

CONSTRUCTION INDUSTRY COUNCIL

CIC GREEN PRODUCT CERTIFICATION

Thermal Insulation

Assessment Standard

(Version 1.1a)

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Thermal Insulation

Summary of Assessment Criteria

CORE CRITERIA

Critoria	Requirements	Verification	Points		Inder
Criteria	Reguirements	verification	Basic	+Bonus	тиел
Serviceability	 Quality, durability and performance properties of the product shall be demonstrated through at least <i>FIVE</i> testing items including, but not limited to, the followings: Water Vapour Permeance / Sorption / Transmission Surface Burning/ Hot-surface Performance Fungi Resistance Corrosion Resistance Odour Emission Elevated Temperature and Humidity Resistance Shrinkage Tensile/ Bond Strength Water Resistance/ Absorption Flammability / Flame Retardance Permanence Smoldering Combustion Adhesive / Cohesive Strength Compressive / Flexural Strength 	Laboratory test report(s) and any production documentation for all relevant quality and performance tests	Basic 5	+Bonus	4.1.3 (page 4)
Thermal Conductivity	 Thermal conductivity of the product shall not be more than the following limit: 0.038 kcal/mh°C, or 0.044 W/mK at 22°C to 24°C mean, with respect to its insulation rate (heat conduction rate, heat resistance) (15 basic points) 0.026 kcal/mh°C, or 0.030 W/mK at 22°C to 24°C mean, with respect to its insulation rate (heat conduction rate, heat resistance) (+5 bonus points) 	Documentation including, but not limited to, test reports, product catalogue and MSDS	15	+5	4.4.1 (page 10)

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Flame Retardants	 Concentration of the following flame retardants in the product shall be below 0.1% by weight of the product: Polybrominated diphenyl ether Polybrominated biphenyls Short-chained chlorinated paraffin Hexabromocyclododecane 	Laboratory test report(s), and any production documentation	10		4.2.3 (page 8)
Volatile Organic Compounds & Formaldehyde	 The emissions of finished wall covering product shall not exceed the following limits: Total volatile organic compounds: <0.5mg/m³ Formaldehyde: < 0.05 mg/m³ or < 80 ppm 	Laboratory test report(s), and any production documentation	10		4.2.4 (page 8)
Heavy Metals	 Concentration of the following toxic heavy metals (and their related compounds) in the product shall be below 0.1% by weight of the product: Hexavalent chromium (Cr6+) Lead (Pb) Mercury (Hg) 	Laboratory test report(s), and any production documentation	10		4.2.1 (page 6)
		Subtotal:	50	+5	

NON-CORE CRITERIA

Critoria	Paguiromonto	Vorification	Points	Inder
Crueria	Kequitements	verification	+Bonus	тиел
Environmental	Manufacturer shall possess valid certification of ISO	A valid certificate	+5	4.1.1
Management	14001, EU Eco-Management and Audit Scheme	issued by		(<i>page 3</i>)
System	(EMAS) or Cradle-to-Cradle.	accredited		
		certification body		
Energy	Manufacturer shall implement effective energy	Detailed policies,	+5	4.3.1
Management	management policies and procedure and/or an energy	procedures,		(page 9)
	management programme covering the manufacturing	programs and/ or		
	operations. The following information shall be	plans of energy		
	documented (as relevant):	management		
	• Initiatives taken to reduce energy use and			
	improve energy efficiency			
	• Initiatives or requirements for suppliers or			
	contract manufacturers			

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Raw Materials	Applicant shall provide a de	tailed brea	kdown of	all	Documentation	+5/+10	433
	materials composing the thermal insulation products			including but not	13/110	(nage 9)	
	for compliance. The product shall be made of required			limited to		(page))	
	minimum percentage of recy	veled conte	ent by weight	pht	product		
	(where applicable) as below	:		5	catalogue, MSDS		
		Li	mit		and written		
	Product	Bonus	Bonus	-	declaration		
	(if applicable)	(+5)	(+10)				
	Glass wool	≥50%	≥55%	-			
	Mineral Wool (Rock/ Slag Wool)	≥20%	≥35%				
	Cellulose	≥75%	≥80%				
	Plastics or synthetic polymers	≥50%	≥55%				
	Extruded polystyrene	≥20%	≥25%				
	Polyisocyanurate (plastic component only, e.g. not	>10%	>15%				
	including facing)						
	Aluminium reflective insulation (plastic layer	≥20%	≥30%				
	content)						
Product	Applicant shall provide the	following	product		Documentation	+5	4.1.2
Information	information on the product p	packaging,	catalogue		including, but not		(page
	and/or company website for	compliant	ce:		limited to,		4)
	Basic product specifica	tions			product label,		
	• The intended use of the	product			product		
	• Instructions for correct	use and ste	orage to		catalogue, MSDS,		
	maximise the lifetime of	of the produced	uct		and written		
	Recommended mainten	ance instru	uctions for	the	declaration		
	product						
	Installation method						
	Instructions for consum	er product	t disposal				
	Country of origin						

