

Circularity for Fit-Outs and Interiors

22nd October 2025

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Join Us For #CEweek2025

Circularity for Fit-Outs and Interiors - Making it Happen

Wednesday 22nd October 2025

11am-12.30pm

Online Event



Elina Grigoriou



Ray Molony



James Ivin



Katherine Adams

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Today's session

- Please add questions and comments into the chat
- Copies of presentations will be sent after the event
- We are recording the session – for internal purposes only

About Reusefully



Reusefully is a partnership created to provide **expert circular economy advice and support within the built environment.**



We enable the **practical implementation of circular economy thinking** throughout construction and provide evidence-based support for related policy development. We collaborate and work with others who genuinely share this objective and value our commitment.



We address **material and resource efficiency, embodied carbon, design for deconstruction, waste prevention, reuse and recycled content.** Collectively, Reusefully brings together over 100 years of experience, working across small practical projects to large scale R&D.

Our team

- A committed group of individuals who are **passionate about circularity and sustainability**. A mix of experience and youth.
- Currently standing at a team of nine and 3 associates, but with plans for modest recruitment and expansion towards the end of this year.
- A team whose experience and expertise is recognised at national and international level.
- More at www.reusefully.co.uk/our-team

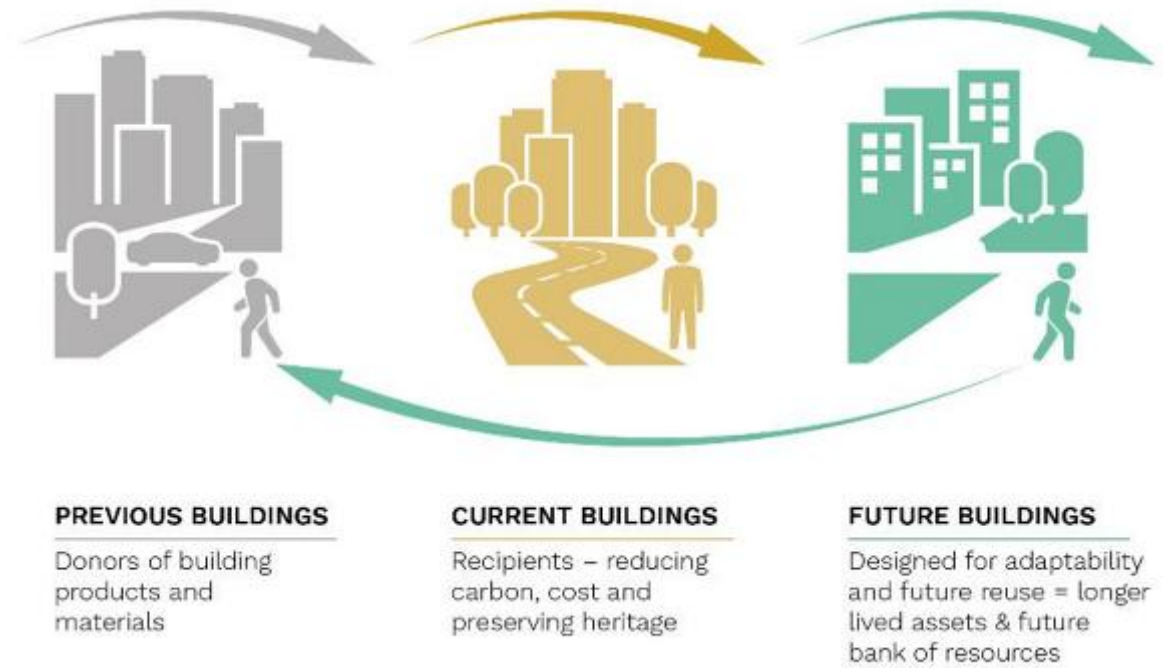


Some typical projects



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Our vision



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The challenge



- The construction and property sectors are hugely wasteful, squandering precious resources when other alternatives could be considered. Around half of total waste arising in most developed economies is due to construction activity and demolition waste.
- Where resources are recycled, they are typically ‘downcycled’ into lower grade and lower value applications.
- **This has a huge impact on the carbon intensity of the sector and is not sustainable.**
- **The sector is traditionally conservative and risk averse.**

Interiors and fit-outs



- We spend **80-90%** of our time indoors
- **300 tonnes** of fit-out waste still goes to landfill each day
- A typical office building is fitted out **10x** over its lifetime
- Office leases are getting shorter
- Fit-outs can cause up to a **third of carbon emissions** over a building's lifetime
- Very fast turnaround

Embodied carbon and circularity

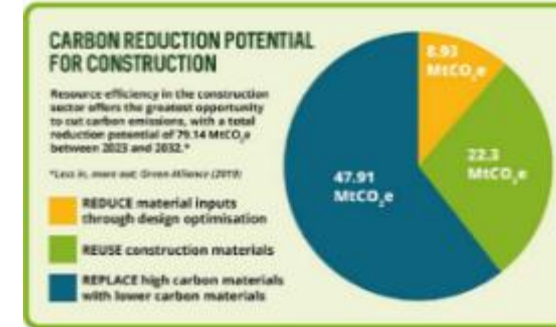
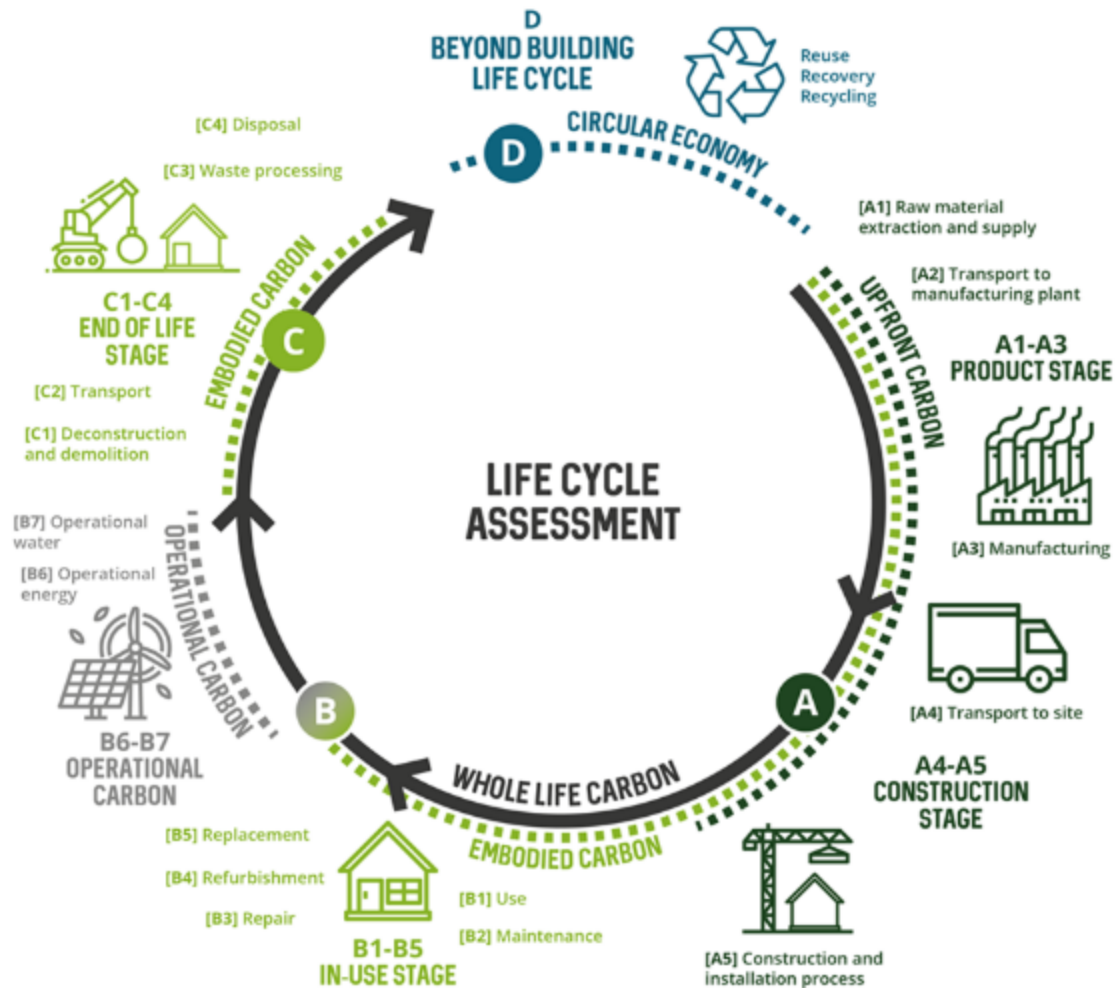
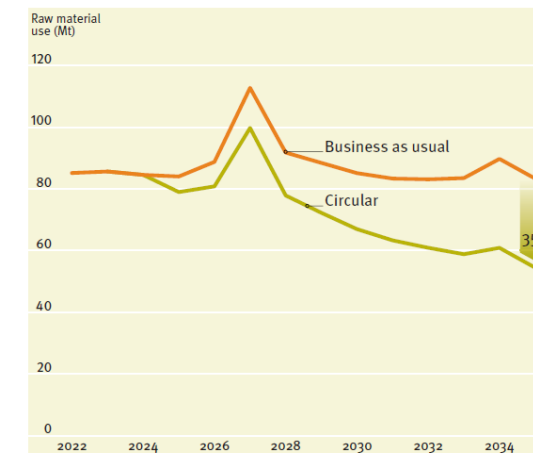
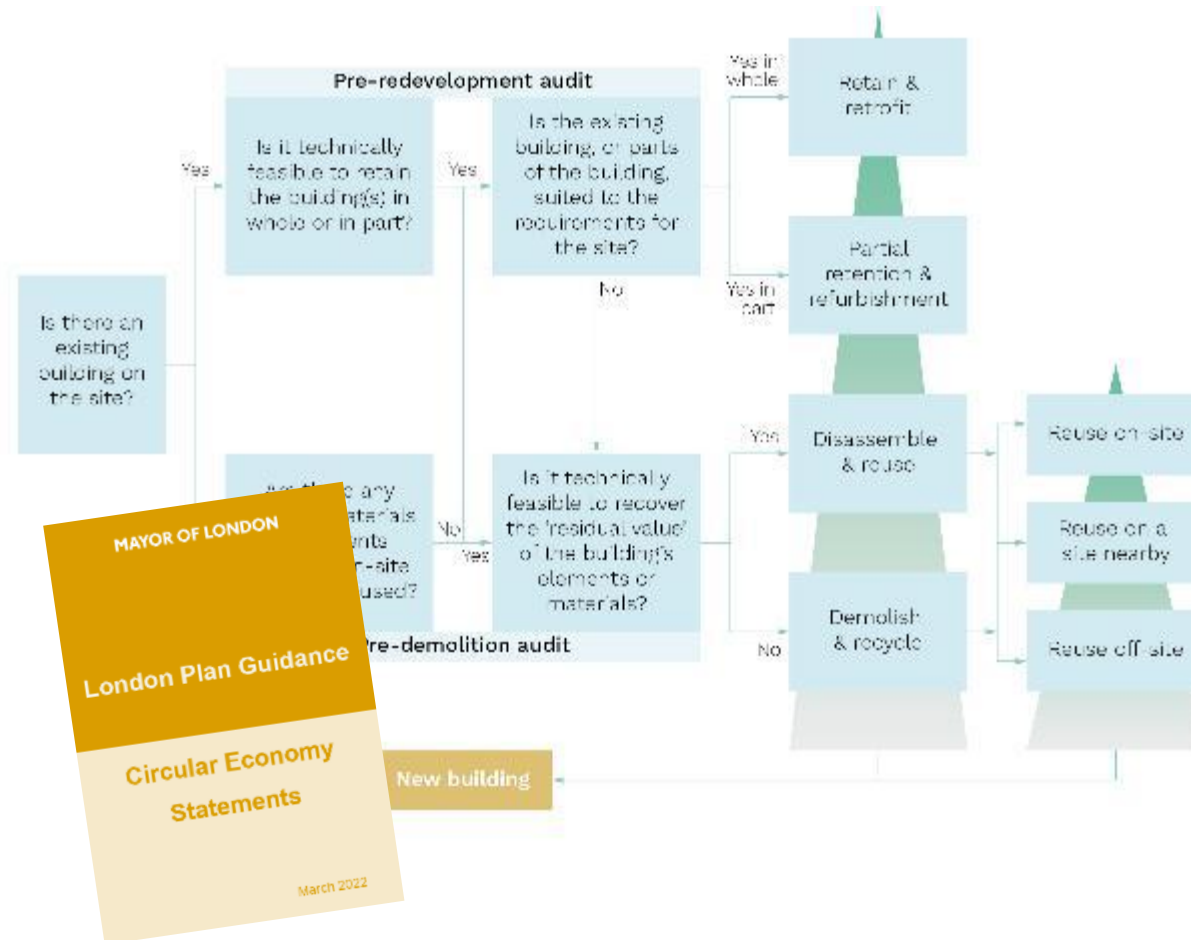


