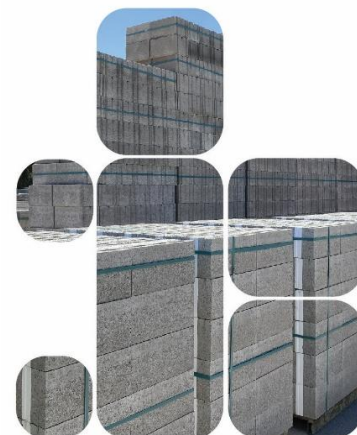




Technical Data Sheet

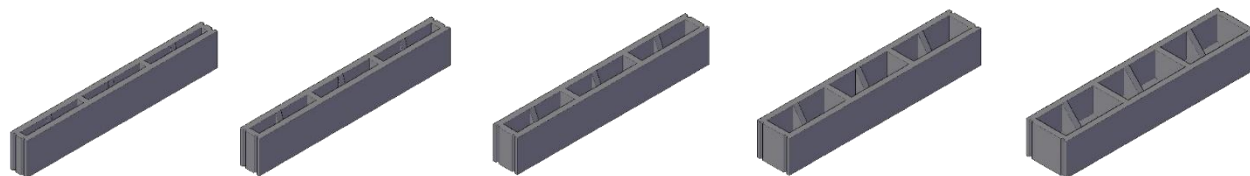
LIGHTWEIGHT LINTEL BLOCKS

10, 12, 15, 20, 25x20x120cm

Sibline **Lightweight Lintel** is a precast lightweight concrete element that acts as permanent formwork. It can be used for door and window openings up to 4.4 m in length. Available in widths ranging from 10 to 25 cm, it is suitable for both internal and external walls.

Easy to install and reinforce, the lintel must be filled with normal-weight concrete. It is designed to support several courses of masonry blocks above door and window openings and is suitable for residential, commercial, and industrial buildings.

Sibline Lightweight Lintel complies with **EN 771-3** for concrete masonry units made from lightweight aggregates. It is manufactured using a proprietary mix design containing Portland cement, silica sand, limestone aggregates and lightweight materials, including non-toxic, flame-retardant expanded polystyrene (EPS). Sibline Lightweight Lintels are typically produced with a concrete density of **1,000 kg/m³** and are available in a standard length of **120 cm**.



Dimensions in cm			
Width (W)	Height (H)	Length (L)	For Density (1000 Kg/m ³)
10	20	120	18.0
12	20	120	19.2
15	20	120	21.6
20	20	120	27.5
25	20	120	31.0



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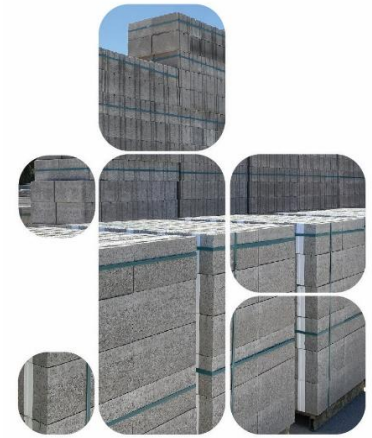
Main Road Sibline, Shouf, Lebanon