Waste Management	 Manufacturer shall implement effective waste management policies and procedure and/or a waste management programme covering the manufacturing operations. The following information shall be documented (as relevant): Initiatives taken to reduce waste generation and improve recovery/recycling of waste Initiatives to recovery of post-consumer and/or pre-consumer waste that can be re-introduced to the manufacturing process Other environmental benefits or constraints associated with waste minimisation objectives and processes 	Detailed policies, procedures, programs and/ or plans of waste management	+5	4.3.2 (page 9)
Reuse and Recycling	 Applicants shall provide information on reuse, recycling and biodegradability of the products including but not limited to for compliance: Product shall not be impregnated, labelled, coated or treated in a manner preventing post-consumer recycling Information related to the degradation or recycling of products 	Documentation including, but not limited to, product catalogue, MSDS, and written declaration	+5	4.4.2 (page 10)
Hazardous Substances	 Concentration of the hazardous substance in the product shall be below 0.1% by weight of the product. The restricted hazardous substance including the following types: Organotin compounds Carcinogens or any substance listed in the IARC's current Group 1, 2A and 2B Mutagens substance (i.e. agents which increasing the occurrence of mutations) listed in the EU Legislation Group 1A, 2A and 2B Reproductive toxins (Agents which cause adverse effects on sexual function and fertility in males and females, developmental toxicity in the offspring and effects through or via lactation) listed in the EU Legislation Group 1A, 2A and 2B 	Laboratory test report(s), MSDS, self-declaration letter and production documentation	+5	4.2.2 (page 7)

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Packaging Requirement	 Aziridine or polyaziridines Alkylphenol ethoxylates The following requirements are applicable to the products with plastic content only: Concentration of phthalate in the product shall below 0.1% by weight of the product. The limited phthalates including the following types: Bis(2-ethylhexyl)phthalate (DEHP) Dibutyl phthalate (DBP) benzylbutylphthalate (BBP) Diisononylphthalate (DINP) Diisodecylphthalate (DINP) Di-n-octylphthalate (DNOP) All packaging shall be able to be reused/recycled in the country All plastic packaging (if applicable) shall be made of plastics that are able to be recycled in the country All plastics packaging (if applicable) shall be made of plastics that are able to be recycled in the country where the product is sold and shall not contain halogenated plastics Packaging shall not be impregnated, labelled, coated or otherwise treated in a manner, which would prevent or significantly limit recycling (i.e. metallic labels) Packaging shall provide the nature of the materials used for the packaging in order to facilitate identification and classification based on European Parliament and Council Directive 94/62/EC on packaging and packaging waste 	Documentation including, but not limited to, product catalogue and written declaration	+5	4.4.3 (page 10)
	 Biocides Aziriding or polyaziridings 			

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1. INTRODUCTION

1.1 PURPOSE

The CIC Green Product Certification (formerly known as HKGBC Green Product Accreditation and Standards [HK G-PASS]) (herein after referred as the "Scheme") is an environmental labelling scheme owned by the Construction Industry Council (CIC) and implemented by the Hong Kong Green Building Council (HKGBC) which aims to help consumers, building professionals and policy makers identify environmentally preferable building materials and products. This Assessment Standard (hereafter referred as the "Standard") sets out the assessment criteria and their benchmarks for Thermal Insulation products to govern the application and award of a label under the Scheme. The Standard also defines the verification methods to determine which labelling grade should be awarded to the product according to the assessment criteria.

