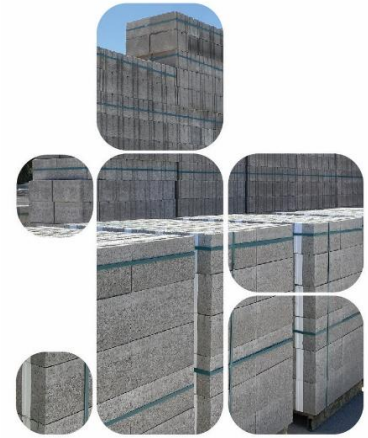




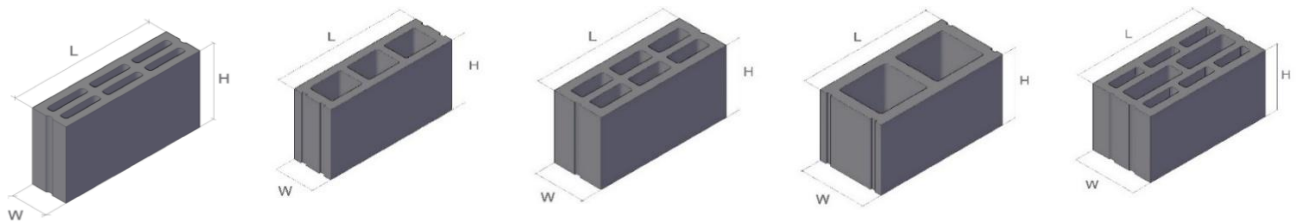
Technical Data Sheet

REGULAR & LIGHTWEIGHT HOLLOW BLOCKS 10x20x40 – 12x20x40 – 15x20x40 – 20x20x40 cm

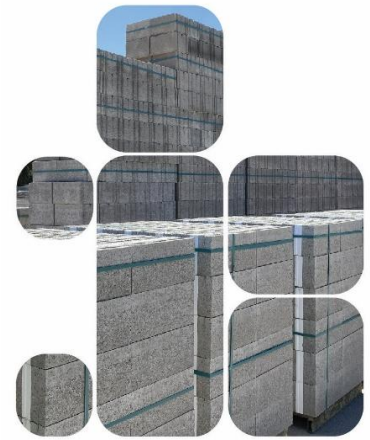
Sibline **Hollow** Block is a non-load-bearing concrete masonry unit available in both lightweight and normal densities, designed for internal partitioning and external walls. It is produced with an automatic press in accordance with EN 771-3, Category D1. The block strength can be adjusted according to the Engineer's requirements. Several compressive strengths can be achieved for a given density. Sibline Hollow Blocks comply with ASTM C129 standards.

It is manufactured 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 Hollow Blocks are available in densities of **1200 and 1400 kg/m³**, while Sibline Regular Hollow Blocks are available in a density of **2200 kg/m³**.



Dimensions in cm		
Width (W)	Height (H)	Length (L)
10	20	40
12	20	40
15	20	40
20	20	40



Technical Data Sheet

REGULAR & LIGHTWEIGHT HOLLOW BLOCKS 10x20x40 – 12x20x40 – 15x20x40 – 20x20x40 cm

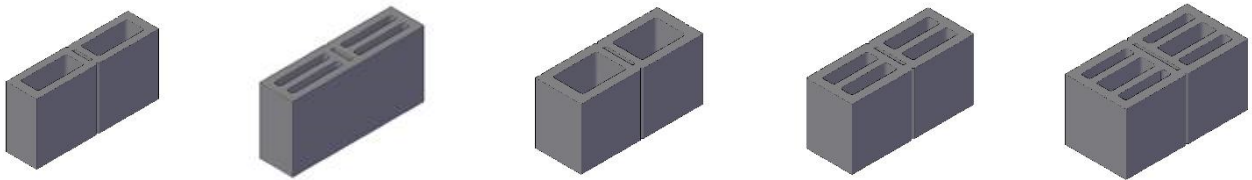
Sibline **Hollow Blocks** have successfully passed the two-hour fire resistance test in accordance with EN 1364 standards. The EPS used is a non-toxic, flame-retardant (FR-grade) expandable polystyrene produced using a reactive flame-retardant agent, with no additive agent used.

