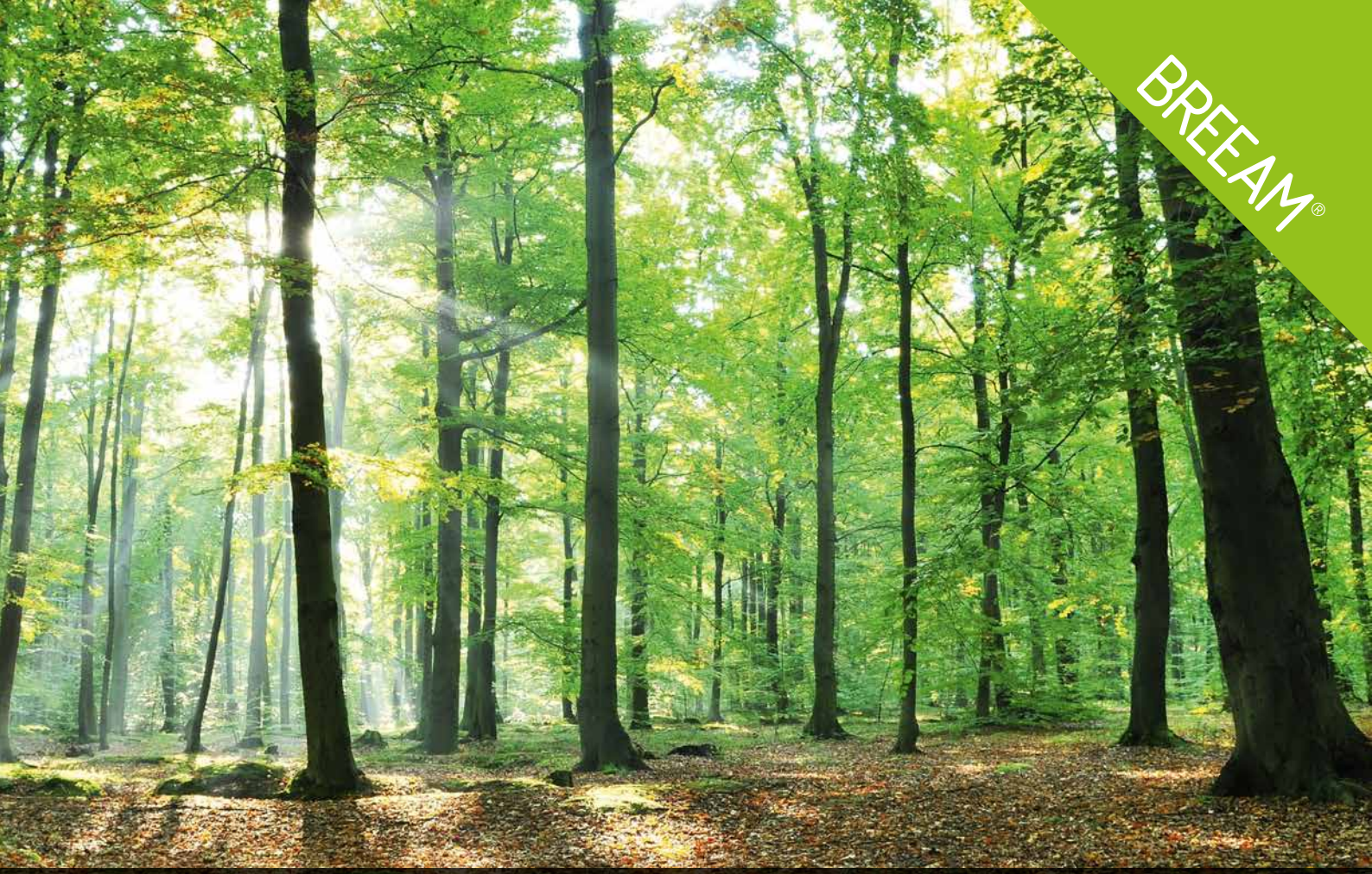
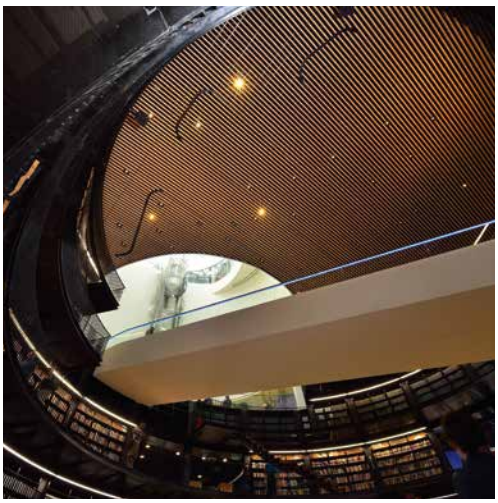