Figure 2: Opportunities from increasing resource efficiency in construction

Raw material use in construction could be cut by a third by 2035



Planning



City of London's 'retrofit first' policy to come into force

22 JANUARY 2025 • BY WILL HURST



Planning for Sustainability Supplementary Planning Document (SPD)

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Clients

Great Portland Estates is vowing to use at least 40% of reused materials on new construction sites and major refurbishments.



1,700 tonnes of recycled steel will be used by main contractor Mace at 30 Duke Street.

The developer will start measuring the percentage of reused materials on jobs from next April using its newly developed 'Circularity Score'.



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Others...



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Circularity for Fit-Outs and Interiors



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Some Better Examples

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The Waterman Building, London

Image: Martina Ferrera

The original structure of the Waterman Building, in London's Farringdon district, was retained, and materials from the strip-out/refurbishment were reused in the new scheme. This included the reuse of raised access flooring (saving 255 tonnes of upfront carbon), the reuse of timber flooring, the repurposing of glazing into worktops and the rehoming of furniture and light fittings with over 700 individual pieces donated to local charities. Vintage fittings and furnishings were specified in keeping with the building's age and character. Read More by scanning the QR code.



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White Arkitekter, London

When relocating its London office from Shoreditch to Farringdon in May 2023, White Arkitekter decided to commit to a circular economy fit-out of its new home on Bastwick Street. The Scandinavian architecture firm aimed to reuse materials as much as possible to reduce waste and to design the new offices with a minimum embodied carbon and operational energy approach. Whilst the process took longer than a non-circular fit-out, achieving an 80% material re-use target set an impressive sustainability precedent. It also saved an estimated 40% on costs, compared with an all-new office overhaul, cutting the project budget. Material sourcing challenges included finding the right size of partition glazing for acoustic separation between meeting rooms, whilst 80% of the furniture in the new office was reused from the old office. Read More by scanning the QR code.



The background is a solid dark green color. Overlaid on this are numerous thin, light green lines that form a complex web of overlapping circles and arcs, creating a geometric pattern that resembles a stylized globe or a network diagram.

A Vision for a More Circular Built Environment for the Future

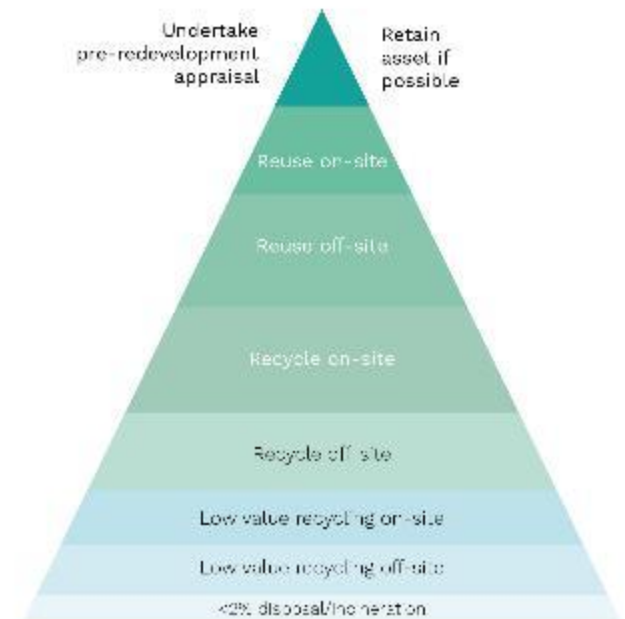
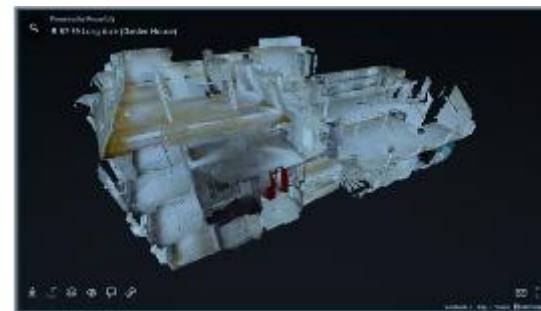
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Material Audits

Assessment to determine what components and materials can be recovered at end-of-service life in an existing building

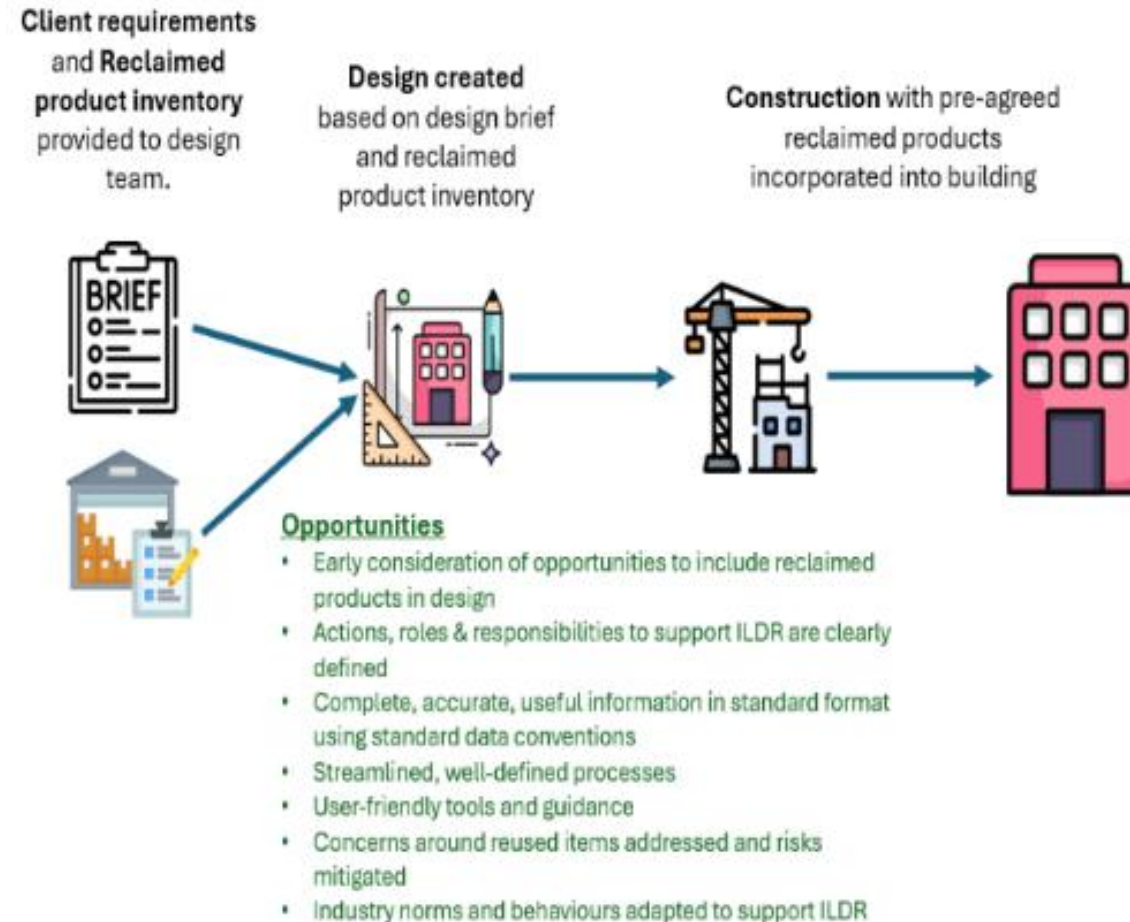
- Pre-demolition audits
- Pre-refurbishment audits
- In-use material audits (e.g. to optimise asset management)
- Now more properly known as **Pre-Deconstruction Audits**