Sibline works exclusively with EPS producers that comply with EN RAR 2006 standards, particularly regarding the HBCDD concentration, which remains below 0.7%. The EPS used is free from HFCs, CFCs, and HCFCs, unlike extruded polystyrene (XPS), which is commonly used in Lebanon.

In addition, the global warming potential (GWP) of Sibline EPS is less than 5, as Pentane is used as the blowing agent. Pentane is not classified by the European Union as a substance hazardous to human health or the environment. By comparison, the typical GWP of XPS is around 1300 due to the use of HFCs as blowing agents.

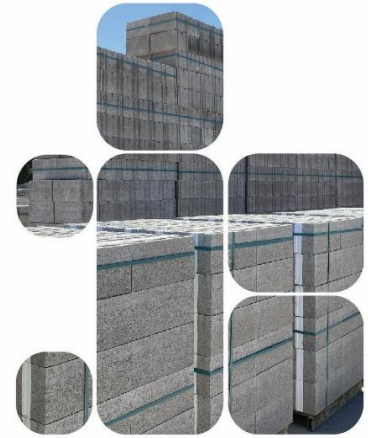
Sibline Hollow Block is much easier to cut using a saw or hammer compared to regular cementitious blocks. It is available with rectangular-hole blocks offering better thermal insulation and enhanced fire resistance.

Hollow blocks with widths of 10, 12, 15, and 20 cm are delivered with a certain percentage of “split” blocks, which can be easily separated into two pieces on-site without the need for a hammer or saw.



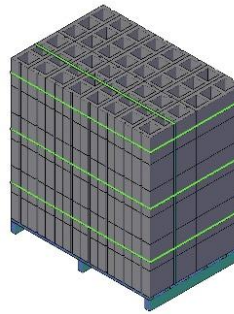
Technical Data Sheet

REGULAR & LIGHTWEIGHT HOLLOW BLOCKS
10x20x40 – 12x20x40 – 15x20x40 – 20x20x40 cm



Hollow 10x20x40cm A001

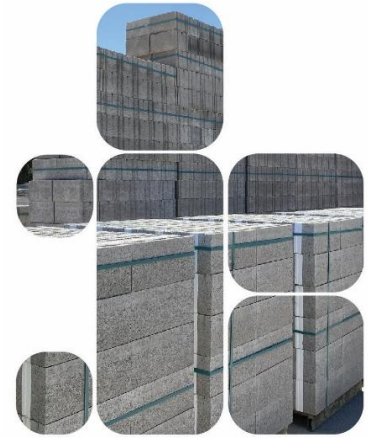
Logistics



Pallet		EURO / 2-way entry / steel		
Pallet dimensions (W _p x L _p x H _p)	cm	80 x 120 x 8		
Pallet weight	kg	20		
Typical strapping	-	1 longitudinal / 3 transversal		
Net dry density (kg/m ³) ¹		1200	1400	2200
Typical block weight ²	kg	5.8	6.7	10.6
gross dry density ³	kg/m ³	725	838	1,325
blocks per pallet	pieces	144	144	144
weight of one pallet loaded (incl. pallet) ⁴	kg	855	985	1,546
height of one pallet loaded (incl. pallet)	cm	130	130	130
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	3,888	3,888	3,888
blocks per 4.12 m length truck (Hino type)	pieces	864	864	864

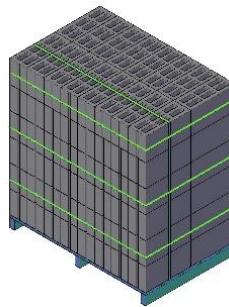
Technical Data Sheet

REGULAR & LIGHTWEIGHT HOLLOW BLOCKS
10x20x40 – 12x20x40 – 15x20x40 – 20x20x40 cm



Hollow 10x20x40cm A002

Logistics



Pallet		EURO / 2-way entry / steel		
Pallet dimensions (W _p x L _p x H _p)	cm	80 x 120 x 8		
Pallet weight	kg	20		
Typical strapping	-	1 longitudinal / 3 transversal		
Net dry density (kg/m ³) ¹		1200	1400	2200
Typical block weight ²	kg	6.7	7.8	12.3
gross dry density ³	kg/m ³	838	975	1,538
blocks per pallet	pieces	144	144	144
weight of one pallet loaded (incl. pallet) ⁴	kg	985	1,143	1,791
height of one pallet loaded (incl. pallet)	cm	130	130	130
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	3,888	3,888	3,888
blocks per 4.12 m length truck (Hino type)	pieces	864	864	864

