown

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assessment	Whole Of Life Assess-ment	In Use Health Assessment	Comment
Iron (Fe)	7439-89-6	0.01-0.1%	None				There is no identifiable risk to end user. Recycled Content: None Nanomaterials: unknown
Silicone (Si)	7440-21-3	0.01-0.1%	None				There is no identifiable risk to end user. Recycled Content: None Nanomaterials: unknown

GHS Classification reference:
H261: Water React 2
H228: Flam. Sol 1
H302: Accute Tox. 4
H304: Asp Tox. 1
H312: Accute Tox. 4
H315: Skin Irrit. 2
H317: Skin Sens. 1
H318: Eye Dam. 1
H319: Eye Irrit. 2
H332: Skin Irrit. 2
H334: STOT SE. 3
H351: Carc. 2
H361: Repr. 2
H373: STOT RE. 2
H411: Aquatic Chronic 2
H412: Aquatic Chronic 3

Comments:
TVOC is < 0.500 mg/m2/hr and Formaldehyde Emission Concentration Limit <0.05 ppm using test method ASTM D5116-2017 (Expiry date 28/04/2028). The results are representative of the equivalent and lesser weighted product specifications that are made from the same raw material by Conqueror NZ Limited and these include thickness range from 20mm to 155mm (increment of 5mm).