A history of pre-demolition audits in the UK



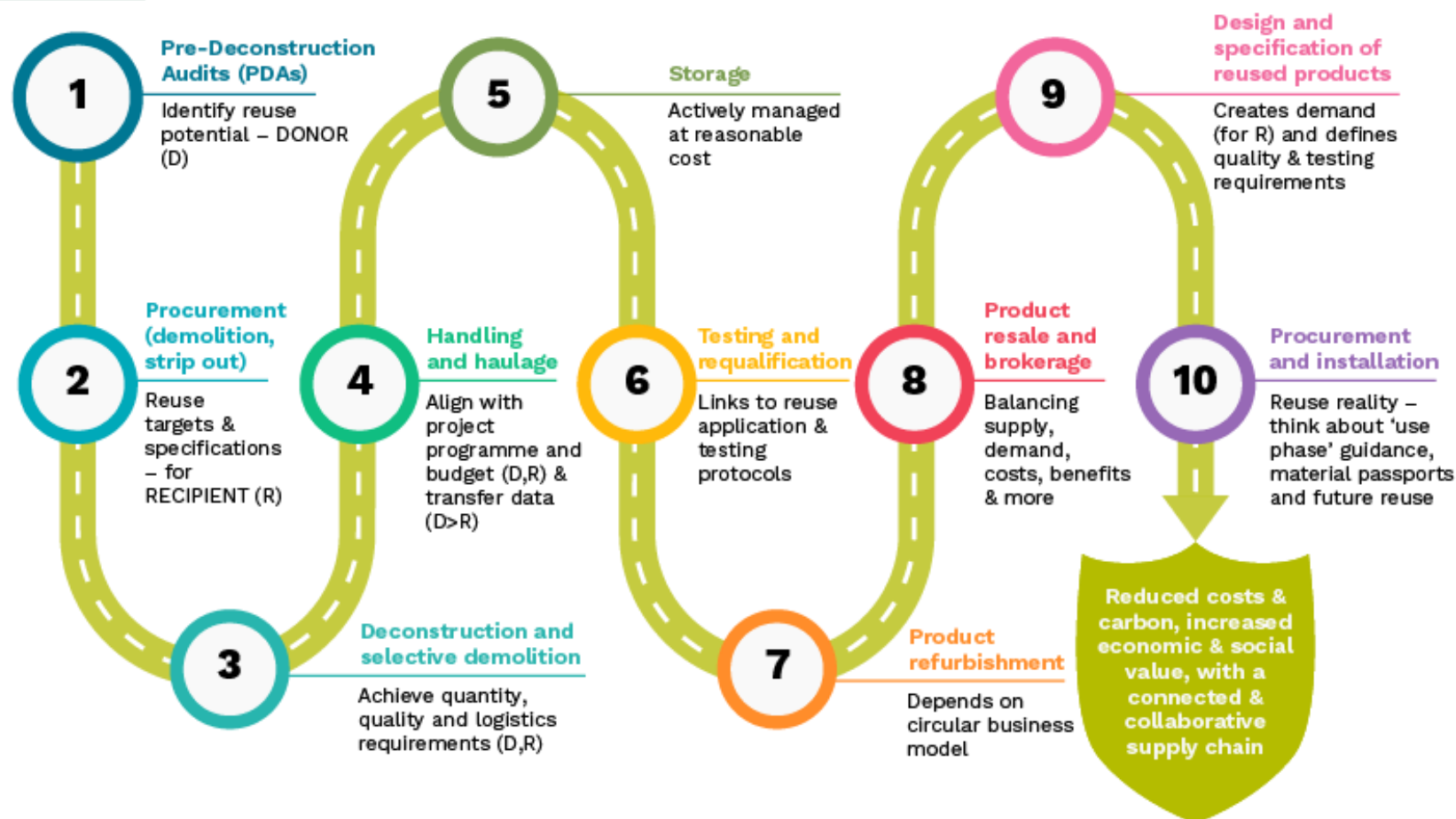
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Inventory-led design for reuse



Implementing the 'Reuse Pathway'

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REUSE PATHWAY ENABLERS

Warranties and insurance

Compatible with client / recipient requirements and level of risk

Information and guidance

Developed by consensus e.g. standards, templates, quality protocols

Data systems and platforms

Accessible, harmonised and interoperable

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Creative reuse



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Design for disassembly and adaptability



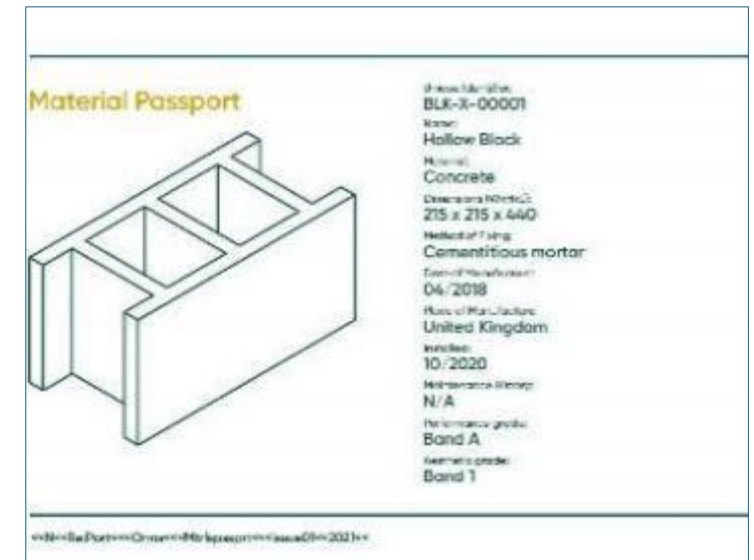
ISO 20887:2020 outlines 16 core principles for Design for Disassembly and Adaptability (DfD/A), aimed at improving sustainability in buildings and civil engineering works. These principles are grouped into two categories: disassembly and adaptability.

Design for disassembly and adaptability (DfD/A) – Principles, requirements and guidance

- **Adaptability Principles:**
 - Versatility, Convertibility, Expandability
- **Disassembly Principles:**
 - Ease of access (components & services), Independence, Avoidance of unnecessary treatments & finishes, Supporting reuse (circular economy) business models, Simplicity, Standardisation, Safety of disassembly
- **Other sections:**
 - Developing the client brief, Design Strategies, Levels & Scope of analysis
 - Documentation and information (such as Deconstruction plans, Material passports)
 - Continuing implementation of DfD/A(through to eventual end of use/decommissioning)

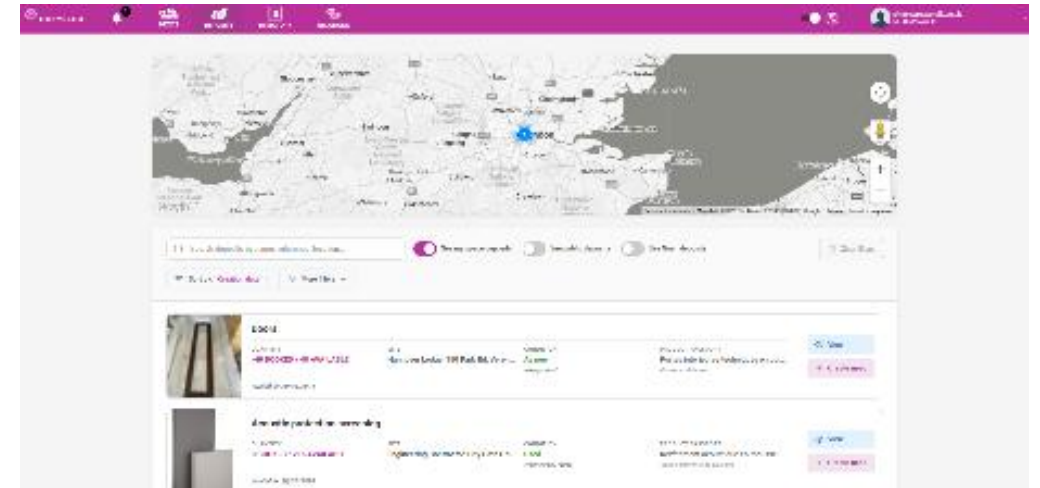
Material passports

- Digitally-stored information about objects to support circularity throughout lifecycle
- Live – updated at key points throughout lifecycle
- Helps solve problem of data availability / transfer
- Can be product/component-level and building-level
- Lots of activity in this space recently
 - CEN TC 350 task group – passports and logbooks for products & buildings
 - Orms material passports working group
 - Circuland / Waterman Passports Protocol
 - UCL passport alignment project
 - Madaster commercial platform
- British Land now require product/component passports
- EU will soon require **digital product passports** and **digital building logbooks** (essentially a building passport)



Material reuse platforms

One ring to rule them all?



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Industry action



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Circular Works

- Commercial office fit-outs create **four times** more carbon than the initial construction. We're committed to changing that
- Circular Works is a collaboration between Reusefully, Blackstone Strip Out and Lumybel



Circular Works



- Our combined expertise and experience means that we take projects **from concept to completion**, creating spaces that are built for purpose and practicality, while minimising their impact
- **info@circularworks.co.uk / circularworks.co.uk**

Circularity for fit-outs and interiors – a vision

- **Clients and design teams** need to play a bigger role
- Be **inventive** and **open-minded**
- We need to **rethink warranties**
- Realise the **benefits**
- More **material passporting and reuse sharing**
- Rethink the **business model - leasing**
- Understand the **real costs** of reuse - and cost savings
- Manufacturers need to step up, **embrace take-back**
- Use **new technology**
- Start with the **quick wins**
- **Share, share and share!**

Thanks for Listening

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Offices Environmental 2.0

Briefing Session on: scheme introduction, aims and strategy

What is SKArating?

SKArating®

SKArating®

Project: Offices Environmental 2.0 Training Offices Environmental 2.0 Design stage

Project details Scope Assessment Rating Report

1 | Pages 2 | Pages all measures

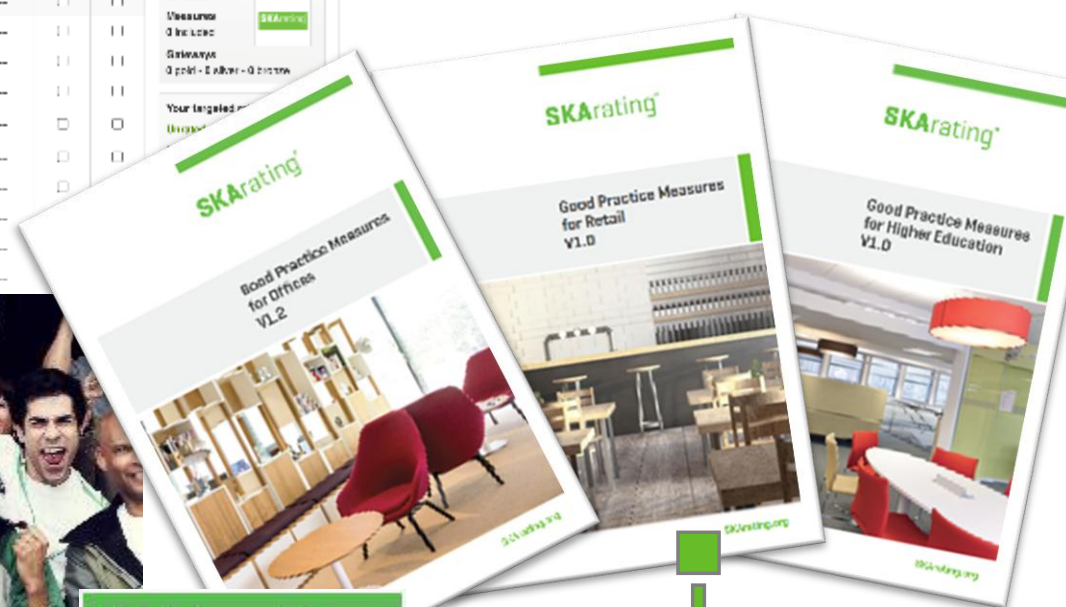
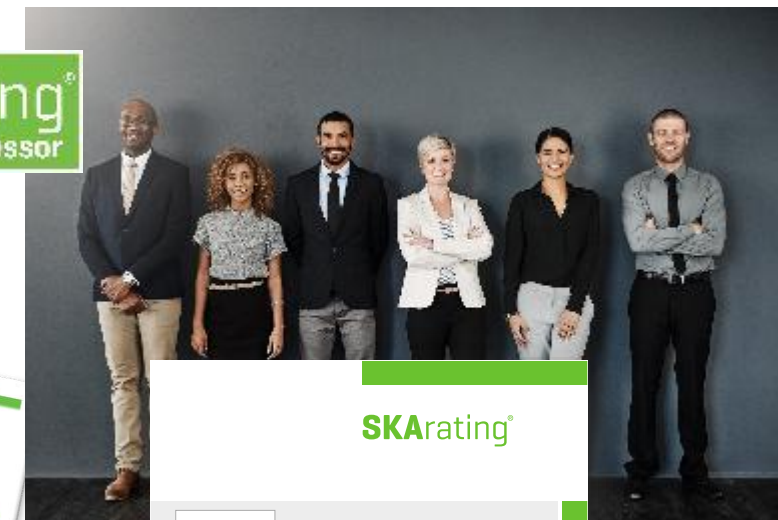
ID	Measure	Issue	Owner	Targeted	Included	Options
450	Branded Custom Identity (BCI)	Multimedia	---	1	1	Review and approve
452	Procurement tool	Procurement	---	1	1	Finish and mark as complete
456	Design for Whole Life Procurement Optimisation (DWLO)	Procurement	---	1	1	
458	Index	Ecology	---	1	1	
459	Analysis	Multimedia	---	1	1	
460	Self-organising design workshops	Project Delivery	---	1	1	
461	Knowledge Engineering	Multimedia	---	1	1	
462	Resource Management - delivery and content change	Resource Management	---	1	1	
463	Knowledge Management	Resource Management	---	1	1	
464	Project delivery management	Project Delivery	---	1	1	
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Your current rating is **Bronze**