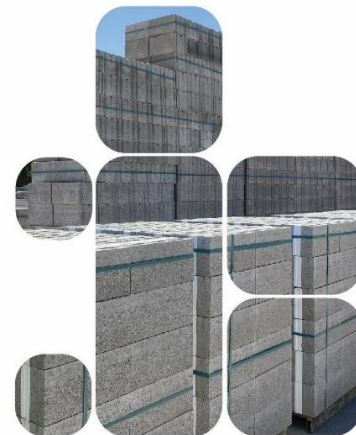
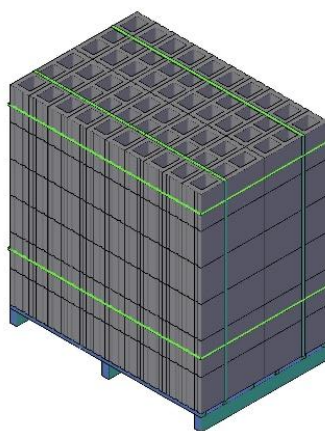
Technical Data Sheet

REGULAR & LIGHTWEIGHT HOLLOW BLOCKS

10x20x40 – 12x20x40 – 15x20x40 – 20x20x40 cm

Hollow 12x20x40cm A001

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	2200
Typical block weight ²	kg	6.3	7.3	11.5
gross dry density ³	kg/m ³	656	760	1198
blocks per pallet	pieces	120	120	120
weight of one pallet loaded (incl. pallet) ⁴	kg	776	896	1400
height of one pallet loaded (incl. pallet)	cm	130	130	130
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	3,240	3,240	3,240
blocks per 4.12 m length truck (Hino type)	pieces	720	720	720

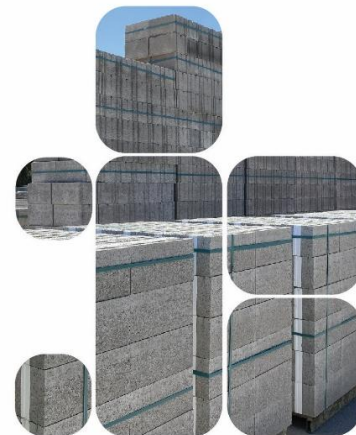
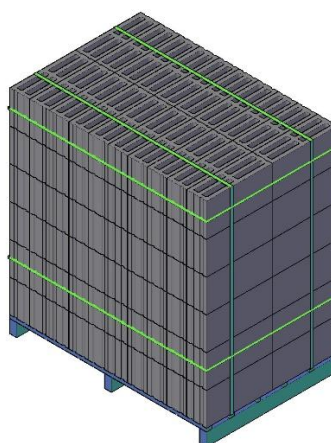
Technical Data Sheet

REGULAR & LIGHTWEIGHT HOLLOW BLOCKS

10x20x40 – 12x20x40 – 15x20x40 – 20x20x40 cm

Hollow 12x20x40cm A002

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	2200
Typical block weight ²	kg	7.2	8.4	13.2
gross dry density ³	kg/m3	750	875	1375
blocks per pallet	pieces	120	120	120
weight of one pallet loaded (incl. pallet) ⁴	kg	884	1028	1604
height of one pallet loaded (incl. pallet)	cm	130	130	130
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	3,240	3,240	3,240
blocks per 4.12 m length truck (Hino type)	pieces	720	720	720

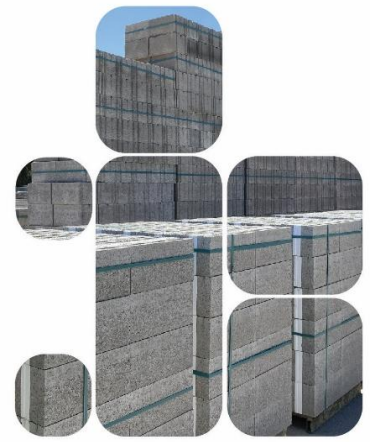
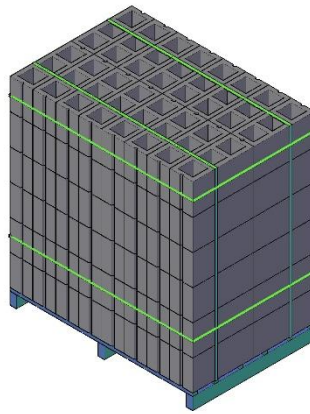
Technical Data Sheet

