

# Ytong Block and Lintel Specifications 2024



## Ytong Blocks

Mineral-based and fire resistant Ytong blocks with high thermal insulation properties are an ideal wall material for all building systems. G2 class products are used in the construction of infill walls, and G4 class products are used in the construction of load-bearing masonry walls. It is a high quality and high-performance solution for exterior, interior, and fire walls.

Produced from completely natural raw materials, it is environmentally friendly, soundproof and is an A1 non-combustible fire reaction class. The light-weight Ytong blocks help to reduce earthquake forces acting on the structure.

### Advantages:

Smooth surface and millimetric dimensions.

The smooth surface also reduces plaster consumption.

Easy cutting and sizing.

Suitable for angled and curved walls.

Ceramic tiles can be laid directly on it.

Contributes to the prevention of condensation and mould formation.

Thanks to its dimensions, blockwork can be completed quickly and easily.

## G2 and G4 block specifications

Production Class	Dry Density	Mean Compressive Strength	Thermal Conductivity value ( $\lambda_h$ )	Design Weight*	Transport Weight**	Reaction To Fire Class	Fire Resistance	Dimensions***
	kg/m <sup>3</sup>	N/mm <sup>2</sup>	W/mK	kg/m <sup>3</sup>	kg/m <sup>3</sup>			LxDxH mm
G2/internal	350	2,5	0,11	490	560	A1	EI 120 EI 360	600x150x250
G4/external	600	5,0	0,19	730	840	A1	EI 120 EI 360	400x240x200
G4/facing****	600	5,0	0,19	730	840	A1	EI 120 EI 360	600x50x200

\* Design weight is the weight of the unplastered wall formed with the relevant block.

\*\* Transport weight includes pallet, corner protection and shrink wrap.

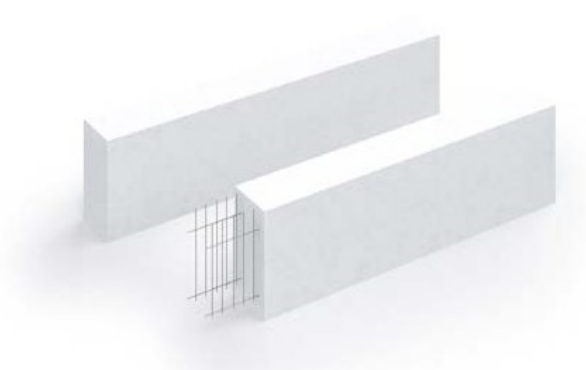
\*\*\* Dimensional tolerance is  $\pm 1.5$  mm in length and thickness,  $\pm 1.0$  mm in height for G2 and G4 class products.

\*\*\*\*Facing blocks are used as the outer blocks for the ring beam construction just below the top plate.



## Ytong Lintels

Walls are able to be completed quickly with ready-to-use Ytong Lintels.



Ytong Lintels are the complementary product to block walls. They contain steel mesh reinforcement and should not be cut.

### **Advantages:**

Ready-to-install on delivery.

Labour and time savings in blockwork.

Non-combustible (Class A1).

Smooth surface and millimetric dimensions.

Monolithic and does not require an additional thermal insulation layer.

It contributes to the insulation on the walls.

It does not form condensation or mould.

Fast and easy installation.

Mechanical properties and dimensions are compatible with Ytong blocks.

## Ytong Lintel specifications

Production Class	Dry Density	Mean Compressive Strength	Thermal Conductivity value ( $\lambda_h$ )	Design Weight	Transport Weight*	Reaction To Fire Class	Dimensions**
	kg/m <sup>3</sup>	N/mm <sup>2</sup>	W/mK	kg/m <sup>3</sup>	kg/m <sup>3</sup>		LxDxH in mm
G3/05	500	3,5	0.16	630	720-740	A1	<=2980x<=240x250
G4/06	600	5,0	0.19	740	840-880	A1	<=2980x<=240x250

\* Transport weight includes pallet, corner protection and shrink wrap.

\*\* The standard Ytong Lintel height is 250mm. Lintels above this height and longer than 2980mm would need to be constructed on site.

## Ytong Thinbed Mortar N101

A cement-based adhesive mortar has been especially developed for the construction of Ytong walls with blocks. It is applied to the joint surface with a special trowel at a thickness of 1-3 mm. Compared to the cement-based masonry mortar used in the traditional construction method on walls, it increases the thermal insulation property of the wall by reducing the horizontal and vertical joint thickness in the block joints. The joint is also stronger than the block once cured.

Description	Consumption kg/m <sup>3</sup>	Packaging	Place of use	Colour	Compressive Strength N/mm <sup>2</sup>
Cement based joint material designed for walls formed with Ytong blocks.	15	25kg	Internal and external walls formed with AAC masonry units.	Grey	≥ 10 (M10 class)



## Hand and assembly tools

Special hand tools are used in the application and assembly of Ytong blocks and Ytong panels. The processes are completed quickly, easily and with minimal waste. Most of these tools are available locally.



We will supply the chasing tool for electrical conduit and plumbing lines and the thin-bed mortar applicator shown below with each order.

