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How we describe materials and processes

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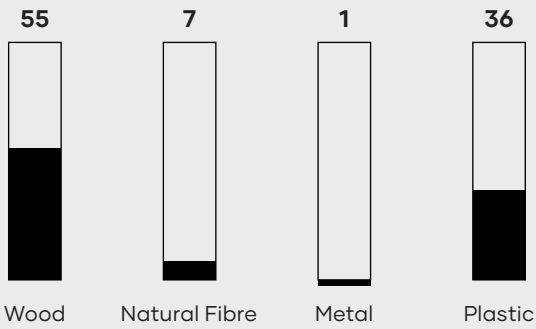
This sheet is to enable specifiers to easily compare the sustainability of MARK products with each other. This document seeks to show the sustainability compliance of the MARK product range against the various environmental and health & wellbeing standards that apply to furniture products. The range of requirements and standards that apply to furniture products are numerous and can be confusing, so the following information has been created as a handy guide for specifiers.

It is important to note that we have assessed all products based on their standard material specification, and while variations to the material of our products are possible for most of our range, these changes must first be verified by MARK before compliance to the sustainability requirements can be confirmed.

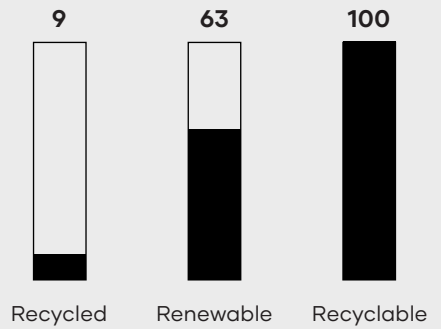
The information in this document has been produced by Element Four Sustainability & Wellbeing Consultancy on behalf of MARK Product. All information relating to the environmental performance of each product range within the Product Sustainability Compliance sheets have been provided by the material suppliers for the MARK products and is subject to change.



MATERIAL %



CIRCULARITY %



10 Year Guarantee

30 Year Life Cycle

FSC Certified Company

Renewable 1st, Recycled 2nd

Renew Scheme

Low VOC



PRODUCT INSIGHT

Bosco II has a higher proportion of solid wood content than most sofas. Oak is used for the exterior frame and beech for the interior.

Based on the large sofa in 100% wool fabric. See page 09 for definitions. Contact us for other products.



KEY	
All products compliant	•
Some products compliant	◦
Compliant if Specified*	◦
Working to compliance	Δ
Not applicable	-

\*not all fabric or finish options may be compliant – get in touch for advice.

BOSCO II	BOSCO II Ottoman	BOSCO II M Bench	BOSCO II Armchair	BOSCO II M Sofa	BOSCO II L Sofa	BOSCO II XL Sofa	BOSCO II corner sofa
	BOCO	BOCP	BOCA	BOCM	BOCL	BOCG	BOCC
EPD							
EPD to ISO14025	Δ	Δ	Δ	Δ	Δ	Δ	Δ
WELL BUILDING STANDARD							
X08.1	•	•	•	•	•	•	•
X10.1	◦	◦	◦	◦	◦	◦	◦
X10.3	•	•	•	•	•	•	•
X11.1	◦	◦	◦	◦	◦	◦	◦
X13.1	◦	◦	◦	◦	◦	◦	◦
SKA							
D15, D16 and D18	•	•	•	•	•	•	•
D20 and M05	•	•	•	•	•	•	•
M19, M20, M21 or M22	•	•	•	•	•	•	•
D63	•	•	•	•	•	•	•
FITWEL							
6.3 Indoor Air Quality	◦	◦	◦	◦	◦	◦	◦
BREEAM							
Hea02 Criteria 8	◦	◦	◦	◦	◦	◦	◦
Hea02 Criteria 16-18	◦	◦	◦	◦	◦	◦	◦
Hea02 Criteria 19-21	◦	◦	◦	◦	◦	◦	◦
LEED D&C V4							
MR BPDO WBL Option 4	Δ	Δ	Δ	Δ	Δ	Δ	Δ
MR BPDO EPD Option 1	Δ	Δ	Δ	Δ	Δ	Δ	Δ
MR BPDO SRM Option 1	◦	◦	◦	◦	◦	◦	◦
FISP							
FISP Certification	•	•	•	•	•	•	•
FSC/ PEFC							
Timber procured	•	•	•	•	•	•	•

**About MARK**

MARK Product was established in 2008 with a passion for designing and making furniture that would not only enhance the experience of the place where people work but also deliver a difference to the lives of the community and environment where that product was made.

