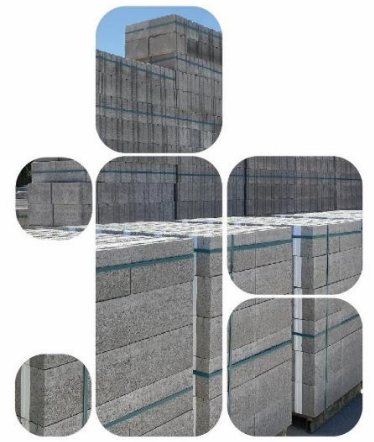


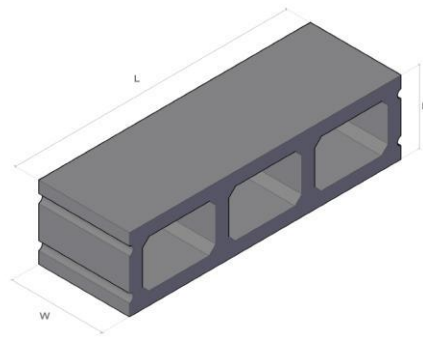


Technical Data Sheet

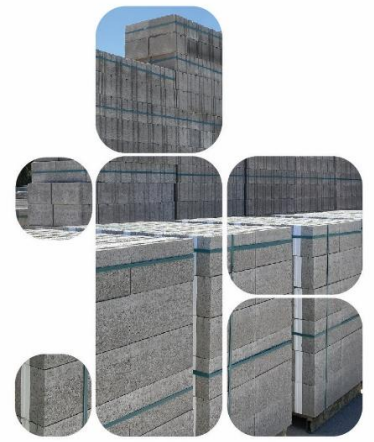
REGULAR & LIGHTWEIGHT HOURDI BLOCKS

Open & Closed 18x20x40 cm

Sibline Hourdi is a **non-load-bearing block used in slab construction**. It allows the construction of one-way or two-way ribbed slabs, with an upper concrete flange cast in situ in a single operation. Slab design shall be carried out in accordance with the applicable governing codes and standards, including, but not limited to, UBC 97 and ACI 318.



Dimensions in cm		
Width (W)	Height (H)	Length (L)
18	20	40

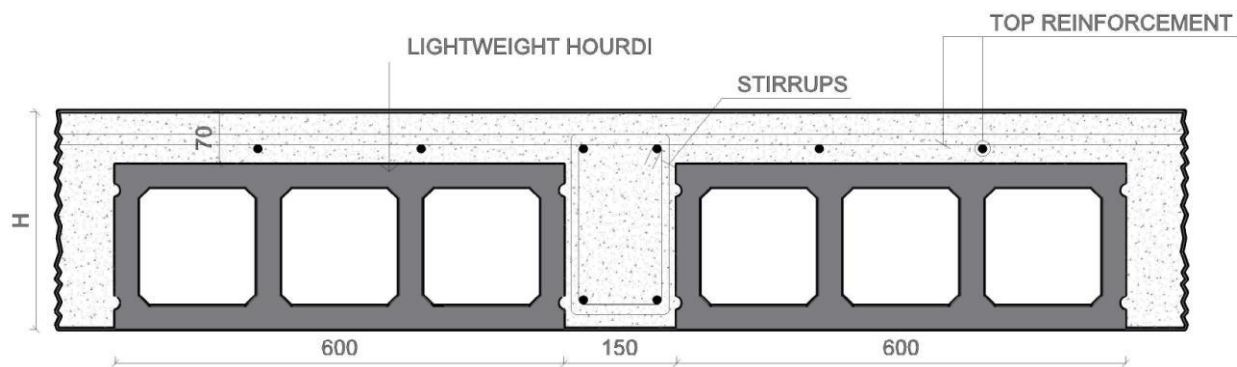


Technical Data Sheet

REGULAR & LIGHTWEIGHT HOURDI BLOCKS

Open & Closed 18x20x40 cm

Typical Section



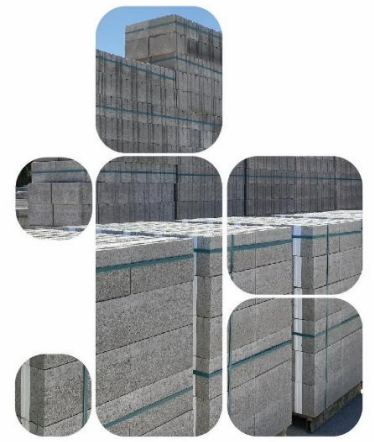
Sibline Lightweight and Regular **Hourdi Blocks** are produced using a proprietary mix design containing Portland cement, silica sand, limestone aggregates and lightweight materials, including pumice (natural lightweight aggregate) and non-toxic flame-retardant expanded polystyrene (EPS).