This Standard neither modifies nor supersedes laws and regulations. Compliance with this Standard is not a substitute for, and does not assure, compliance with any applicable laws or regulations. Compliance with all applicable laws and regulations is a prerequisite for the manufacturing and marketing of the product.

1.2 BACKGROUND

Thermal Insulation can place a significant burden on the environment, from raw material extraction to potential health hazards in the use phase. With increasing environmental claims of thermal insulation in the market, a more comprehensive and systematic approach to assess the environmental impacts of the thermal insulation shall be developed. The aim of this Standard is to help designers and end-users choosing greener products by conserving resources, reducing the amount of waste disposal in landfills and reducing the impact to human health throughout the life cycle of thermal insulation. The development of the assessment criteria in this Standard has made references to worldwide relevant eco-labelling schemes and some existing life cycle assessment (LCA) studies.

2. SCOPE

The scope of this Standard is applicable to thermal insulation materials used in the building applications (e.g. wall, floor, ceiling, floor, etc.) for reducing heat transfer. Insulation materials that fall under this guideline include:

- Batt and blanket type
- Rigid board-type
- Spray-on/loose-fill type
- Reflective type (e.g. aluminium foil)
- Radiant barrier type (e.g. plastic film)

The materials for the thermal insulation shall be specified clearly in each application. One application is applicable to the thermal insulation manufactured with same specifications and materials. Products under the same series with different sizes, thickness and shapes could be included in **ONE** application.

Subsequent application is available for products under the same product series and manufactured with the same type of raw materials.

Maximum **FIVE** subsequent applications shall be available and the subsequent application is only eligible for applying within the validity period of the label.

Note:

Each application should specify the product code / serial number.

CIC or an appointed third party would conduct a random check of the labelled product during the validity period of the label. One of the laboratory tests listed below will be selected and performed to verify the compliance of the product with the criteria stated in the Assessment Standard. Applicant shall be responsible for the cost of the laboratory test.

3. **DEFINITIONS**

Applicant:	Organisation which apply for the label under the CIC Green Product Certification of the Construction Industry Council			
ASTM:	American Society for Testing and Materials			
BS:	British Standards			
CIC:	Construction Industry Council			
CNAS:	China National Accreditation Service for Conformity Assessment			
HKAS:	Hong Kong Accreditation Service			
HKGBC:	The Hong Kong Green Building Council Limited			
HOKLAS:	The Hong Kong Laboratory Accreditation Scheme			
IARC:	International Agency for Research on Cancer			
ISO:	International Organisation for Standardisation			
MSDS:	Material safety data sheet. To qualify as suitable, MSDS and information therein must not be more than 5-years old			

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US EPA: United States Environmental Protection Agency

Thermal The time rate of steady state heat flow through a unit area of a homogeneous material induced by a unit temperature gradient in a direction perpendicular to that unit area.

4. EVALUATION CRITERIA

A product to be assessed shall meet all the minimum requirements of the "Core Criteria" in order to be awarded a "Green" (i.e. a "pass" grade) Label under the Scheme. Bonus points may be awarded if the product meets the "Non-core Criteria" and a "Bronze", "Silver", "Gold" or "Platinum" Label will be awarded according to the total points accumulated (see Section 5 for details). All submissions and documentation shall be endorsed by the Chief Executive Officer or other authorised persons of the Applicant to demonstrate conformance to the assessment criteria. All certifications, laboratory reports and documentations must be valid during the assessment process and labelling period. All laboratory reports and documentation shall be within 5 years from the date of issue. The chemical tests should be conducted by either a third party or the manufacturer who has received the ISO17025 certification or relevant national accreditation systems, e.g. HOKLAS, CNAS, etc. CIC or an appointed third party would conduct a random check of the labelled product during the period of validity of the label, through laboratory test to verify the compliance with the criteria as stated in the Standard. Manufacturer shall bear the cost of the laboratory test.

4.1 GENERAL REQUIREMENTS

4.1.1 Environmental Management System

5 Points (Non-core Criterion)

Manufacturer shall possess valid certification of ISO 14001, EU Eco-Management and Audit Scheme (EMAS) or Cradle-to-Cradle.

Note:

BS EN ISO 14001 is the international standard which provides an outline of how to meet the environmental policy and objectives for the business of the applicant.