REGULAR & LIGHTWEIGHT HOLLOW BLOCKS

10x20x40 – 12x20x40 – 15x20x40 – 20x20x40 cm

Hollow 15x20x40cm A001

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	2200
Typical block weight ²	kg	8.2	9.5	15
gross dry density ³	kg/m3	683	792	1,250
blocks per pallet	pieces	96	96	96
weight of one pallet loaded (incl. pallet) ⁴	kg	807	932	1460
height of one pallet loaded (incl. pallet)	cm	130	130	130
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	2,592	2,592	2,592
blocks per 4.12 m length truck (Hino type)	pieces	576	576	576

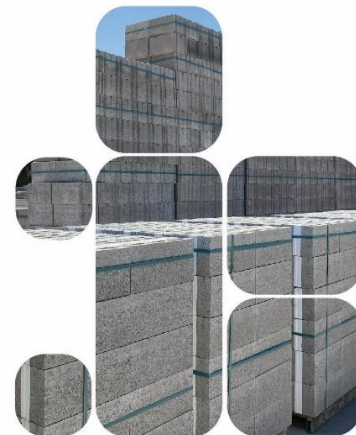
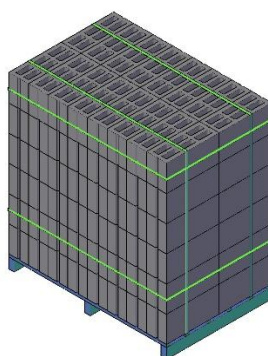
Technical Data Sheet

REGULAR & LIGHTWEIGHT HOLLOW BLOCKS

10x20x40 – 12x20x40 – 15x20x40 – 20x20x40 cm

Hollow 15x20x40cm A002

Logistics



Pallet		EURO / 2-way entry / steel		
Pallet dimensions (W _p x L _p x 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	2200
Typical block weight ²	kg	9.3	10.8	17
gross dry density ³	kg/m ³	775	900	1,417
blocks per pallet	pieces	96	96	96
weight of one pallet loaded (incl. pallet) ⁴	kg	913	1,057	1,652
height of one pallet loaded (incl. pallet)	cm	130	130	130
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	2,592	2,592	2,592
blocks per 4.12 m length truck (Hino type)	pieces	576	576	576

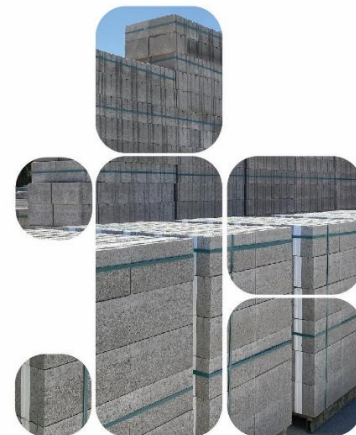
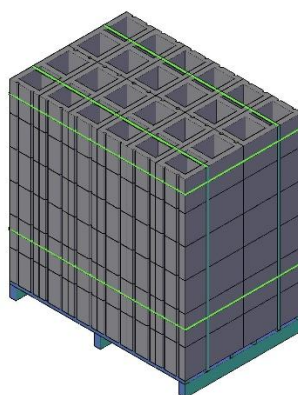
Technical Data Sheet

REGULAR & LIGHTWEIGHT HOLLOW BLOCKS

10x20x40 – 12x20x40 – 15x20x40 – 20x20x40 cm

Hollow 20x20x40cm A001

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	2200
Typical block weight ²	kg	10.4	12.1	19
gross dry density ³	kg/m ³	650	756	1,188
blocks per pallet	pieces	72	72	72
weight of one pallet loaded (incl. pallet) ⁴	kg	856	985	1,547
height of one pallet loaded (incl. pallet)	cm	130	130	130
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	1,944	1,944	1,944
blocks per 4.12 m length truck (Hino type)	pieces	432	432	432

