

YTONG AAC Block is in compliance with BS 6073: Part 1 & BS EN 771: Part 4 as solid block. The technical specifications of YTONG AAC Block meet the requirements of:

1. Building (Construction) Regulation;
2. Hong Kong Housing Authority;
3. Architectural Services Department;
4. General Specification for Civil Engineering Works by the Government of Hong Kong SAR.



The advantages of “YTONG” AAC Block over traditional concrete block are:

FEATURE	ADVANTAGES	IMPROVEMENT
Light Weight	10% reduction in overall building load	Less foundation cost Less shear wall thickness Larger net floor area
Fire & Heat Insulation	High fire rating	2 hour fire rating for 75mm thickness
	High heat insulation	Less energy consumption for air conditioning
Precision	Skim plaster	Very smooth and flat surface Less time and material for plastering
Environmental Friendly	No special reinforcement for partition	Less slab reinforcement Less partition load allowance More flexible floor layout revision
	Drywall system Elimination of wet application	Clean and tidy construction site Less material wastage

Product Data

Product	Standard dimension			Density (Dry Weight)	Remarks
	Length (mm)	Height (mm)	Thickness (mm)		
YTONG AAC Block	600 ± 3	200 ± 1.5	75 ± 1 100 ± 1 150 ± 1.5 225 ± 1.5	500 kg/m ³ ± 50	Comply to BS 6073 Part 1 BS EN 771: Part4

Technical Data

Density (Dry Weight)	Shrinkage	Compressive Strength	Sound Insulation	Thermal Conductivity
325 - 750 kg/m ³	0.05%	3.0 - 7.5MPa	44 dB (150mm block Wall fair face)	0.11 - 0.16W/m K

Fire Rating Performance of YTONG AAC Block Wall

	Fire Resistance Period (hr)*			
	2	4	4	4
Thickness of AAC Block (mm)	75	100	150	225

Comply with BS 476: Part 22 and BS EN 1364-1:1999

* non-loadbearing

Partition Load Allowance

According to BS 5234: Part 1 Section 2.4.1 and Building (Construction) Regulation, floor slab/beam can be designed for uniform distributed partition load allowance (i.e. 1/3 of weight of finished partition per meter), instead of with partition walls shown on building plans.

Finishes

YTONG AAC Block can accept all types of plastering material. Due to the high accuracy of the wall verticality and alignment, a single coat plaster of 3-5 mm thick is recommended.

For internal wall, the following materials are particularly suitable:

1. 1:6 cement sand plaster
2. Gypsum plaster or 1:1:3 gypsum lime sand plaster
3. Pre-mixed Base Plasters developed for YTONG

To improve the adhesion of plastering material on smooth surface and high suction backgrounds, Moisture Sealer is recommended.

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