Your targeted rating is **Bronze**



SKArating®
accredited assessor



SKArating®
competent professional



SKArating®

Fit-out Sustainability Assessment

This is to certify that

42 Acacia Avenue
Anytown
AT1 2AW
United Kingdom

Has achieved the SKA Rating of
Bronze

SKArating®
bronze

This certificate has been produced using SKA Rating for Offices version 1.0

Key benefits



Provide an effective and robust system to report environmental impacts.



Reduce in real terms the negative impact of fit-out project delivery, support Net Zero Carbon & Circularity targets.



Create systemic change in design and delivery of fit-outs.



Create better Value for clients, true savings and better spaces in operation.



Enable ESG robust and credible reporting and align with new regulatory requirements and anti-greenwashing.



Increase asset value and retain value over time and through multiple life cycles.

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Our Vision



To create Sustainable environments; **Environmental, Social and Economic impacts.**



To expand into **all sectors** of fit-out and refurbishment, and other **countries/geographies.**



To connect and align roles, organisations and initiatives along the **full life-cycle** of spaces.

Three Pillars of Sustainability



Offices scheme overview

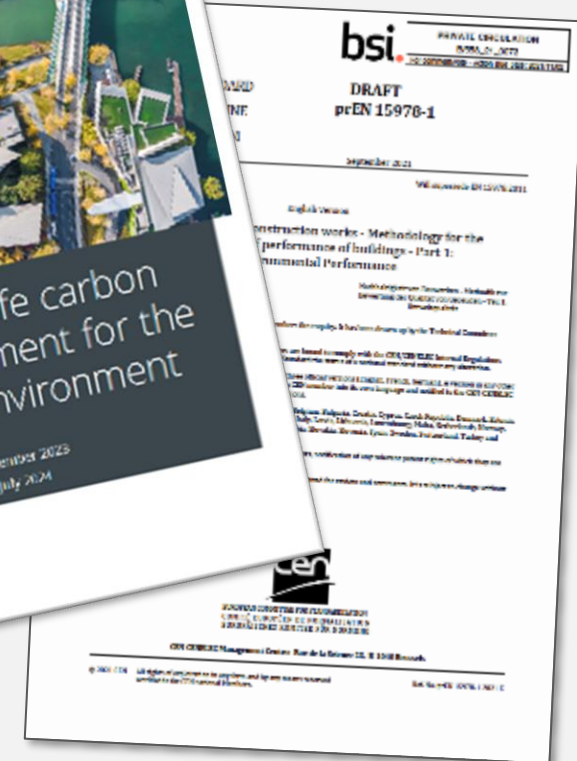
- 83 Good Practice Measures
- 9 impact categories
- Free GPMs and online tool use
- 100% of project works in scope
- ...benchmarking against industry good practice.



Net Zero Carbon alignment



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Energy Use Intensity (EUI)

Criteria

The fit out should be designed to achieve the relevant energy use intensity (EUI) targets included in the current UK Net Zero Carbon Buildings Standard (UKNZCBS) for the year that the fit-out project will commence construction.

Where the base build construction has commenced **after 1 January 2025**, the fit-out shall comply with the limits in Table OE-1 of the Annex A of the UKNZCBS.

Where the base build refurbishment has commenced **after 1 January 2025**, the fit-out shall comply with the limits in Table OE-2 of Annex A of the UKNZCBS.

Where the fit-out is being installed in a building that was constructed or refurbished **before 1 January 2025** the fit-out shall achieve the limits in Table OE-3 of Annex A of the UKNZCBS.

The limits apply to the space as-fitted out, and take into account performance of the building fabric and central building services.

For example, in UKNZCBS Pilot Version rev2, Annex A Table OE-3 Existing Building with Stepped Retrofit

New fitout or refurbishment commencement after 1 January

	2025	2026	2027
General office space (including receptions, atria, toilets, circulation etc.)	150 kWh / m ² NIA / year	145 kWh / m ² NIA / year	140 kWh / m ² NIA / year
Call centre space	259 kWh / m ² NIA / year	253 kWh / m ² NIA / year	247 kWh / m ² NIA / year
Trading floors	298 kWh / m ² NIA / year	292 kWh / m ² NIA / year	284 kWh / m ² NIA / year

Energy use intensity forecasts must be calculated as detailed in GPM D66 Energy Modelling otherwise this measure cannot be achieved.

If the assessment is part of a whole building Net Zero Building Standard assessment and there is a commencement year established as part of the wider assessment of works, this can be used instead.

Fit-out benchmark & assessment tool

Issue

Energy & CO₂

ID

D85

Rank

01

Version

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Page 1 of 3

Embodied Carbon Intensity (ECI)

Criteria

The project is designed and delivered to achieve the Offices reportable works upfront embodied carbon intensity (ECI) limits in line with the UK Net Zero Carbon Buildings Standard, as applicable for the year in which the project commences on site. Example of limits targeted and reported as delivered at handover for the project:

Project commenced **1 January** and any time in the year:

	2025	2026	2027
General office space*	260 kgCO ₂ e / m ² NIA	250 kgCO ₂ e / m ² NIA	235 kgCO ₂ e / m ² NIA

*including receptions, atria, toilets, circulation etc.

Embodied carbon intensity limits must be calculated as detailed in D89 Embodied carbon assessment, otherwise this measure cannot be achieved.

If the assessment is part of a whole building Net Zero Carbon Buildings Standard assessment and there is a commencement year established as part of the wider assessment and works, this can be used instead.

Scoping

This measure is in scope if the client and team decide to target it and claim Net Zero alignment performance for the project.

Assessment

At design stage: review the LCA report to ensure it meets the commencement year limits during RIBA stages 2 and 4. The RICS WLC methodology template must be used for the report required at each stage assessment.

At handover stage: review the Stage 6 handover actuals LCA report and ensure it meets the criteria.

At occupancy stage: if this measure was achieved at handover stage, this measure will be considered achieved by default at this stage.

Rationale

The aim is to reduce the embodied lifetime environmental impacts of materials in line with science-based targets which can be measured during a life cycle assessment (LCA). A Whole Life Carbon assessment takes account of environmental impacts over the lifetime of a

Fit-out benchmark & assessment tool

Issue

Materials

ID

D90

Rank

4

Version

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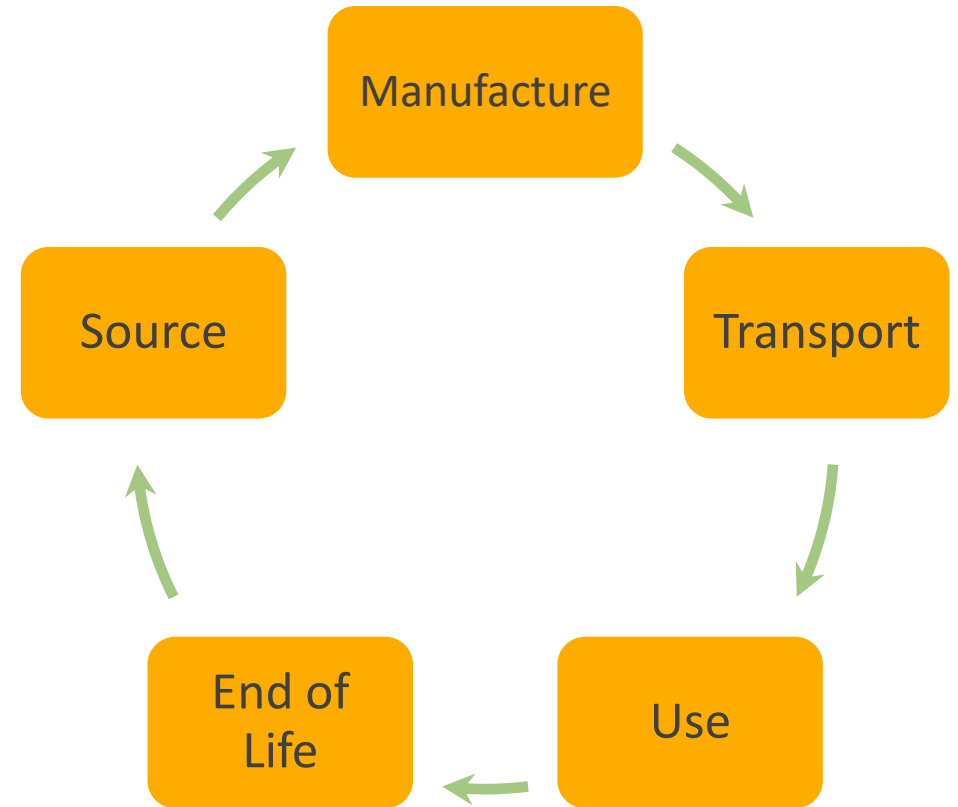
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100% Circularity

- Circular Design & Circular Procurement
- Ongoing lifting of circularity performance baseline
- Upfront - in use – downstream
- Links to GHG reductions
- Systemic change
- 'Golden Thread'



Pre-refurbishment audit

Criteria

An experienced member(s) of the design team (or other competent person) is to carry out a pre-refurbishment audit to identify opportunities for retaining and reusing existing products and materials from the proposed refurbishment, and existing space where applicable. The audit must cover the key refurbishment material streams including:

- ceiling systems (see also D13)
- wall finishes (see also D34)
- floor finishes (see also D14)
- desks and tables (see also D15)
- chairs (see also D16)
- storage units (see also D17)
- other loose furniture (see also D18)
- raised access floors (see also D74)
- solid and Glazed partitions (see also M08)
- doors (see also D48)
- joinery and kitchen fittings (see also D34)
- mechanical and electrical services (see also D68 and D46)
- light fittings, controls (see also D38, and D46)

And, the schedule must include a figure of the actual number of items/m²/volume/tonnage of material along with an estimate of the waste quantities if all material were discarded.

Scoping

This measure applies to all projects. It includes existing client spaces where furniture is used and owned already.