In the past decade our projects have grown in scale and ambition across media, education, technology and hospitality sectors. Our suppliers have grown with us, creating many new jobs in Cornwall and beyond. And with this our ambition has grown.

Inspired by the climate strikes of 2019 and recognising the urgency of action on global heating, we renewed our mission to do better for the environment and because of this our Do Net Good strategy was born.

MARK – stands for Made And Realised in Kernow ('Cornwall' in the Cornish language)

**Furniture Industry Sustainability Programme**

MARK is proud to be a member of FISP, the Furniture Industry's independently certified sustainability programme. FISP is the furniture industry forum on all environmental and sustainability issues. These issues relate to all aspects of the industry from purchasing and procurement right through to end of product life, including social, ethical and employment concerns as well as waste, energy and emissions.

We have an annual assessment from a FISP auditor to ensure MARK Product is as sustainable as possible and that we are continuously improving.

**FSC / PEFC**

All timber sourced for MARK furniture is from legally sourced timber. MARK Product is an FSC certified manufacturer. License code FSC-C007915.

**EPD**

MARK have Environmental Product Declarations covering four representative product ranges including: Alf, Arris, Studioscape and Type.

**MARK Renew**

- MARK Renew is our scheme designed to extend the life of our furniture and to encourage its eventual recycling as part of a circular economy.
- We have set ourselves a goal is to introduce a MARK Renew label on to each product which gives information on how the product can be repaired, renewed, resold and recycled.
- We offer to 'Take-back' all our products for a refurbishment service or can provide signposting to second hand furniture dealers and to not-for-profit groups who repurpose furniture.
- We supply spare parts for our furniture and 'how to' guides for care and maintenance.

This section details information about the criteria that the MARK Product range complies with or can contribute towards achieving compliance. Please note the MARK Product range are not formally certified against the criteria listed below (unless mentioned otherwise), but their inclusion in a scheme can support projects pursuing accreditation with the assessment schemes.



### **WELL Building Standard**

The WELL Building Standard addresses the environmental impacts of furniture in a number of WELL Features. MARK is currently working with all their suppliers to meeting the features below:

#### **X08 part 1.B limit hazardous materials for all spaces**

Feature Intent: to reduce or eliminate exposure to hazardous heavy metals and phthalates found in building materials. Projects meet the requirements and develop a purchasing plan for continued procurement for all newly installed furnishings and furniture (including textiles, finishes and dyes), all components that constitute at least 5%, by weight, furniture or furnishing assembly meet the following thresholds for material content:

- Mercury less than 100 ppm.
- Cadmium less than 100 ppm.
- Antimony less than 100 ppm.
- Hexavalent chromium in plated finishes less than 1000 ppm.

#### **X10.1.a Manage Volatile Organic Compounds for All Spaces**

A minimum of 20% by cost of the following newly installed components including furniture contain halogenated flame retardants at less than 100 ppm or the extent allowable by local code.

#### **X10.3 Purchase Compliant Products for All Spaces**

Projects have a program in place that specifies future purchasing for repair, renovation or replacement of building materials and products that comply with requirements for 100% of components listed in Part 1: Manage Volatile Organic Compounds and Part 2: Manage Semi-Volatile Organic Compounds (SVOCs).

#### **X11.1 Long term emission control**

Newly installed furniture and furnishings meet VOC emission thresholds set by one of the following programs, earning 1 point for 50% compliance by cost and 2 points for 90% compliance by cost.

- ANSI/BIFMA e3-2011 Furniture Sustainability Standard sections 7.6.2 or 7.6.3, tested in accordance with ANSI/BIFMA Standard Method M7.1-2011.
- California Department of Public Health (CDPH) Standard Method v.1.2-2017.