Eco-Management and Audit Scheme (EMAS) is an environmental management tool which enables organisations to assess, manage and continuously improve their environmental performance.

Cradle-to-Cradle design is a biomimetic approach to the design of products and systems. It models human industry on nature's processes viewing materials as nutrients circulating in healthy and safe metabolisms.

Verification

A valid certificate issued by local or oversea accredited certification body.

4.1.2 Product Information

5 Points (Non-core Criterion)

Applicant shall provide the following product information on the product packaging, catalogue and/or company website for compliance:

- Basic product specifications
- The intended use of the product
- Instructions for correct use and storage to maximise the lifetime of the product
- Recommended maintenance instructions for the product
- Installation method
- Instructions for consumer product disposal
- Country of origin

Verification

Documentation including, but not limited to, product label, product catalogue, MSDS, and written declaration.

4.1.3 Serviceability

5 Points (Core Criterion)

Quality, durability and performance properties of the product shall be demonstrated through at least FIVE testing items (as applicable to material type) including, but not limited to, the following, in accordance with relevant testing methods (or later version); other related testing methods are also acceptable with justification provided by the applicant:

Water Vapour	ASTM C209-15, ASTM C739-11, ASTM C1289-14a,
Permeance / Sorption /	ASTM C1497-12, ASTM C547-15, ASTM C553-13,
Transmission	ASTM C612-14, ASTM C665-12, ASTM C1104/
	C1104M-13a, ASTM C1136-17, ASTM E96/96M-16
Surface Burning/	ASTM C1149-11, ASTM C547-15, ASTM C553-13,
Hot-surface Performance	ASTM C612-14, ASTM C665-12, ASTM C1136-17,
	ASTM E84-16, ASTM C411-11, ASTM E84-16
Fungi Resistance	ASTM C739-11, ASTM C1149-11, ASTM C1338-14,
	ASTM C1497-12, ASTM C553-13, ASTM C612-14,
	ASTM C665-12, ASTM C1136-17
Corrosion Resistance	ASTM C739-11, ASTM C1149-11, ASTM C1497-12,
	ASTM C547-15, ASTM C553-13, ASTM C612-14,
	ASTM C665-12

Odour Emission	ASTM C739-11, ASTM C1149-11, ASTM C1497-12,
	ASTM C553-13, ASTM C612-14, ASTM C665-12,
	ASTM C1304-08 (13)
Elevated Temperature	ASTM C553-13, ASTM C612-14, ASTM C1136-17,
and Humidity Resistance	ASTM C1258-08
Shrinkage	ASTM C1497-12, ASTM C547-15, ASTM C612-14,
	ASTM C356-17
Tensile/ Bond Strength	ASTM C209-15, ASTM C1289-14a, ASTM
	C1136-17, ASTM E736/ E736M-00 (15)
Water Resistance/	ASTM C209-15, ASTM C1149-11, ASTM
Absorption	C1289-14a, ASTM C1136-17
Flammability / Flame	ASTM C209-15, ASTM C1497-12, ASTM C1136-17
Retardance Permanence	
Smoldering Combustion	ASTM C739-11, ASTM C1149-11, ASTM C1497-12
Adhesive / Cohesive	ASTM C1149-11, ASTM C1136-17, ASTM E736/
Strength	E736M-00 (15)
Compressive / Flexural	ASTM C209-15, ASTM C1289-14a
Strength	

Requirement of cellulosic insulation:

- ASTM C209-15
- ASTM C739-11
- ASTM C1149-11
- ASTM C1338-14
- ASTM C1289-14a
- ASTM C1497-12

Requirement of mineral fibre insulation:

- ASTM C547-15
- ASTM C553-13
- ASTM C612-14
- ASTM C665-12
- ASTM C1104/C1104M-13a

Requirement of pipe insulation:

• ASTM C335/C335M-10

Requirement of overall insulation:

- ASTM C1136-17 ASTM
- ASTM E96/96M-16

- ASTM E84-16
- ASTM C356-17
- ASTM C411-11
- ASTM C518-17
- ASTM C1258-08
- ASTM C1304-08 (13)
- ASTM E736/E736M-00 (15)
- ASTM C1363-11
- ASTM E84-16

Verification

Laboratory test report(s) and any production documentation for all relevant quality and performance tests.