www.siblineib.com

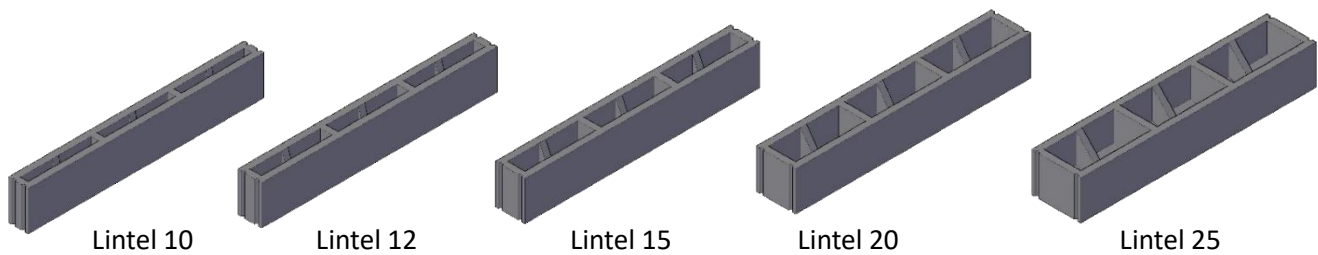
Technical Data Sheet

LIGHTWEIGHT LINTEL BLOCKS
10, 12, 15, 20, 25x20x120cm



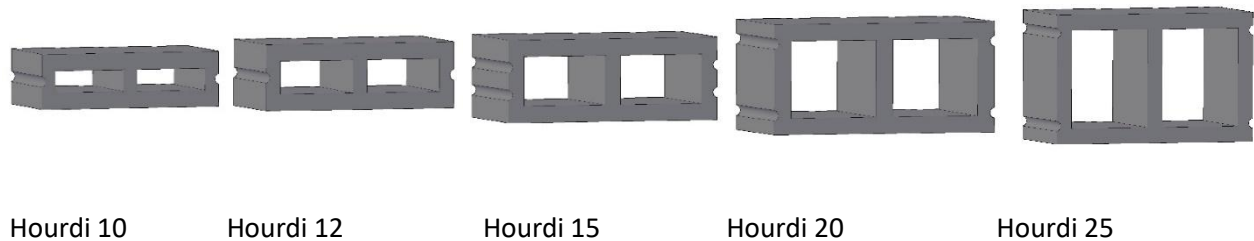
Lightweight precast elements recommended for the execution of Sibline Lightweight Lintel Solution.

Lightweight Lintels

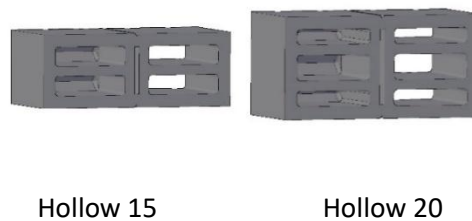


Blocks Recommended for the Jambs

Open Hourdi

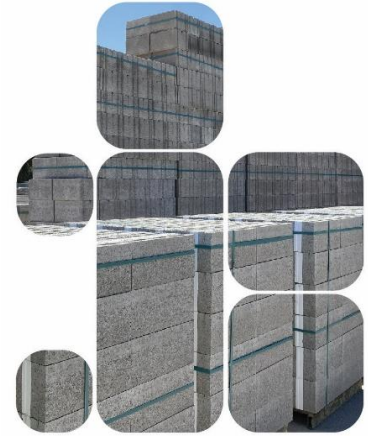


½ Open Split Hollow Block

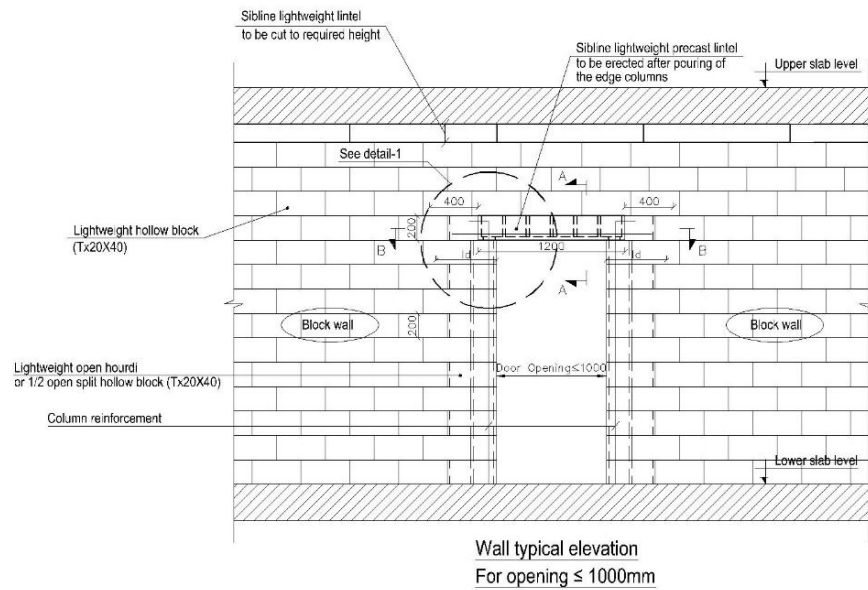
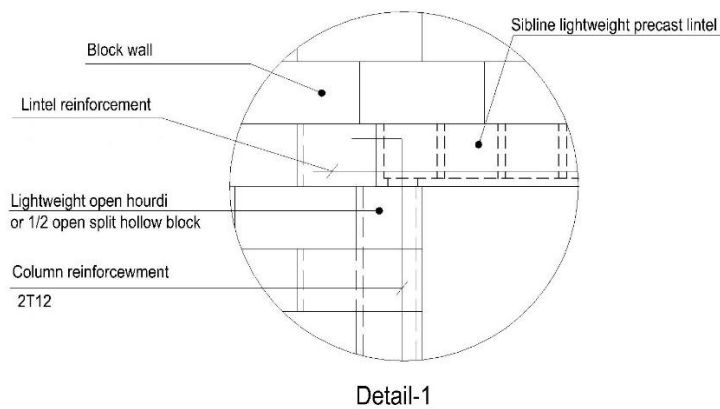