Assessment

At design stage: a completed pre-refurbishment audit covering the key refurbishment waste streams outlined above, is carried out early in the design process (i.e. during Concept Design stage, equivalent to RIBA stage 2) by an experienced designer or other competent person, which identifies opportunities for retaining and reusing existing materials.

At handover stage: this is not re-assessed at this stage, and it maintains the same status as achieved, or not, during the design stage.

At occupancy stage: this measure is not assessed. The measure is achieved by default; if it was achieved at handover stage.

Fit-out benchmark & assessment tool

Issue

Resource
Management

ID

D72

Rank

5

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Fixed Asset Tagging and Register

Criteria

1. An identity tag is added onto all fixed assets of the project. This is to be applied on each product and item that is installed or adapted in the project's scope.

And,

2. An asset register is setup, or updated where one already exists, to record/link all asset identity tags and is available by the occupant's team(s) that work on day-to-day operations and facility management. Product / material information should be stored in an accessible digital location for use by space/building managers. This could be an online asset register, a Computer-aided Facilities Management (CAFM) system, BIM or other form of database.

And,

3. The asset tag should allow users to source the following information on the product / material:
 - material type
 - manufacturer
 - warranty details
 - installation date
 - installation location
 - product or system Environmental product declaration or Product Circularity Data Sheet
 - material / product data sheet
 - deconstruction guide
 - end-of-life reuse and / or disposal requirements

The criteria apply to all products, systems and materials that have been targeted in an assessment and product circularity and LCA information has been generated. It is optional good practice for projects to request for the rest of the data from suppliers.

Scoping

This measure applies to all fit-outs.

Assessment

At design stage:

1. Obtain details of the asset tags being selected and confirm their application on each asset item is included in the project's scope of works, and

Fit-out benchmark & assessment tool

Issue

Resource
Management

ID

D84

Rank

80

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Light fittings

Criteria

1. All products are installed fully demountable and upgradeable with no damage to luminaire and supplied with a demountability guide.

And,

2. where existing fittings are less than 2 years old, 50% of fittings by quantity are retained.

And,

3. largest product number of fittings in scope, or a minimum of two key luminaire types on the project, are regenerated or re-used products (Net Zero aligned approach) or supplied from a manufacturer with a closed-loop take-back scheme, and in all cases supplied with a Product Circularity Data Sheet (PCDS),

And,

4. where new, all products are compliant with the following criteria:
 - a. are supplied with an Environmental Product Declaration or LCA study written in accordance with ISO 14025 standard, TM65, or TM65.2, and
 - b. where products align with one of the listed luminaire types below, they must have a maximum upfront A1-A3 carbon limit as follows:
 - Suspended luminaire: 6 kgCO₂e per unit (Net Zero aligned approach) or 50 kgCO₂e per 1500mm long unit (good practice approach) and allocate pro rata for other lengths
 - Downlights, all types: 13 kgCO₂e per unit (Net Zero aligned approach) or 50 kgCO₂e per unit (good practice approach).

And,

5. for projects over £5m build cost, the below additional circularity criteria apply for the larger luminaire type by quantity or a minimum of three luminaires of varying quantities:
 - a. have a Cradle to Cradle Certified® Bronze or higher certificate, or
 - b. are manufactured for Circular performance and undertaken a circularity assessment according to TM66.

Scoping

Any new and reused (relocated or adapted) architectural and integrated light fitting as listed below is in scope:

- pendant / hanging / suspended light fittings / track systems

Fit-out benchmark & assessment tool

Issue

Materials

ID

M32

Rank

45

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Page 1 of 4

Decorative and other light fittings

Criteria

1. All products are installed fully demountable and upgradeable with no damage to luminaire and supplied with a demountability guide.

And comply with either criteria 2 or 3 below in each instance;

2. largest product (by quantity in number) or a minimum of two luminaire types on the project, are re-used products (Net Zero aligned approach) or supplied from a manufacturer with a closed-loop take-back scheme, and in all cases supplied with a Product Circularity Data Sheet (PCDS),

Or,

3. where new materials are added or repairs made, 50% of the number of fittings in scope are compliant with at least one of the following criteria:
 - a. are supplied with an environmental product declaration, written in accordance with ISO 14025 standard, TM65, or TM65.2,
 - b. have a Cradle to Cradle Certified® Silver or higher certificate;
 - c. the product assembly or system (excluding suspended tiled products and systems) are manufactured for circular performance, are supplied with a Product Circularity Data Sheet (PCDS), and are designed with:
 - at least 60% (measured by mass), post-consumer recycled, rapidly renewable or otherwise compliant content, and
 - at least 90% (measured by mass) of components that can be re-used or recycled at end of life, and
 - manufactured in a factory that has achieved and maintains an Environmental Management System in accordance with ISO 14001, or ISO 14005 or Eco-Management and Audit Scheme (EMAS).

Where not already covered by the above;

- d. if fabrics or fabric-containing elements, the products must comply with the criteria for fabrics found in any of the furniture measures M19-M21
- e. if paints or coating elements not already covered in above criteria, the products must comply with the criteria of measure M14 Paints and coatings.

Fit-out benchmark & assessment tool

Issue

Materials

ID

M33

Rank

79

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Resource Management – light fittings

Criteria

1. At least 50% (measured by number of items) of removed and relocated light fittings are:
 - Directly reused on this or another project with or without upgrades to the fitting; or
 - Returned to a manufacturer via a take back scheme for closed-loop recycling.(Net Zero aligned approaches).

And,

2. Each re-used or take-back scheme product, is supplied with a Product Circularity Data Sheet (PCDS).

The remaining light fittings must be diverted from landfill in line with The Waste Electrical and Electronic Equipment Regulations 2013 (WEEE Regulations).

Scoping

This measure is in scope if existing light fittings as listed below, are relocated or removed:

- Architectural and integrated fittings
- Decorative or non-integrated light fittings
- Plug-in and task light fittings

Note: for any re-used products, project teams should be mindful of the operational energy efficiency criteria under measures E04 Energy efficient light fittings and D87 LCA Impact comparison analysis measures.

Assessment

At design stage:

1. Verify the listing of the products in the project's pre-refurbishment audit and RMP tracker.
2. Obtain a copy of the PCDS or equivalent material passport for any equipment reused on this or another site.

At handover stage, collate for all products:

1. Verify that the project's RMP tracker and SWMP still verify the criteria is achieved.
2. Obtain delivery notes or other confirmation of receipt for reused products and that these correspond to the RMP tracker.
3. Verify that all remainder products have been managed in compliance with the WEEE Regulations.

Fit-out benchmark & assessment tool

Issue

**Resource
Management**

ID

D38

Rank

32

Version

**SKArating for
Offices 2.0**

If you would like to comment
on this measure please email
support@skarating.org

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Page 1 of 3

Product Circularity Data Sheet (PCDS)

[Standards](#) [Sectors](#) [About ISO](#) [Insights & news](#) [Taking part](#) [Store](#)



ISO 59040:2025

Circular economy — Product circularity data sheet

Published (Edition 1, 2025)

[Read sample](#)

Language: English

CHF 177

Format: ☒ PDF + ePub ☐ Paper

[Add to cart](#)

Convert Sales from USD to your currency

Abstract

This document establishes a general methodology for information exchange supporting the interoperability of circular economy related information, based on the use of a product circularity data sheet (PCDS).

This document specifies requirements for completing a PCDS by an organization, regardless of its type, size and nature, when acquiring or supplying products in order to permit the exchange of circular economy related information about those products, without disclosing confidential business information.

This document also specifies requirements for the reporting format to be used when creating a PCDS template, based on the selection and use of various product circularity statements, according to the characteristics of the product.

In addition, this document gives guidance on managing and sharing a PCDS, as well as guidance on creating a PCDS template.

General information

Status: Published
Publication date: 2025-02
Stage: International Standard published [\[63.50\]](#)

Edition: 1
Number of pages: 45

Technical Committee: [ISO/TC 323](#)
[ICS: 03.100.01](#) [13.020.20](#)

ISO 59040 update

Climate action

This standard contributes to

[Achieve climate neutrality](#): Carbon neutral and net zero emissions: GHG emissions /mit action:



 **PUBLISHED**

Key figures

MATERIAL INPUTS 	DISCLOSED SUBSTANCES	99-100%
	NO HAZARDOUS SUBSTANCES	TRUE
	REUSED MATERIALS	0%
	RECYCLED MATERIALS	50-75%
PRODUCTION 	RENEWABLE MATERIALS	10-25%
	RENEWABLE ENERGY	0-10%
	RECIRCULATED WATER	0%
	REPAIRABLE	TRUE
LIFETIME 	DEMOUNTABLE	95-99%
	DISASSEMBLABLE	99-100%
	REUSABLE	TRUE
	REFURBISHABLE	TRUE
END OF LIFE 	RELEASED IN ENVIRONMENT	0-10%
	DISMANTABLE	99-100%
	REMANUFACTURABLE	FALSE
	RECYCLABLE	99-100%
BENEFITS 	COMPOSTABLE	FALSE
	IMPROVE AIR	FALSE
	IMPROVE WATER	FALSE
	STORE ENERGY	FALSE

Offices Environmental 2.0 – Key aims



Alignment with UK Net Zero Carbon Buildings Standard



Awarding only of Circular performance – diversion from landfill is standard practice



Wider scope around Resource and Asset management



Removal of Wellbeing category – Retention of health safeguarding

Contact us

By email at Support@skarating.org

By phone at +44 (0)300 30 20 752

Register for newsletter updates via our main website
www.skarating.org

Through social media...

Join the SKArating LinkedIn Group and Page

The background is a vibrant green with a subtle grid pattern. Overlaid on this are several 3D-style geometric shapes and arrows. A large, bright green arrow points towards the bottom-left. Other shapes, including a large 'L' and various smaller arrows, are rendered in a lighter, semi-transparent green, creating a sense of depth and movement. The overall aesthetic is modern and dynamic.