4.2 HUMAN TOXICITY

4.2.1 Heavy Metals

10 Points (Core Criterion)

Concentration of toxic heavy metals (and their related compounds) in the product shall be below 0.1% by weight of the product. The limited heavy metals including the following types:

- Hexavalent chromium (Cr6+)
- Lead (Pb)
- Mercury (Hg)

Product shall be tested based on the requirements as stated in BS EN 62321:2009 (or later version); other related testing methods are also acceptable with justification provided by the applicant.

Note:

BS EN 62321 specifies the determination of the levels of lead (Pb), mercury (Hg), cadmium (Cd), hexavalent chromium (Cr(VI)) contained in inorganic and organic compounds.

Verification

Laboratory test report(s), and any production documentation.

4.2.2 Hazardous Substances

5 Points (Non-core Criterion)

Concentration of the hazardous substance in the product shall be below 0.1% by weight of the product. The restricted hazardous substance including the following types:

- Organotin compounds
- Carcinogens or any substance listed in the IARC's current Group 1, 2A and 2B
- Mutagens substance (i.e. agents which increasing the occurrence of mutations) listed in the EU Legislation Group 1A, 2A and 2B
- Reproductive toxins (i.e. agents which cause adverse effects on sexual function and fertility in males and females, developmental toxicity in the offspring and effects through or via lactation) listed in the EU Legislation Group 1A, 2A and 2B
- Biocides
- Aziridine or polyaziridines
- Alkylphenol ethoxylates

The following requirements are applicable to the products with plastic content only:

The concentration of phthalate in the product shall below 0.1% by weight of the product.

The limited phthalates including the following types:

- Bis(2-ethylhexyl)phthalate (DEHP)
- Dibutyl phthalate (DBP)
- Benzylbutylphthalate (BBP)
- Diisononylphthalate (DINP)
- Diisodecylphthalate (DIDP)
- Di-n-octylphthalate (DNOP)

Applicant shall test all the above phthalates in according to National or International standard such as CPSC-CH-C1001-09.3.

Note:

CPSC-CH-C1001-09.2 is a document which provide detailed information on the test methods that will be used by the U.S. Consumer Product Safety Commission's (CPSC) testing laboratory (LSC) for the analysis of phthalate content in children's toys and child care articles covered by the standard set forth in the Consumer Product Safety Improvement Act Section 108.

Laboratory test report(s), MSDS, self-declaration letter and production documentation.

4.2.3 Flame Retardants

5 Points (Core Criterion)

Concentration of the flame retardants in the product shall be below 0.1% by weight of the product. The restricted flame retardants including the following types:

- Polybrominated diphenyl ether
- Polybrominated biphenyls
- Short-chained chlorinated paraffin
- Hexabromocyclododecane

Product shall be tested based on the requirement as stated in BS EN 62321:2009 (or later version); other related testing methods are also acceptable with justification provided by the applicant.

Note:

BS EN 62321 specifies the determination of the levels of brominated flame retardants, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) contained in electrotechnical products.

Verification

Laboratory test report(s), and any production documentation.

4.2.4 Volatile Organic Compounds & Formaldehyde

10 Points (Core Criterion)

The finished wall covering products shall not exceed the following limits:

- Total volatile organic compounds: < 0.5 mg/m³
- Formaldehyde: $< 0.05 \text{ mg/m}^3 \text{ or } < 80 \text{ ppm}$

Products shall be tested in accordance including but not limited to ASTM D 5116-10: Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Materials / Products or the California Department of Public Health (CDPH) standard method, other related testing methods are also acceptable with justification provided by the applicant.

Verification

Laboratory test report(s), and any production documentation.

4.3 **RESOURCE CONSUMPTION**

4.3.1 Energy Management

5 Points (Non-core Criterion)

Manufacturer shall implement effective energy management policies and procedure and/or an energy management programme covering manufacturing operations. The following information shall be documented (as relevant):

- Initiatives taken to reduce energy use and improve energy efficiency;
- Initiatives or requirements for suppliers or contract manufacturers.

Verification

Detailed policies, procedures, programs and/ or plans of energy management issued by the Manufacturer.