Technical Data Sheet

LIGHTWEIGHT LINTEL BLOCKS
10, 12, 15, 20, 25x20x120cm

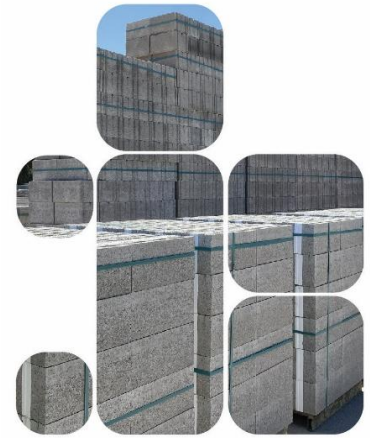


CASE 1: OPENING UP TO 1.0 METERS (all dimensions are in mm)

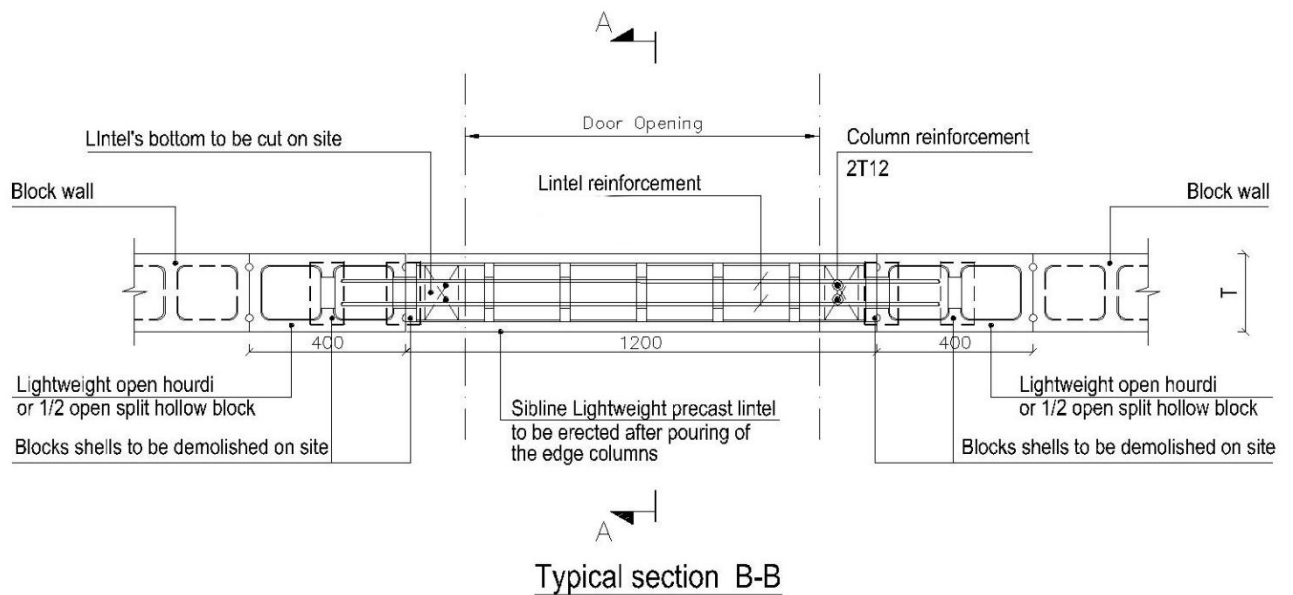


Technical Data Sheet

LIGHTWEIGHT LINTEL BLOCKS
10, 12, 15, 20, 25x20x120cm

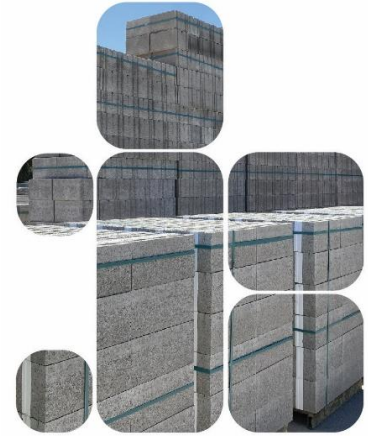