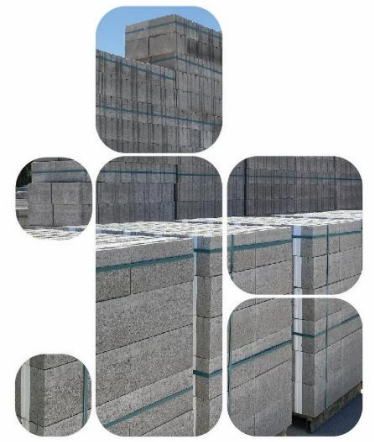
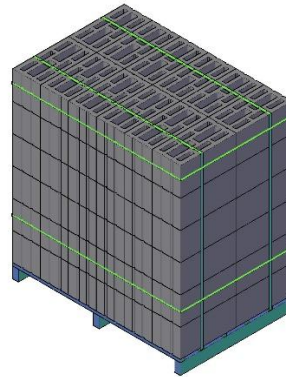
Technical Data Sheet

REGULAR & LIGHTWEIGHT HOLLOW BLOCKS

10x20x40 – 12x20x40 – 15x20x40 – 20x20x40 cm

Hollow 20x20x40cm A002

Logistics



Pallet		EURO / 2-way entry / steel
Pallet dimensions (W _p x L _p x 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	2200
Typical block weight ²	kg	11.8	13.7	21.6
gross dry density ³	kg/m ³	738	856	1,350
blocks per pallet	pieces	72	72	72
weight of one pallet loaded (incl. pallet) ⁴	kg	870	1,006	1,575
height of one pallet loaded (incl. pallet)	cm	130	130	130
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	1,944	1,944	1,944
blocks per 4.12 m length truck (Hino type)	pieces	432	432	432

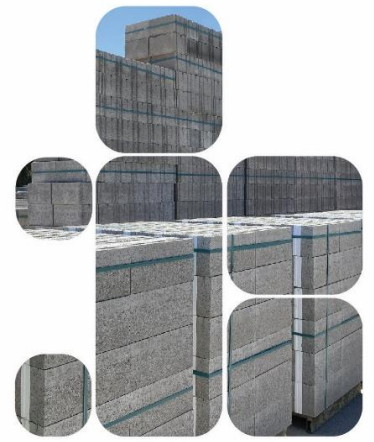
1. **Net dry density** is the oven-dry density of the lightweight concrete used to manufacture the blocks

2. **Typical block weight** is the average weight of several oven-dry blocks measured in accordance with **BS EN 771-3**.

3. **Gross dry density** is calculated by dividing the oven-dry block weight by its gross volume (m³)

4. Values are based on oven-dry weights.

5. The indicative maximum number of pallets is based on full loads using either a 12 m flatbed trailer or a 4.12 m flatbed Hino truck. For further details, please contact us



Technical Data Sheet

REGULAR & LIGHTWEIGHT HOLLOW BLOCKS

10x20x40 – 12x20x40 – 15x20x40 – 20x20x40 cm

Fair Face Hollow Block

Sibline Fair Face Hollow Block is a non-loadbearing concrete masonry unit for internal partitioning or external walls; it is produced with normal weight concrete (density 2200 Kg/m³). It is produced in accordance with EN 771-3 category D1 and ASTM C129 for concrete masonry units.

The block strength can be adjusted to the requirements of the Engineer. It is produced with a proprietary mix design containing silica sand, Portland cement, and special additives.

Sibline Fair Face hollow blocks are successfully passing the two hours fire test as per EN 53436, EN 1363, and EN 1364 standards ⁶. Moreover, Sibline Fair Face hollow blocks are successfully passing the two hours fire test based on ASTM E119.

The application of Sibline Fair Face Hollow Block is in no way different from the application of any other masonry block. To ensure a better performance of the wall and that no efflorescence showing on its surface, we recommend the following:

- The use of a waterproofing agent in the masonry mortar. This should ensure water tightness in the mortar and hence prevent efflorescence from showing on the surface.
- The application of a sealant or a water-repellent surface protector on the finished walls. This should provide a protective coating for the finished walls against exposure to external water sources such as rain.

⁶. A two-hour fire EN 1364 Certificate is available for a 10 cm Lightweight Hollow block with density 1400 kg/m³. A copy of the certificate can be sent upon request.

General comment: As part of Sibline continuous improvement process, Sibline keeps the right to change the dimensions and weights without prior notice. Please contact us prior to designing to get the latest specifications.