4.3.2 Waste Management

5 Points (Non-core Criterion)

Manufacturer shall implement effective waste management policies and procedure and/or a waste management programme covering manufacturing operations. The following information shall be documented (as relevant):

- Initiatives taken to reduce waste generation and improve recovery/recycling of waste;
- Initiatives to recovery of post-consumer and/or pre-consumer waste that can be re-introduced to the manufacturing process;
- Other environmental benefits or constraints associated with waste minimisation objectives and processes.

Verification

Detailed policies, procedures, programs and/ or plans of waste management issued by the Manufacturer.

4.3.3 Raw Materials

5/10 Bonus Points (Non-core Criterion)

Applicant shall provide a detailed breakdown of all materials composing the thermal insulation products for compliance. The product shall be made of the following minimum percentage of recycled content by weight (where applicable):

Product	Limit

(if applicable)	Bonus	Bonus
	(+5)	(+10)
Glass wool	≥50%	≥55%
Mineral Wool (Rock/ Slag Wool)	≥20%	≥35%
Cellulose	≥75%	≥80%
Plastics or synthetic polymers	≥50%	≥55%
Extruded polystyrene	≥20%	≥25%
Polyisocyanurate (plastic component only, e.g. not including facing)	≥10%	≥15%
Aluminium reflective insulation (plastic layer content)	≥20%	≥30%

Verification

Documentation including, but not limited to, product catalogue, MSDS and written declaration.

4.4 ECOSYSTEM IMPACT

4.4.1 Thermal Conductivity

15 Basic Points + 5 Bonus Points (Core Criterion)

Thermal conductivity of the product shall not be more than the following limit:

- 0.038 kcal/mh°C, or 0.044 W/mK at 22°C to 24°C mean, with respect to its insulation rate (heat conduction rate, heat resistance) (15 basic points);
- 0.026 kcal/mh°C, or 0.030 W/mK at 22°C to 24°C mean, with respect to its insulation rate (heat conduction rate, heat resistance) (5 bonus points).

Verification

Documentation including, but not limited to, test reports, product catalogue and MSDS.

4.4.2 Reuse and recycling

5 Points (Non-core Criterion)

Applicant shall provide information on reuse, recycling and biodegradability of the products including but not limited to for compliance:

- Product shall not be impregnated, labelled, coated or treated in a manner preventing post-consumer recycling;
- Information related to the degradation or recycling of products.

Verification

Documentation including, but not limited to, product catalogue, MSDS, and written declaration.

4.4.3 Packaging Requirement

5 Points (Non-core Criterion)

- All packaging shall be able to be reused/recycled in the country;
- All plastic packaging (if applicable) shall be made of plastics that are able to be recycled in the country where the product is sold and shall not contain halogenated plastics;
- Packaging shall not be impregnated, labelled, coated or otherwise treated in a manner, which would prevent or significantly limit recycling (i.e. metallic labels);
- Packaging shall provide the nature of the materials used for the packaging in order to facilitate identification and classification based on European Parliament and Council Directive 94/62/EC on packaging and packaging waste;

Verification

Documentation including, but not limited to, product catalogue, MSDS, and written declaration.

5. SCORING AND GRADING

The points for meeting each criterion stated in Section 4 are summarised in Table 1.

Evaluation criteria	Points	
	Basic	+Bonus
4.1.1 Environmental Management System		+5
4.1.2 Product Information		+5
4.1.3 Serviceability [CORE]	5	
4.2.1 Heavy Metals [CORE]	10	
4.2.2 Hazardous Substances		+5
4.2.3 Flame Retardants [CORE]	10	
4.2.4 Volatile Organic Compounds (VOCs) &	10	
Formaldehyde [CORE]		
4.3.1 Energy Management		+5
4.3.2 Waste Management		+5
4.3.3 Raw Materials		+5/+10
4.4.1 Thermal Conductivity [CORE]	15	+5
4.4.2 Reuse and recycling		+5
4.4.3 Packaging Requirement		+5
	50	+50
Total:	100	

 Table 1: Points to be awarded under the assessment criteria of this Standard

The minimum requirement to be awarded a "Green" Label under this product category is to obtain 50 points by meeting all minimum requirements laid down in the "Core Criteria".

Table 5:Benchmarks for grading

Grade to be awarded	Points required	
Platinum	90 or above	
Gold	80 - 89	
Silver	70 - 79	
Bronze	60 - 69	
Green	50 - 59	
No Label	Below 50	