CASE 1: OPENING UP TO 1.0 METERS (all dimensions are in mm)

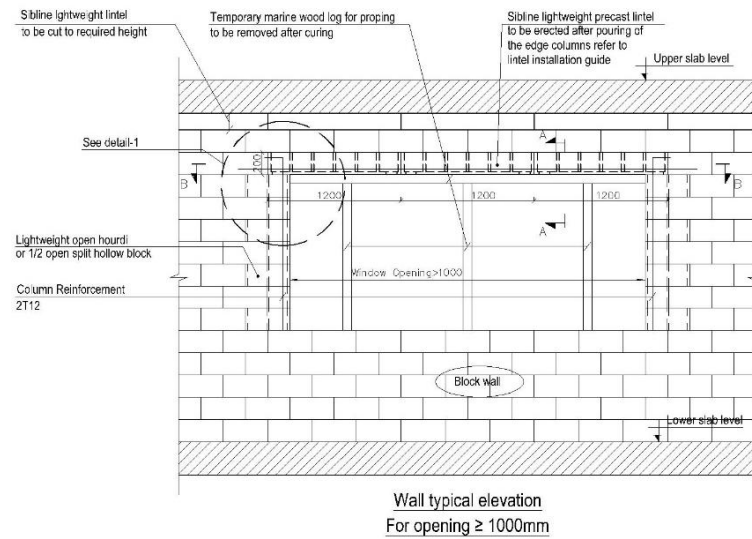
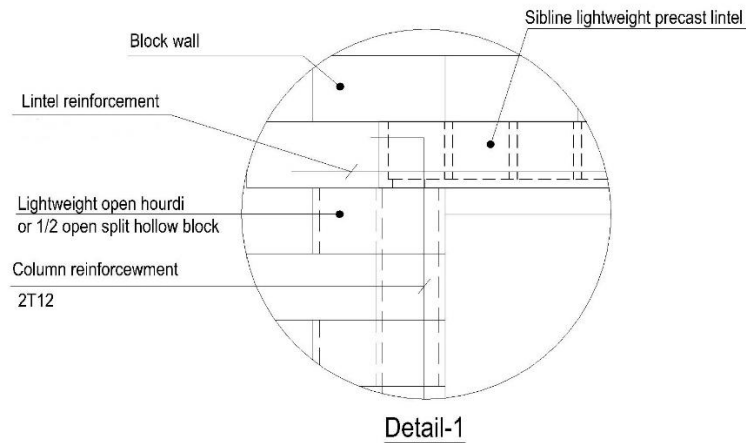


Technical Data Sheet

LIGHTWEIGHT LINTEL BLOCKS
10, 12, 15, 20, 25x20x120cm

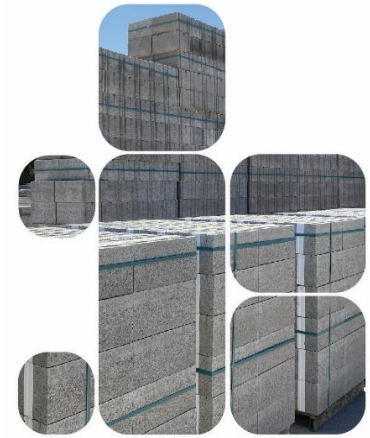


CASE 2: OPENING FROM 1.0 TO 4.4 METERS (all dimensions are in mm)