**X13.1 Select Optimised Materials for All Spaces**

All newly installed furnishings, built-in furniture, interior finishes and finish materials comply with some combination of the following programs, earning 1 point for 15% compliance by cost and 2 points for 25% compliance by cost.

- Declare: Living Building Challenge Red List Free, Declare: Living Building Challenge Compliant or Living Product Challenge label.
- No GreenScreen® Benchmark 1, List Translator 1 or List Translator Possible 1 substances over 1,000 ppm, as verified by a qualified Ph.D. toxicologist or Certified Industrial Hygienist.
- Cradle to Cradle Material Health Certified with a V2 Gold or Platinum or V3 Bronze, Silver, Gold or Platinum Material Health Score.

**BREEAM (British Research Establishment Environmental Assessment Method)**

BREEAM addresses the environmental impacts of furniture within the Non-Domestic RFO Int. 2015 and UK 2014 assessment schemes in the credits listed below:

**Hea02 Criteria 8 VOC Emission Levels of Products**

All decorative paints and varnishes and wood panels meet the criteria in Table 20.

**Hea02 Criteria 16-18, 19-21 Minimising sources of air pollution**

All seven remaining product categories listed in Table 20 meet the testing requirements and emission levels criteria for Volatile Organic Compound (VOC) emissions (listed in the table) and for products B – F listed in Table 20, the formaldehyde emission levels have been measured and found to be less than or equal to 0.06mg/m<sup>3</sup> air (or 0.01mg/m<sup>3</sup> for exemplary level) in accordance with the approved testing standards in Table 20.

**LEED (Leadership in Energy and Environmental Design)**

The LEED Assessment addresses the environmental impacts of furniture in a number of LEED credits. MARK is currently working with their suppliers towards meeting the features below:

**Material Resources, Building Life-Cycle Impact Reduction, Option 4****OPTION 4 WHOLE-BUILDING LIFE-CYCLE ASSESSMENT (3 POINTS)**

For new construction (buildings or portions of buildings), a life-cycle assessment of the project's structure and enclosure is conducted that demonstrates a minimum of 10% reduction, compared with a baseline building, in at least three of the six impact categories listed below, one of which must be global warming potential. No impact category assessed as part of the life-cycle assessment may increase by more than 5% compared with the baseline building.

Select at least three of the following impact categories for reduction:

- global warming potential (greenhouse gases), in kg CO<sub>2</sub>e;
- depletion of the stratospheric ozone layer, in kg CFC-11;
- acidification of land and water sources, in moles H<sup>+</sup> or kg SO<sub>2</sub>;
- eutrophication, in kg nitrogen or kg phosphate;
- formation of tropospheric ozone, in kg NO<sub>x</sub>, kg O<sub>3</sub> eq, or kg ethene; and
- depletion of non-renewable energy resources, in MJ.

MARK Product ranges Alf, Arris Type and Studioscape have ISO 14025 and ISO 14044 compliant EPDs that can support clients pursuing this credit.

#### **Material Resources, Building Product Disclosure and Optimization (BPDO) EPD Option 1**

OPTION 1. ENVIRONMENTAL PRODUCT DECLARATION (EPD) (1 POINT)

Use at least 20 different permanently installed products sourced from at least five different manufacturers. MARK Product ranges Alf, Arris Type and Studioscape have ISO 14025 and ISO 14044 compliant EPDs that can support clients pursuing this credit.

#### **Material Resources, Building Product Disclosure and Optimization (BPDO) Sourcing Raw Materials Option 1**

RAW MATERIAL SOURCE AND EXTRACTION REPORTING (1 POINT)

Use at least 20 different permanently installed products from at least five different manufacturers that have publicly released a report from their raw material suppliers which include raw material supplier extraction locations, a commitment to long-term ecologically responsible land use, a commitment to reducing environmental harms from extraction and/or manufacturing processes, and a commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria.

MARK Product can provide the necessary FSC documentation for all timber used in their products.

#### **Ska Rating Assessment**

The Ska Rating Assessment addresses the environmental impacts of furniture in the Ska good practice measures below.