Thank you



END
CAT A
LIGHTING
WASTE





Key stats

- 100,000 luminaires are removed in the UK every week

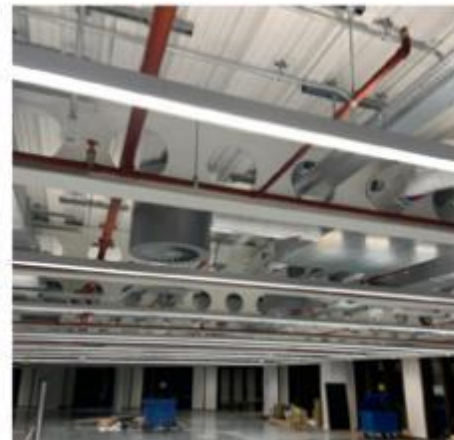
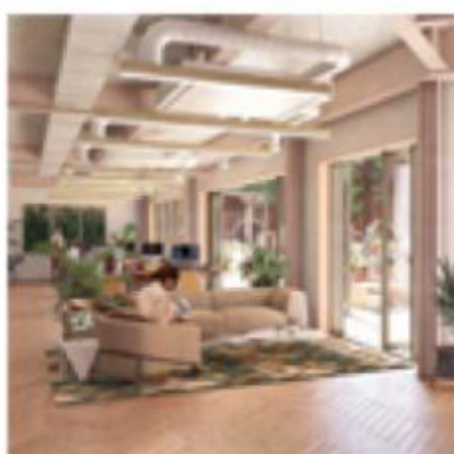
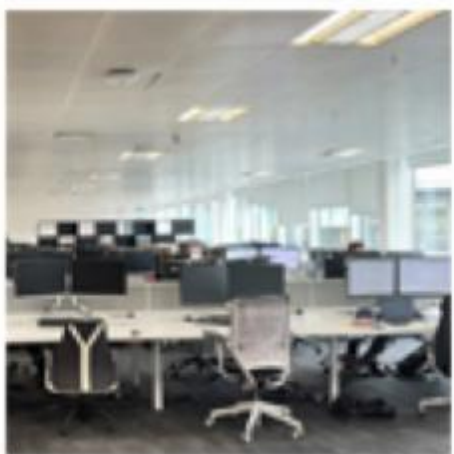
Key stats

- 100,000 luminaires are removed in the UK every week
- 5 million annually

Key stats

- 100,000 luminaires are removed in the UK every week
- 5 million annually
- 7% currently recycled





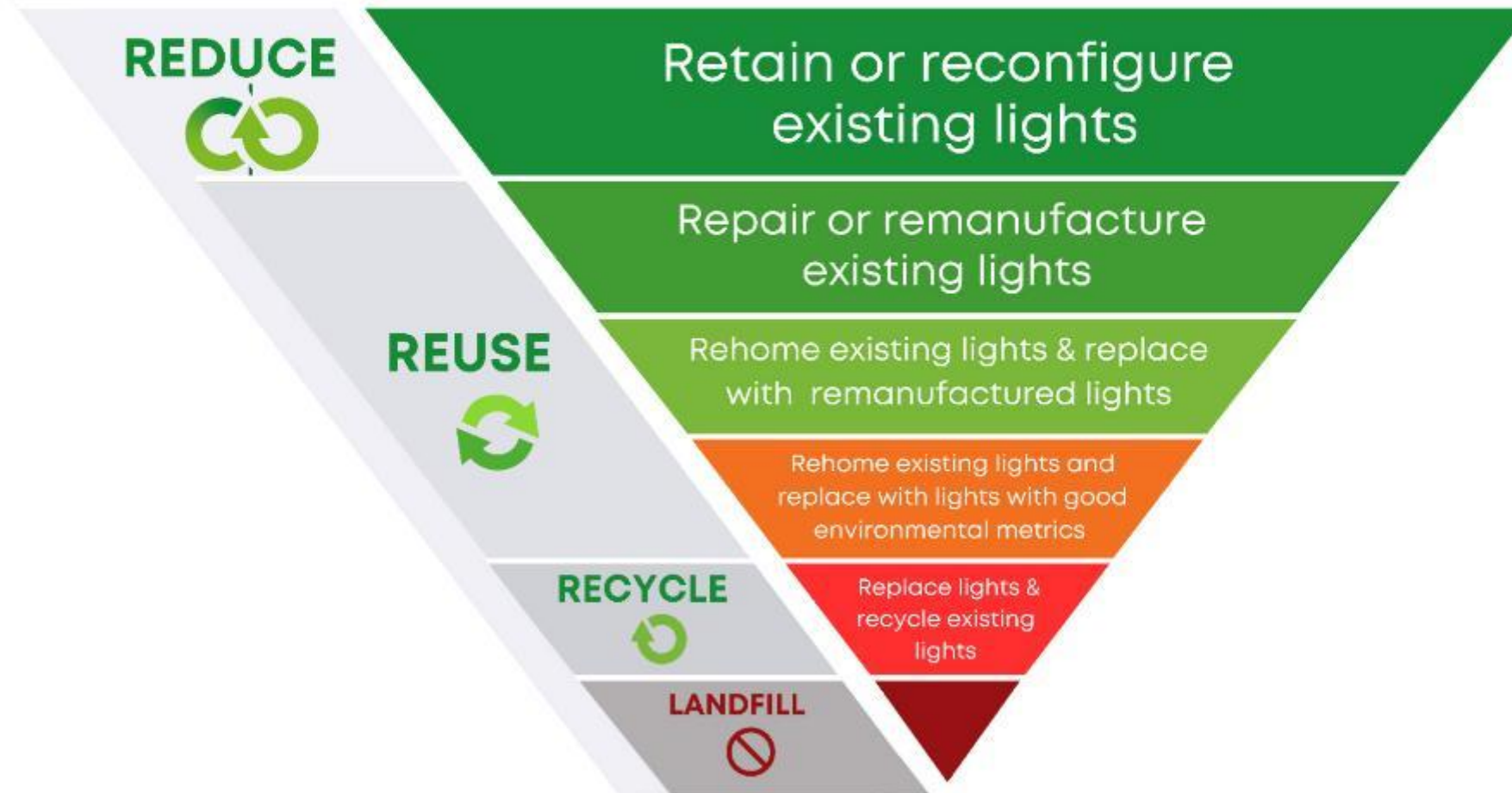
REDUCE
REUSE
RECYCLE



A hand-drawn circular arrow diagram on a chalkboard. The words "REDUCE", "REUSE", and "RECYCLE" are written in green chalk in the center of the circle. A hand is holding a piece of white chalk, pointing at the right side of the circle.

ReCOlight

Hierarchy of Lighting



REDUCE
REUSE
RECYCLE



A hand-drawn circular arrow diagram on a chalkboard. The words "REDUCE", "REUSE", and "RECYCLE" are written in green chalk in the center of the circle. A hand is holding a piece of white chalk, pointing at the arrow.