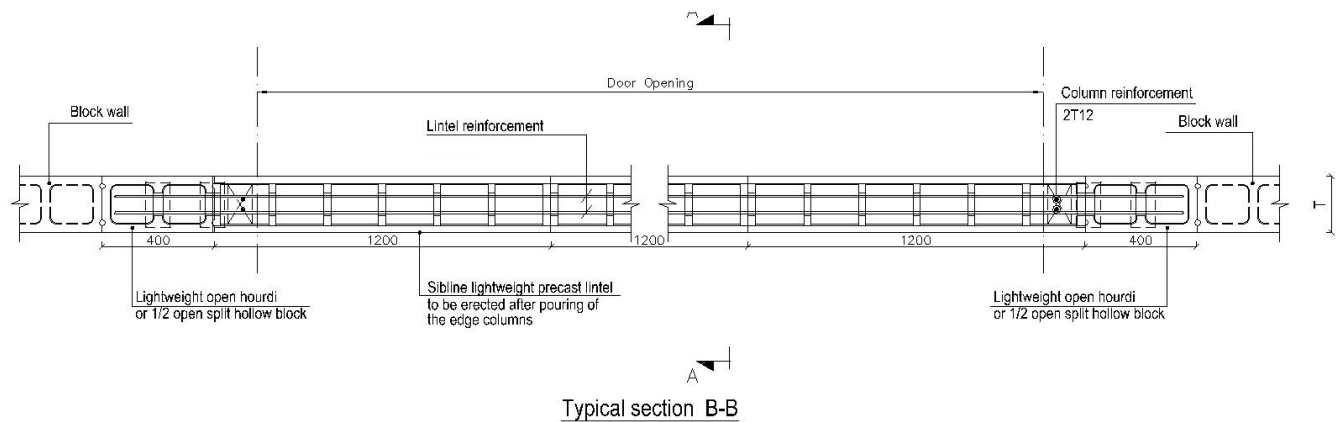


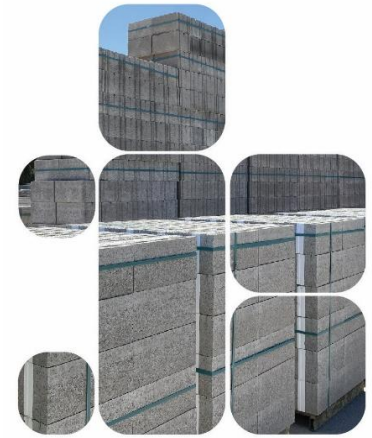
Technical Data Sheet

LIGHTWEIGHT LINTEL BLOCKS
10, 12, 15, 20, 25x20x120cm



CASE 2: OPENING FROM 1.0 TO 4.4 METERS (all dimensions are in mm)





Technical Data Sheet

LIGHTWEIGHT LINTEL BLOCKS **10, 12, 15, 20, 25x20x120cm**

Sibline **lightweight lintel** blocks passed successfully the two hours fire test when subjected to a direct flame at 850 °C¹. 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.

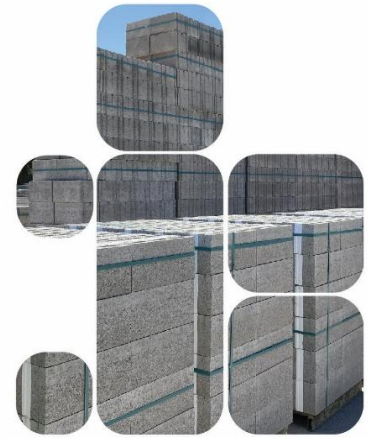
Sibline works exclusively with EPS producers that comply with EN RAR 2006 standards, particularly regarding the HBCDD concentration, which remains below 0.7%. The EPS used is free from HFCs, CFCs, and HCFCs, unlike extruded polystyrene (XPS), which is commonly used in Lebanon.