Sibline Lightweight Hourdi Blocks are available in densities of **1200 and 1400 kg/m³**, while Sibline Regular Hourdi Blocks are available in a density of **2200 kg/m³**.

Slabs using Sibline Lightweight Hourdi Blocks are lighter than slabs constructed using conventional techniques. This reduces the loads on the structure and may allow for smaller beams, vertical structural elements, and raft foundations, in some cases avoiding the need for piling.

As a result, the use of lightweight Hourdi blocks can contribute to a **significant reduction in the overall construction cost** of the structure.





Technical Data Sheet

REGULAR & LIGHTWEIGHT HOURDI BLOCKS

Open & Closed 18x20x40 cm

One of the key advantages of Sibline Lightweight Hourdi Blocks is their **low thermal transmittance (U-value)** compared with other construction materials. This contributes to improved thermal insulation and helps reduce energy consumption throughout the building's lifetime.

Their lightweight nature makes Sibline Lightweight Hourdi Blocks **easier and more economical to handle**, reducing manual handling efforts, the risk of injuries during manipulation, and overall workmanship costs.

The homogeneity and compaction of the lightweight concrete help reduce the transmission of **airborne and impact sound** through slabs. Sibline Lightweight Hourdi Blocks provide typical sound abatement properties of **up to 40 dB**, which can reach **up to 52 dB**, depending on the thickness and configuration of the application.

Despite their lightweight nature, Sibline Lightweight Hourdi Blocks provide good strength and are **easy to cut and modify** using a saw or hammer compared with conventional cementitious blocks, facilitating installation and on-site adjustments.

Sibline Lightweight Hourdi Blocks are available in **two types: Open and Closed**.



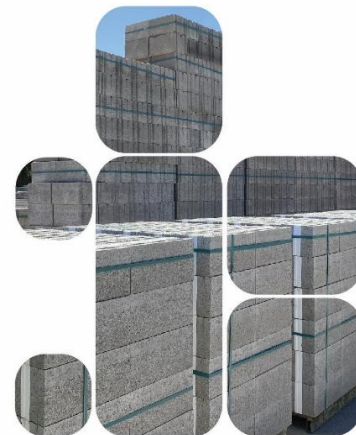
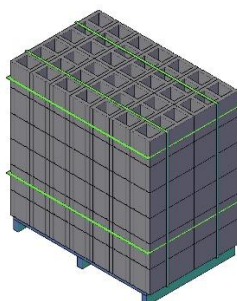
Technical Data Sheet

REGULAR & LIGHTWEIGHT HOURDI BLOCKS

Open & Closed 18x20x40 cm

Hourdi 18x20x40cm

Logistics



Pallet		EURO / 2-way entry / steel		
Pallet dimensions ($W_p \times L_p \times H_p$)	cm	80 x 120 x 8		
Pallet weight	kg	20		
Typical strapping	-	2 longitudinal / 2 transversal		
Net dry density (kg/m ³) ¹			1200	1400
Typical block weight ²	kg	8.2	9.5	15
gross dry density ³	kg/m ³	569	660	1,042
blocks per pallet	pieces	84	84	84
weight of one pallet loaded (incl. pallet) ⁴	kg	709	818	1,280
height of one pallet loaded (incl. pallet)	cm	150	150	150
pallets per 12 m length trailer ⁵	pallets	27	27	27
pallets per 4.12 m length truck (Hino type) ⁵	pallets	6	6	6
blocks per 12 m length trailer	pieces	2,268	2,268	2,268
blocks per 4.12 m length truck (Hino type)	pieces	504	504	504

1. Net dry density is the oven dry density of the lightweight/normal concrete used to fabricate the blocks.

2. Typical block weight is an average of several oven dry blocks weights measured as per 771-3.

3. Gross dry density is the oven dry block weight divided by its gross volume in m³.

4. Bases on oven dry weights.

5. Indicative maximum number of pallets based on full flat-bed trailers of 12m or for flat-bed Hino of 4.12 m in length.

For more details, please contact us.

General comment: As part of Sibline continuous improvement process, Sibline keeps the right to change the dimensions and weights without prior notice.