REDUCE



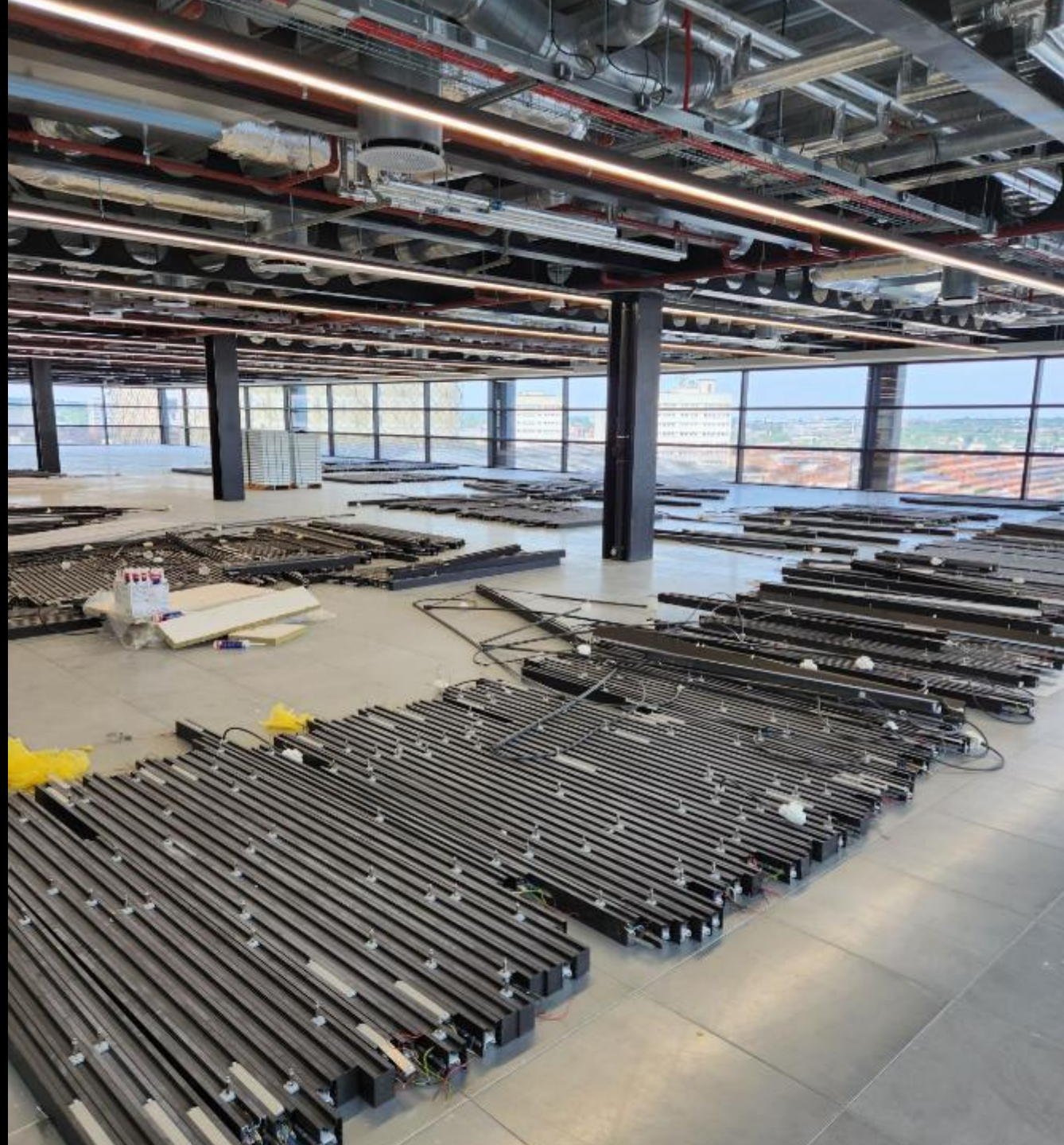






↪ REUSE ↩







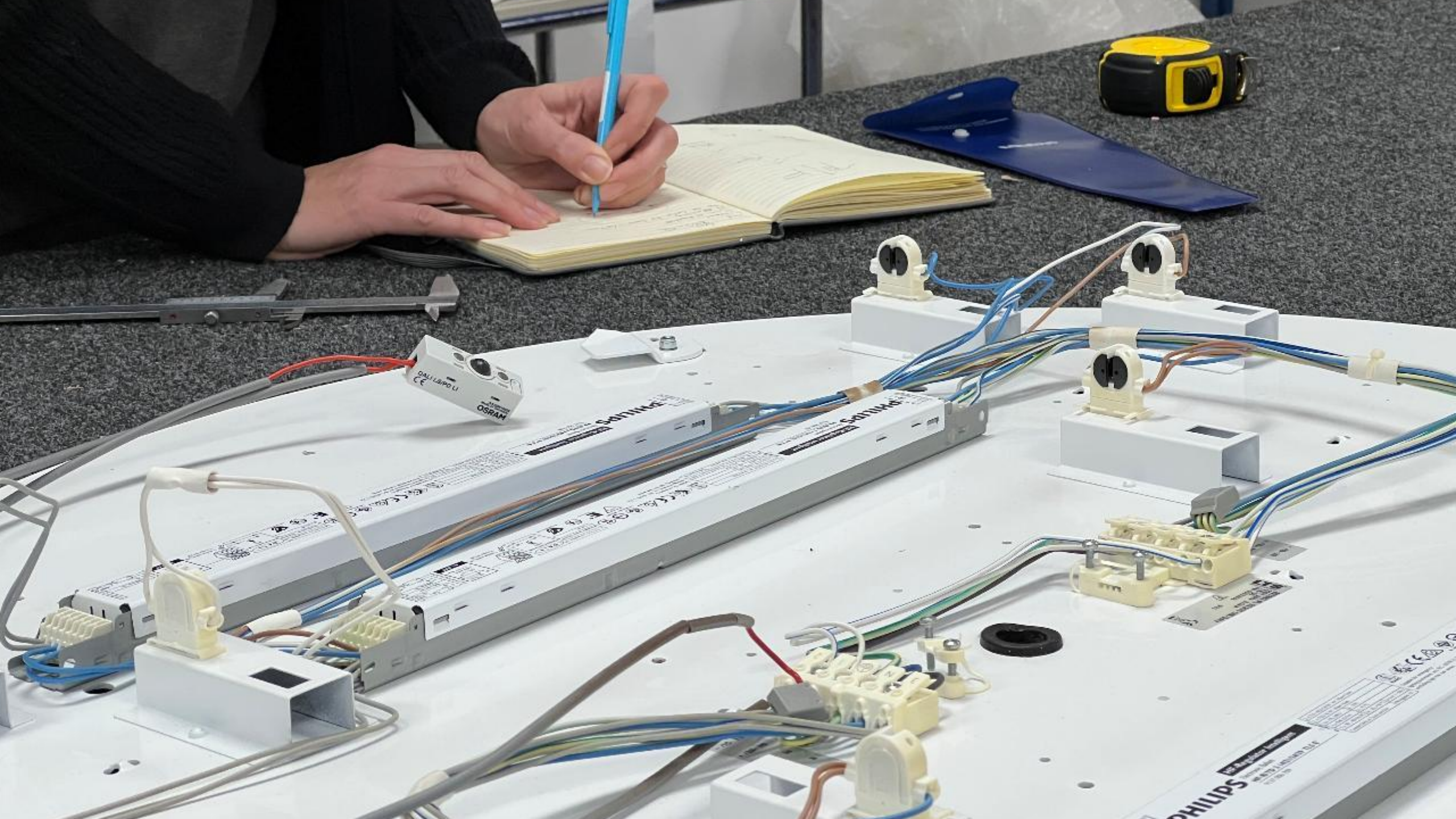






Facilitating reuse







SMART
SYSTEMS **UK**

REVITALITE

ASD
LIGHTING

LIGHT **PROJECTS**
EVOLVE


EGG
LIGHTING


PROLIGHT
DESIGN

THE
REGEN
INITIATIVE 


DRK
LIGHTING
LIGHT THE FUTURE


FUTURE
DESIGNS


TROJAN
INTELLIGENT LIGHTING SOLUTIONS

LLUMARLITE
Lighting Solutions

ARTECH
LIGHTING



8 Year
Warranty















Whitecroft
lighting

Aisle AG

Model: GPT
Size: 1000L



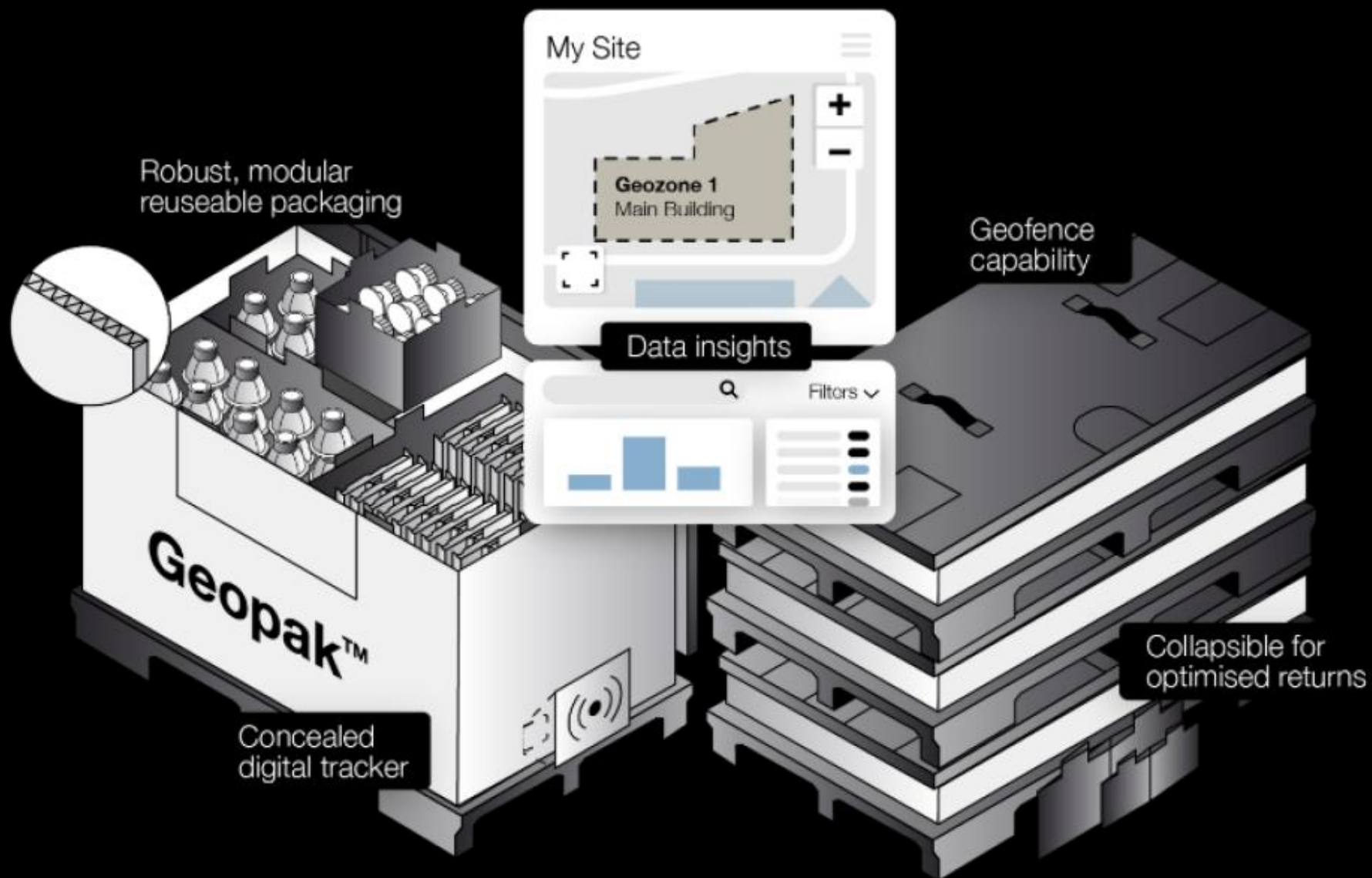
Geopak™

The reusable packaging solution with GPS location tracking

**Please don't
drink the water**

Approximate weight
when full: 100kg

Weight: 100kg
Capacity: 1000L
Size: 1000mm x 1000mm x 1000mm
Gross weight: 110kg











1123241760ATL00204





TRIDONIC

HQ: Faerbergasse 15 / 6851 Dornbirn / Austria
Sleg Oak Lane / Basingstoke / RG24 0WF / UK
LC-25/50-350/230 04a NF h16 EX
Art. No. 28004048
Constant Current LED Driver
Digital Dimmable 1-100%

DALI
DSI



PRI

DALI
DSI

SwitchDIM
N controlFUNCTION



Z20-240V 50/60Hz
Z20-240V DC
1-0 99

I _{load} (mA)	T _c (°C)
≤ 50	81
> 50...100	82
> 100...200	83
> 200...300	84
> 300	85

Made in Serbia - Europe





All categories

Buscar...

Products available



ID: 195

Steph's Flood Lights

Category: Grandes aparatos eléctricos (> 50cm)

Maximum application date: 08/04/2023

50 available units

[VIEW DETAILS](#)



ID: 193

Floods 123

Category: Aparatos de intercambio de temperatura

Maximum application date: 05/04/2023

60 available units

[VIEW DETAILS](#)



ID: 190

Fran's Flood Lights

Category: Aparatos de intercambio de temperatura

Maximum application date: 31/08/2023

45 available units

[VIEW DETAILS](#)







www.endcata.co.uk



www.recolight.co.uk/circular-lighting-report/

James Ivin – Environmental & Sustainability Manager – Overbury

10+ years in industry, 7+ years at Overbury. BREEAM Assessor, BREEAM AP, WELL AP & SKA Assessor



About Overbury:

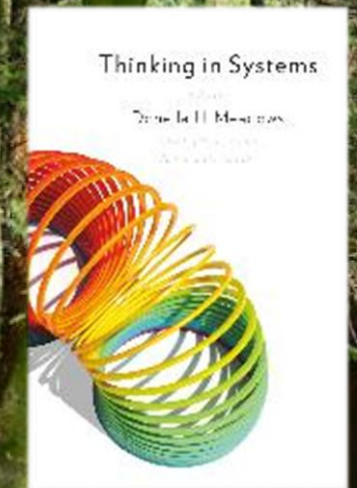
- Fit Outs – Fully tailored interiors – Throughout the Uk
- Refurbishments – Enhancing existing spaces across different sectors
- Specialist Environments – Education, healthcare, government, corporate partnerships
- Sustainability Focus
- Embodied carbon tracking & circular economy principles



System thinking and the built environment

Donella Meadows: 'An interconnected set of elements that is coherently organised in a way that achieves something'.

- Buildings are Complex
- Linear Process
- Design for Compliance Approach
- Silo Approach

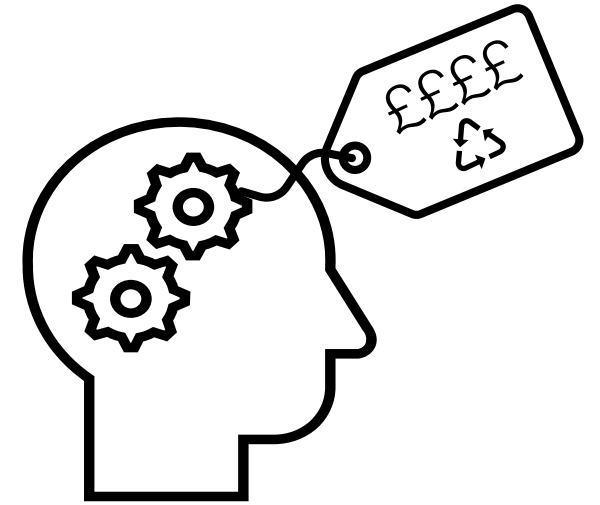


There are always 100
reasons not to do something!



How can collaboration break
down the barriers?