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.

One of the key advantages of this lightweight lintel block is its low U-value compared to other construction materials, which helps reduce energy consumption throughout the building's lifetime. Its low water absorption and low permeability make it an ideal choice for external walls and for applications where there is a risk of condensation due to temperature gradients.

Sibline lintel Block is much easier to cut using a saw or hammer compared to regular cementitious blocks. Its lightweight makes it easier and more economical to handle thus reducing the risk of injuries during manipulation and decreasing the cost of workmanship.

1. A two hours fire ACTS Certificate is available for a 10, 15 and 20 cm Lightweight lintel block thick shape with density 1000 kg/m³. A copy of the certificate can be sent upon request.

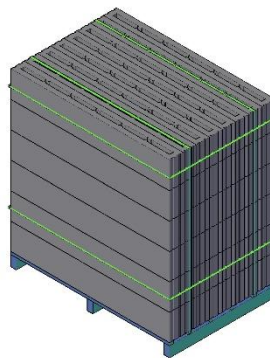


Technical Data Sheet

LIGHTWEIGHT LINTEL BLOCKS
10, 12, 15, 20, 25x20x120cm

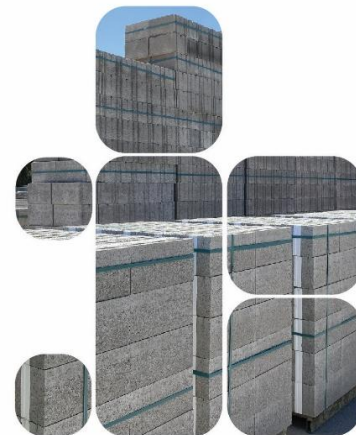
LW Lintel 10x20x120cm

Logistics



Pallet type		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) ²	Unit	1000
Typical block weight ³	kg	18
gross dry density ⁴	kg/m ³	750
blocks per pallet	pieces	55
weight of one pallet loaded (incl. pallet) ⁵	kg	1,010
height of one pallet loaded (incl. pallet)	cm	130
pallets per 12 m length trailer ⁶	pallets	27
pallets per 4.12 m length truck (Hino type) ⁶	pallets	6
blocks per 12 m length trailer	pieces	1,485
blocks per 4.12 m length truck (Hino type)	pieces	330



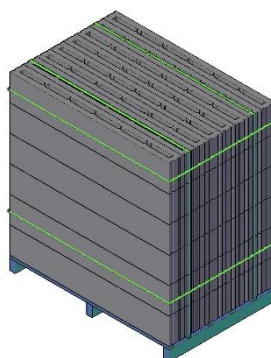
Technical Data Sheet

LIGHTWEIGHT LINTEL BLOCKS

10, 12, 15, 20, 25x20x120cm

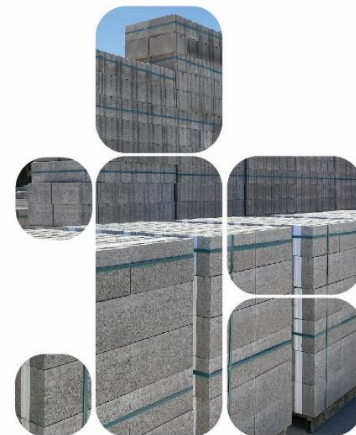
LW Lintel 12x20x120cm

Logistics



Pallet type		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) ²	Unit	1000
Typical block weight ³	kg	19.2
gross dry density ⁴	kg/m ³	667
blocks per pallet	pieces	45
weight of one pallet loaded (incl. pallet) ⁵	kg	884
height of one pallet loaded (incl. pallet)	cm	130
pallets per 12 m length trailer ⁶	pallets	27
pallets per 4.12 m length truck (Hino type) ⁶	pallets	6
blocks per 12 m length trailer	pieces	1,215
blocks per 4.12 m length truck (Hino type)	pieces	270



