

YTONG (AAC) Precast Concrete Panel (Internal Partition)

YTONG (AAC) Precast Concrete Panel is made from homogenous and solid material reinforced with steel mesh with thickness of 75, 85, 100, 125mm and 150mm. It is an ideal substitution for conventional concrete block wall for internal partitioning. The YTONG panel is tailor-made to headroom in full height without any horizontal joints on the panel which in turns provides better rigidity and stability for the wall.

Technical Specifications

Design in accordance with:

- Hong Kong Building (Construction) Regulation,
The Structural Use of Concrete 2004
- BS 8110 Structural Use of Concrete,
- RILEM Recommended Practice for Autoclaved Aerated Concrete
- JISA5416 Autoclaved Lightweight Aerated Concrete Panel of Japan
- DIN 4223 Structural Use of Reinforced Autoclaved Aerated Concrete Panel



The advantages of “YTONG” AAC Precast Concrete Panel over hollow concrete panel 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-trade on site	Clean and tidy construction site Less material wastage

Quality Assurance

- EN ISO 9001:2000
- JIS Certification

Dimensions

Length (mm)	Width (mm)	Thickness (mm)
800 - 6000 (max)	300 - 630 (max)	50 - 300 (max)

*Panel width is standardized as 600mm wide, other panel dimensions available upon request.

Density

Nominal Density 500 - 600 kg/m³

Compressive Strength

2.8 – 5.0MPa (depending on the designed strength class)

Partition Load Allowance

According to the Calculation of Loading, the maximum heights of different thickness of the wall are as follow:

Thickness (mm)	75	85	100	150
Height (mm)	3500	3750	4500	6000

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