BREEAM credits with DERAKO

Contribution DERAKO Solid Wood Systems to BREEAM International Certification

BREEAM (BRE Environmental Assessment Method) International is globally one of the most respected and adopted green building certification systems, assessing the sustainability of a building in a holistic manner following 9 categories: management, health & wellbeing, energy, transport, water, materials, waste, land use & ecology and pollution. These categories are divided in various criteria for which various credits can be earned, which are then weighed and valued per category resulting in one final score for the building on several levels: Unclassified, Pass, Good, Very Good, Excellent and Outstanding.

The table on the back provides an overview how application of the various solid wood systems of DERAKO International can help provide a contribution to a higher BREEAM International score, based on the latest BREEAM International Scheme Document New Construction 2016. For more information please contact us through sustainability@derako.com.



Central Library Birmingham, designed by Mecanoo.
BREEAM 'Excellent'.

DERAKO®
Solid Wood Systems

Credits

BREEAM®

Criterion	Description / aim	Kind of contribution	Possible impact of DERAKO systems	Applicable DERAKO product groups	Remark / explanation
HEA 02 Indoor Air Quality	To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.	Direct	1 credit (Emissions from building products)	DERAKO wall and ceiling system.	VOC testing performed for the DERAKO systems reveal very low VOC emissions (best classification possible: A+ following the French VOC system), easily meeting the BREEAM International benchmarks for Wood-based products (table 17). Testreport available on request.
MAT 01 Life Cycle Impacts	To recognise and encourage the use of robust and appropriate life cycle assessment tools and consequently the specification of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building.	Direct	Up to 6 credits	The wood / bamboo elements in the DERAKO wall, ceiling and façade system.	DERAKO is working on an EPD (EN 15804 / ISO 14025) for its full system which should be ready second half of 2017. The main component of the DERAKO system, FSC / PEFC certified wood for ceilings and walls, and for façades, is available in all relevant LCA tools including the BREEAM International Mat 1 calculator and in general has a lower environmental impact compared to competing materials (e.g. aluminium, PVC). Furthermore, for various other innovative bio-based materials suitable for implementation in the DERAKO system such as MOSO bamboo and Accoya wood, an EPD (15804) is already available: MOSO Bamboo EPD Accoya wood EPD
MAT 03 Responsible sourcing of construction products	To recognise and encourage the specification and procurement of responsibly sourced construction products.	Direct	Up to 3 credits	DERAKO wall, ceiling and façade system.	The DERAKO systems are by default supplied with FSC or PEFC certified wood.
MAN 03 Responsible construction practices	To recognise and encourage construction sites which are managed in an environmentally and socially considerate, responsible and accountable manner.	Indirect	Prerequisite	DERAKO wall, ceiling and façade system.	DERAKO uses FSC and PEFC certified wooden packaging to get the DERAKO systems safe and damage free to the construction site.
MAN 02 Life cycle cost and service life planning	To deliver whole life value by encouraging the use of life cycle costing to improve design, specification, through-life maintenance and operation, and through the dissemination of capital cost reporting to promote economic sustainability.	Indirect	Up to 2 credits	DERAKO wall, ceiling and façade system.	The DERAKO system requires very low maintenance, resulting in low life cycle costs. For the façade system this is further amplified when is chosen for wood / bamboo species with highest durability class (class 1 following EN 350) such as Bamboo X-treme and Accoya wood.
HEA 01 Visual comfort	To ensure daylighting, artificial lighting and occupant controls are considered at the design stage to ensure best practice in visual performance and comfort for building occupants.	Indirect	Up to 4 credits (daylighting)	DERAKO wall and ceiling system.	Application of light coloured wood species in the DERAKO wall and ceiling systems can help improve daylight illuminance factors in the building.
HEA 05 Acoustic performance	To ensure the building's acoustic performance, including sound insulation meets the appropriate standards for its purpose.	Indirect	Up to 4 credits	DERAKO wall and ceiling system.	The DERAKO wall and ceiling systems can be supplied with acoustic fabric on the back, helping to meet indoor ambient noise levels.

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