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Éditions du Pavillon de l'Arsenal

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L'empreinte d'un habitat

Construire léger et décarboné

Éditions du Pavillon de l'Arsenal, janvier 2022
Ouvrage bilingue français, anglais

La quête de légèreté n'est pas nouvelle. L'ambition de réduire la quantité de matière débite il y a un siècle dans un contexte de pénurie de logements et de matériaux. Avec l'urgence de bâtir plus et l'obligation de consommer moins, quelques pionniers inventent d'autres architectures. Ils s'appellent Richard Buckminster Fuller, Charlotte Perriand, Pierre Jeanneret, Lawrence Kocher, Walter Gropius, Jean Prouvé, Charles et Ray Eames, Makoto Masuzawa, Jorn Utzon, et aujourd'hui Hans Walter Müller, Renzo Piano ou Shigeru Ban. Leur quête prend désormais un sens nouveau que l'ouvrage révèle par l'analyse et le redessin.

Chacune des trente architectures décomposées selon un protocole développé par l'agence Philippe Rizzotti Architecte et le laboratoire IBI de l'ETH Zürich, dévoile des potentiels. Économie de moyen, rapidité de mise en œuvre, modularité, flexibilité et évolutivité... ces qualités inhérentes à la construction légère se conjuguent avec nos ambitions écologiques actuelles de frugalité.

Light and low-carbon construction

Philippe Rizé, architect

The following content is a translation of the original text, which is a mix of French and English. It discusses the challenges of light and low-carbon construction, the role of architects, and the importance of collaboration between different stakeholders. The text mentions the need for a holistic approach, considering the entire lifecycle of a building, from design to construction and operation. It also highlights the importance of innovation and the use of new materials and technologies to reduce carbon emissions. The text is structured into several paragraphs, each focusing on a different aspect of the topic. The overall tone is informative and professional, aimed at an audience interested in sustainable architecture and construction.

Construire léger et décarboné

Philippe Rizé, architecte

The project was first conceived in January of the year... The main objective was to create a light and low-carbon building. The project involved a multidisciplinary team, including architects, engineers, and construction professionals. The team worked closely together to develop a design that was both aesthetically pleasing and environmentally responsible. The building was constructed using lightweight materials and innovative construction techniques. The result was a modern, functional space that also had a significantly lower carbon footprint compared to traditional buildings. The project serves as a model for how to achieve sustainable construction goals.

Technical drawing showing a cross-section and a 3D perspective view of a building structure. The drawing includes various components like the roof, walls, and floor, with labels and dimensions. It illustrates the structural framework and the integration of different materials and systems.

3D architectural rendering of a building with a complex, multi-colored facade. The building features a central tower and several smaller volumes, all connected by a network of walkways and stairs. The rendering shows the building's form and color palette in a stylized, illustrative manner.

Refuge Tonneau 1938

Charlotte Perriand & Pierre Jeanneret

Technical drawing of the Refuge Tonneau 1938, showing a cross-section and a 3D perspective view of the barrel-shaped structure. The drawing includes labels and dimensions, highlighting the unique design and construction of this iconic mountain refuge.



Technical drawing showing a cross-section and a 3D perspective view of a building structure. The drawing includes various components like the roof, walls, and floor, with labels and dimensions. It illustrates the structural framework and the integration of different materials and systems.

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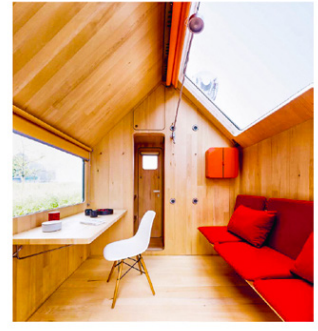
Espansiva 1969



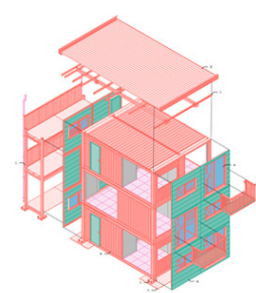
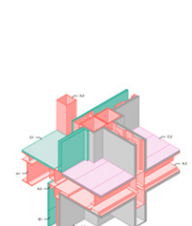
Jørn Utzon

Client	...
Location	...
Year	...
Area	...
Architect	Jørn Utzon

The Chicago project started for the architect Jørn Utzon, who was the first to see it as a place of the world's first...
 Le projet Chicago, au sens des plans pour un logement...
 En 1969, une première version sans construction de...
 La table de 2,10 m x 2,10 m de base, sur une...
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Architect	Jørn Utzon



Container Temporary Housing 2011

Voluntary Architects'
Network &
Shigeru Ban Architects



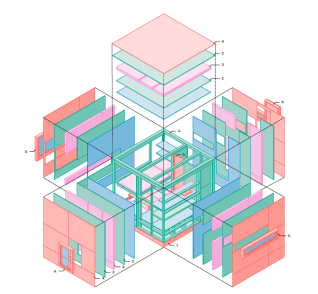
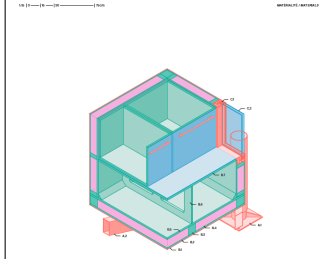
Client	...
Location	...
Year	...
Area	...
Architect	Voluntary Architects' Network & Shigeru Ban Architects

Micro Compact Home 2001-2021



Richard Horden,
Lydia Haack
& John Höpfner

Client	...
Location	...
Year	...
Area	...
Architect	Richard Horden, Lydia Haack & John Höpfner



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Location	...
Year	...
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Client	...
Location	...
Year	...
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Architect	...

Client	...
Location	...
Year	...
Area	...
Architect	...

La Promesse de l'Aube 2016

Moonarchitectures



Client	...
Location	...
Year	...
Area	...
Architect	Moonarchitectures



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