- D15 Reduce workstations and tables sent to landfill
- D16 Reduce chairs sent to landfill
- D18 Reduce other loose furniture sent to landfill
- At least 80% of waste items including furniture is reused, recycled, or diverted from landfill. Please see details on MARK's renew scheme.



**M05 Hardwood, D20 Timber**

100% of hardwood (M05) and timber (D20) is from at least one of the following sources: FSC, PEFC, SFI, CSA with Chain of Custody. Where a CoC number is missing for the final step in the timber handling chain, comprehensive Category B evidence will be acceptable to claim 'sustainable timber' is used on the project but not to publicly claim that a certified product has been purchased.

**M19 Workstations and tables M20 Chairs, M21 Storage Units, M22 Other loose ancillary furniture items meet one of the below and meet D20:**

- Cradle to Cradle (Silver+ cert.)
- FISP certification
- EPD (ISO14025)
- Business and Institutional Furniture Manufacturers Association (BIFMA)
- Manufactured with 40% recycled content (mass) and 90% recyclable content (mass) and designed for deconstruction with components that can be recycled) (M20, M21 and M22 only);

**D21 Total recycled materials**

All the materials that fall within the scope of good practice measures M01 to M29 are reused; or meet the requirements for the % recycled content of those good practice measures.

**D63 Low VOC finishes**

All products used in the fit-out that have low or zero VOC emissions. The definition of 'low' VOC emissions is product dependent and is based on compliance with the below:

- The product has been awarded one of the following labels: EMICODE – Levels 1 or 2, Blue Angel, M1, Eurofin Indoor Air comfort GOLD standard Or
- The product meets the requirement for formaldehyde E1 as tested to standard BS EN 717-1:2004 and has been tested to the following applicable British Standards, and has passed: for Varnishes: BS EN 13300:2001, Wood panels: EN 13986:2004, Timber structures: EN 14080:2005, Wood flooring: EN 14342:2005, Floor coverings EN 14041:2004, Suspended ceiling tiles EN 13964:2004, Flooring adhesives EN 13999-1:2007, Adhesives for hanging flexible wall coverings, BS 3046:1981, Wall-coverings, EN 233:1999, EN 234:1997, EN 259:2001, EN 266:1992.

**Fitwel**

Fitwel is a health and wellbeing certification system and has one criteria that addresses the sustainability standards for furniture.

**6.3 Indoor Air Quality**


This feature requires all finishes and coatings applied to furniture to comply with the below standards:

- California Air Resources Board (CARB) requirements for ultra-low-emitting formaldehyde (ULEF) resins or no-added formaldehyde based resins
- EPA TSCA Title VI for ultra-low-emitting formaldehyde (ULEF) resins or no added formaldehyde resins (NAF)





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<b>Wood</b> <b>Natural Fibre</b> <b>Metal</b> <b>Plastics</b>	These categories cover most of the materials we use. Wood and metal are self-explanatory. Plastics includes foam and synthetic fibres used in textiles, and small parts such as furniture feet. Natural fibres are renewal materials used in textiles and fillings, for example wool, linen, cotton, coir and feathers. Material percentages are measured by weight.
<b>Renewable</b>	Renewable materials are naturally derived such as wood and fibres like coconut, cotton and wool.
<b>Recycled</b>	Materials like steel and aluminium are commodities and it is not possible to identify the recycled content of a specific item. Instead we have taken recycled content figures typical of the materials from the sources we buy from as follows: Steel 56%, Stainless Steel 60%, Aluminium 50%, Zinc and Polyester 15%, Polyurethane and LDPE 0%.
<b>Recyclable</b>	<p>We use a definition of recyclable which requires all four of these conditions to be met:</p> <ol style="list-style-type: none"><li>1. The product must be made with materials that are widely collected for recycling and have a market value.</li><li>2. The product must be easy to take apart and separate into defined streams for recycling processes.</li><li>3. The product can be recycled by commercial processors in all areas where it is sold and used.</li><li>4. The recycled material becomes a raw material that is used in the production of new products.</li></ol>
	A product or component is made in the UK if it is not only assembled, but converted from stock material into a product in the UK. Small easily transported fittings may be included provided they make up less than 5% of a product by value.

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