

YTONG AAC Block is in compliance with BS 6073: Part 1 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 | 3 hour fire rating for 75mm thickness |
| | High heat insulation | Less air conditioning consumption |
| 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 |

Technical Data

| Density (Dry Weight) | Shrinkage | Compressive Strength | Sound Insulation | Thermal Conductivity |
|----------------------------|-----------|----------------------|-----------------------------------------|----------------------|
| 500 kg/m ³ ± 50 | 0.05% | 5.0MPa ± 0.5 | 39dB (100mm block Wall fair face) | 0.16W/m K |

Fire Rating Performance of YTong AAC Block Wall

| | Fire Resistance Period (hr)* | | | |
|-----------------------------|------------------------------|-----|-----|-----|
| | 2 | 4 | 6 | |
| Thickness of AAC Block (mm) | 75 | 100 | 150 | 225 |

* 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 think 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. DAIDO Base Plasters developed for YTONG

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

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