10%



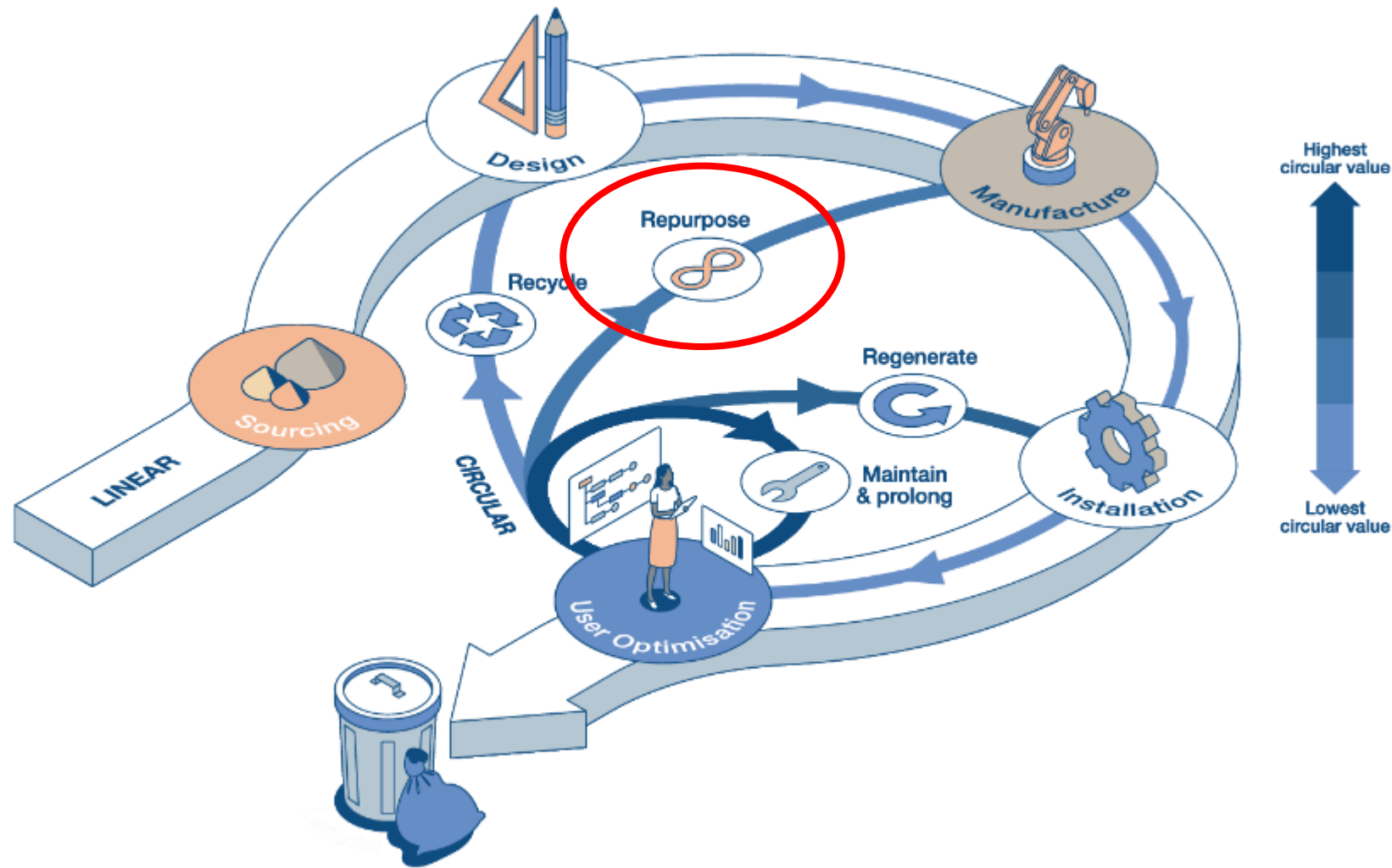
“Buildings are ‘gold mines’ of materials just waiting to be harvested, and if designed correctly they can be material replacers instead of depleters.”

Sources:

1: <https://sustainablebuild.co.uk/reclaimedmaterials/>

2: Braungart, M. and Mulhall, D. (2013) Cradle to Cradle®. From recycling building components to upcycling buildings. Adapting to accelerated building cycles. In Webster, K., Blériot, J. and Johnson, C. (editors) A New Dynamic: Effective Business in a Circular Economy. Cowes: Ellen MacArthur Foundation. 75-86.

Repurposing and the circular economy?



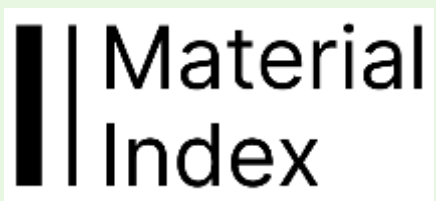
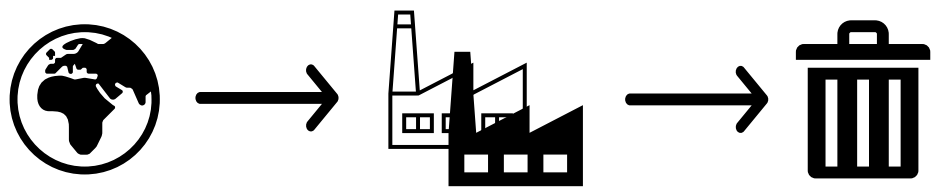
Barriers to Repurposing?

- Business as Usual
- Product Knowledge
- Economics
- Lack of Closed Loops



Alternative Material Sourcing

Moving away from “take-make-waste”

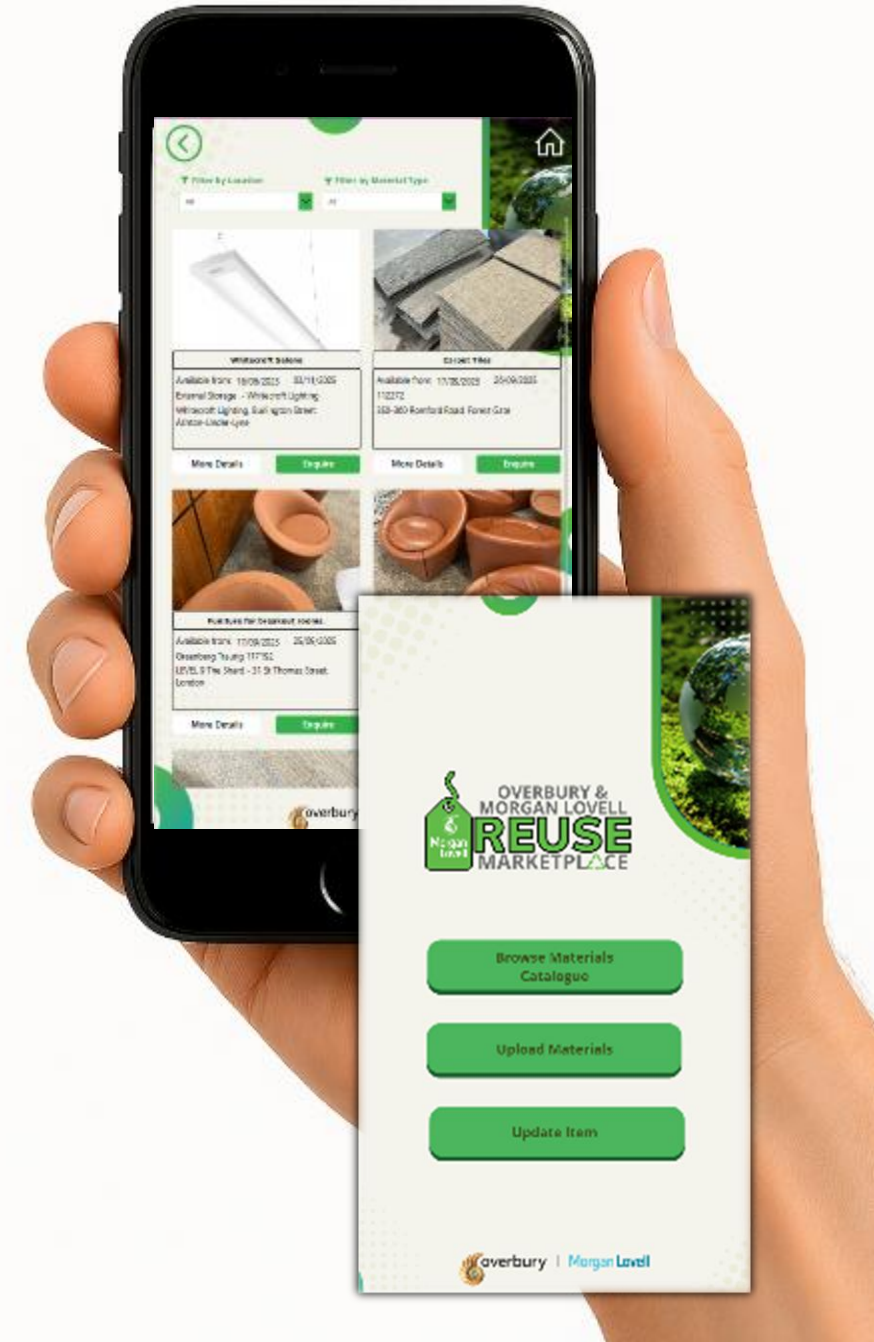


Plus many more!!!

Reuse Market Place

Aim 'To enable accessible and easy sharing of materials and supplies across Overbury sites'

- In House App
- Formalising an often ad-hoc process.
- Embodied Carbon Reduction
- Divert Waste
- Supports sustainability accreditations.
- Closing the Loop



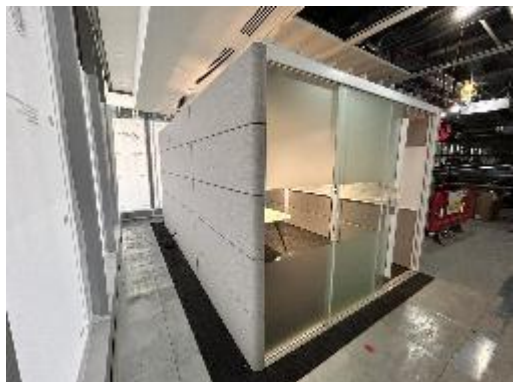
Whitecroft - Light fittings



Uplyfted – Carpet Tiles



Material Index – Orangebox Pod



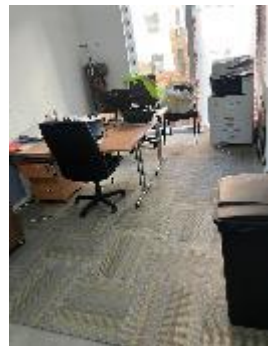
On site & Off-Site Reuse

On Site & Off-Site Reuse									
Item	Location	Quantity	Material	Condition	Re-use Potential	Re-use Location	Re-use Date	Re-use Status	Notes
1	Whitecroft	100	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
2	Whitecroft	50	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
3	Whitecroft	200	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
4	Whitecroft	150	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
5	Whitecroft	100	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
6	Whitecroft	50	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
7	Whitecroft	100	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
8	Whitecroft	50	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
9	Whitecroft	100	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
10	Whitecroft	50	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
11	Whitecroft	100	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
12	Whitecroft	50	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
13	Whitecroft	100	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
14	Whitecroft	50	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
15	Whitecroft	100	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
16	Whitecroft	50	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
17	Whitecroft	100	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
18	Whitecroft	50	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
19	Whitecroft	100	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	
20	Whitecroft	50	Light fittings	Good	High	Whitecroft	2023-01-01	Completed	

DBS – Cinema Style Seats



Internal Sourcing



Case Study for a large commercial project coming soon!

Next Steps:

- Pioneering Stage
- Formalisation of the process
- Digitalisation
- Learn and share with those around us



Thanks!

Any Questions?

