

项目名称：小豆岛 The GATE LOUNGE

设计团队：VUILD

面积：81.9 m²

地点：日本，香川县小豆郡



设计特色：

项目 – 这座位于日本西部偏远小豆岛上的 The GATE LOUNGE 是一处多功能设施，致力于庆祝橄榄种植文化。VUILD 的建筑师提出了一种全新的木构建筑方式，最大限度地利用当地资源，同时巧妙地融合数字制造工艺。项目的重点是利用小豆岛丰富的柳杉林作为主要建筑材料。通过在岛上设置小型数控铣床和干燥窑，700 余根当地采伐的柳杉原木可以被精确加工成为拱形结构部件。这种数字化方法消除了对熟练木匠的需求，使得传统上只有大师级木工才能完成的复杂木件连接得以实现。除了材料采购，设计巧妙地与岛上气候环境相协调。三翼式的形态利用漏风效应促进自然通风，而分层的墙体开口则提供充足的采光。外部使用了当地花岗岩做基础，将木质结构牢牢植根于小豆岛的地质环境中。来到这里的游客可以亲身体会橄榄树的种植、生产过程，甚至通过有意为之的光影设计感受岛上独特的气氛。The GATE LOUNGE 展现了数字工具如何能够提升地方建造传统，打造与当地环境高度和谐、注重可持续性的建筑设计。

团队 – 2017 年创立的 VUILD，是一个致力于通过数字化制造技术来推动设计创新的前卫建筑设计公司。这家公司由热情洋溢的设计师、技术人员和制造商组成，利用自有的数字化生产能力，实现了从概念到建造的无缝对接。VUILD 起源于家具设计，随后将专业领域拓展至住宅和商业建筑。他们在 2019 年完成的代表作" Marebito 住宅"广受

好，甚至获得了知名的设计金奖。凭借这一成功，VUILD 随后承接了更多富有野心的建筑委托，不断挑战行业惯例。VUILD 秉持协作、创新和再生的设计理念，与客户密切合作，打造体验性强、环保性能优越的建筑，重塑了建筑环境的可能性。他们不断质疑现有假设，开拓创新的制造工艺，引领建筑行业走向更加创新、可持续和民主的未来。在首席执行官秋吉浩气（Koki Akiyoshi）的领导下，VUILD 才华横溢的建筑师、工程师和制造商团队，齐心协力实现为下一代创造启迪灵感的建筑设计愿景。

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Project: Shodoshima the GATE LOUNGE

Team: VUILD

Size: 81.9 m²

Location: Kagawa, Japan



Feature:

Project - Nestled in the remote Shodoshima island off western Japan, VUILD has completed The GATE LOUNGE, a multipurpose facility celebrating olive cultivation. The architects proposed a new way of timber construction that maximizes local resources while seamlessly integrating digital fabrication processes.

A key focus was harnessing Shodoshima's abundant cypress forests as the primary building material. By setting up a small CNC mill and drying kiln on-site, over 700 locally-felled cypress logs could be precisely machined into the arching structural components. This digital approach replaced the need for skilled carpentry and enabled complex joinery typically reserved for master craftsmen.

Beyond material sourcing, the design skillfully harmonizes with the island's climate. The three-winged form encourages natural ventilation by funneling breezes, while layered wall apertures provide ample daylighting. Exterior granite boulder foundations anchor the timber structure, deeply rooting it to Shodoshima's geology.

An immersive experience awaits visitors who can observe olive cultivation, production and even sense the island's terroir through architecture intentionally shaped by light and wind. The GATE LOUNGE exemplifies how digital tools can uplift regional construction methods to create place-sensitive, sustainability-minded design.

Design Team - Established in 2017, VUILD is a visionary architecture collective dedicated to pushing the boundaries of design through the seamless integration of digital fabrication technologies. Comprising passionate designers, technicians, and fabricators, the firm harnesses the power of its in-house digital manufacturing capabilities to deliver innovative architectural solutions from concept to construction.

Starting from their roots in furniture design, VUILD has since expanded their expertise into the realms of residential and commercial architecture. Their 2019 debut project, "House for Marebito," earned widespread acclaim. Emboldened by this success, VUILD has since taken on an array of ambitious architectural commissions, always striving to challenge conventional industry norms.

Guided by a collaborative, inventive, and regenerative design philosophy, the VUILD team works closely with clients to create experiential, high-performance buildings that redefine the possibilities of the built environment. By constantly questioning existing assumptions and pioneering novel fabrication processes, the firm is leading the charge towards a more innovative, sustainable, and democratized future for

architecture.

Under the visionary leadership of CEO Hiroki Akiyoshi, VUILD's talented roster of architects, engineers, and fabricators are united in their mission to co-create inspiring visions for the next generation. With a growing portfolio of awards and accolades, VUILD is firmly established as a trailblazer in the architecture industry, pushing the boundaries of what's possible through the power of digital design and manufacturing.

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