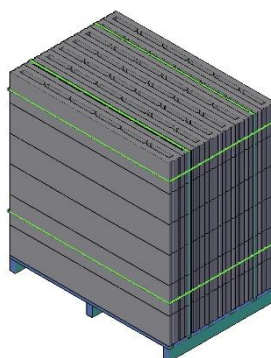
Technical Data Sheet

LIGHTWEIGHT LINTEL BLOCKS

10, 12, 15, 20, 25x20x120cm

LW Lintel 15x20x120cm

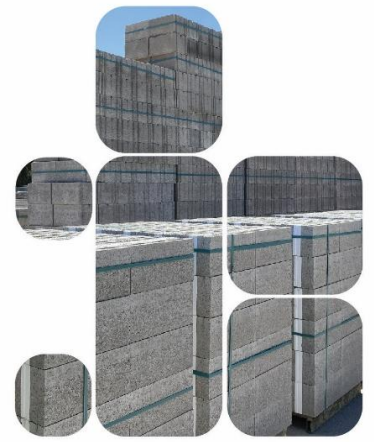
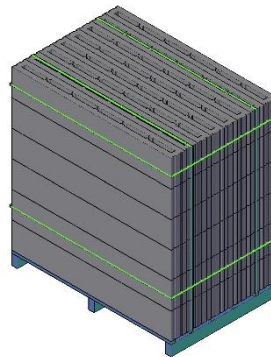
Logistics



Pallet type		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

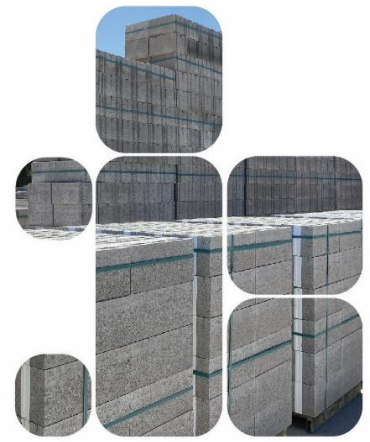
Net dry density (kg/m ³) ²	Unit	1000
Typical block weight ³	kg	21.6
gross dry density ⁴	kg/m ³	600
blocks per pallet	pieces	40
weight of one pallet loaded (incl. pallet) ⁵	kg	884
height of one pallet loaded (incl. pallet)	cm	130
pallets per 12 m length trailer ⁶	pallets	27
pallets per 4.12 m length truck (Hino type) ⁶	pallets	6
blocks per 12 m length trailer	pieces	1,080
blocks per 4.12 m length truck (Hino type)	pieces	240

Technical Data Sheet

LIGHTWEIGHT LINTEL BLOCKS**10, 12, 15, 20, 25x20x120cm**LW Lintel 20x20x120cmLogistics

Pallet type		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) ²	Unit	1000
Typical block weight ³	kg	27.5
gross dry density ⁴	kg/m ³	573
blocks per pallet	pieces	25
weight of one pallet loaded (incl. pallet) ⁵	kg	707
height of one pallet loaded (incl. pallet)	cm	130
pallets per 12 m length trailer ⁶	pallets	27
pallets per 4.12 m length truck (Hino type) ⁶	pallets	6
blocks per 12 m length trailer	pieces	675
blocks per 4.12 m length truck (Hino type)	pieces	150



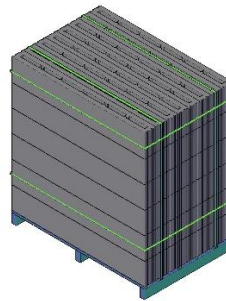
Technical Data Sheet

LIGHTWEIGHT LINTEL BLOCKS

10, 12, 15, 20, 25x20x120cm

LW Lintel 25x20x120cm

Logistics



Pallet type		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) ²	Unit	1000
Typical block weight ³	kg	31
gross dry density ⁴	kg/m ³	516
blocks per pallet	pieces	20
weight of one pallet loaded (incl. pallet) ⁵	kg	640
height of one pallet loaded (incl. pallet)	cm	130
pallets per 12 m length trailer ⁶	pallets	27
pallets per 4.12 m length truck (Hino type) ⁶	pallets	6
blocks per 12 m length trailer	pieces	540
blocks per 4.12 m length truck (Hino type)	pieces	120

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

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

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

5. Values are based on oven-dry weights.

6. 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.