

AEROCRETE

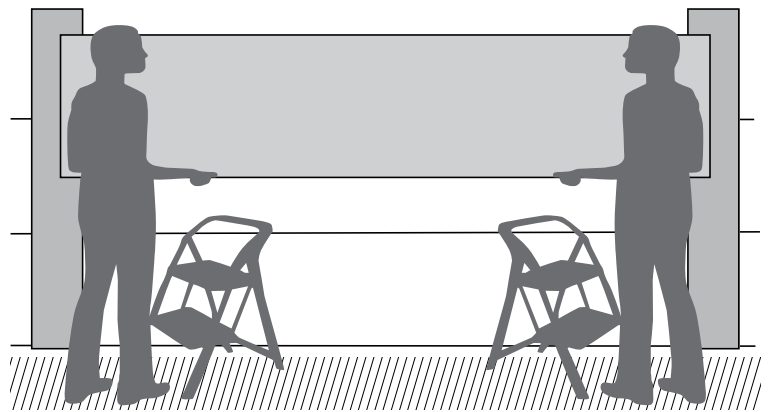
PERIMETER FENCING

Aerocrete is a lightweight aerated concrete with interior reinforcing steel bars. Aerocrete fence panel system can be easily erected with modular panels and pre-made aerocrete columns to create an attractive boundary fence that provides privacy, security and sound abatement. The system favours both DIY and trade customers and provides the look and feel of a solid plastered masonry without the hefty price.

KEY FEATURES

- Complete system of panels and columns
- Panels – WIDTH adjustable and Column HEIGHT adjustable – simply cut with a masonry or diamond blade in a power saw (or with a hacksaw if needed)
- Lightweight system – DIY and Trade friendly
- Ready to paint once installed
- Large cost saving versus solid plastered masonry fence
- Provides privacy, security and sound abatement
- Panels being 600mm high allow for quick & easy construction of 1200, 1800 or 2400mm high fence

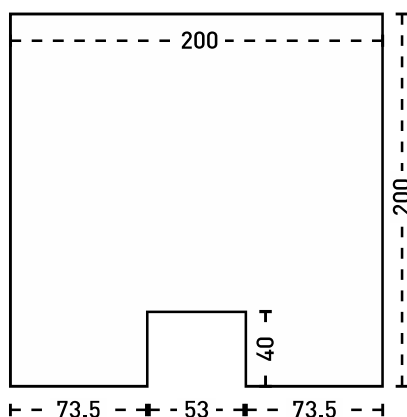
Lifting and slotting the panels in place is a two person job and will greatly reduce damage



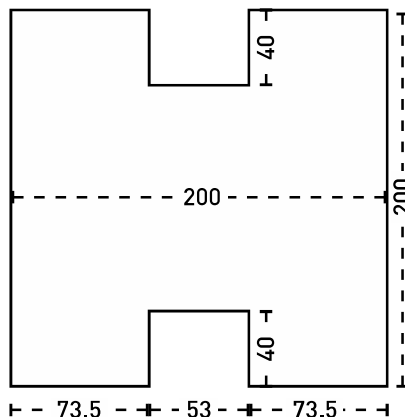
Panels simply fit together and affix with strong adhesive.

SYSTEM OVERVIEW

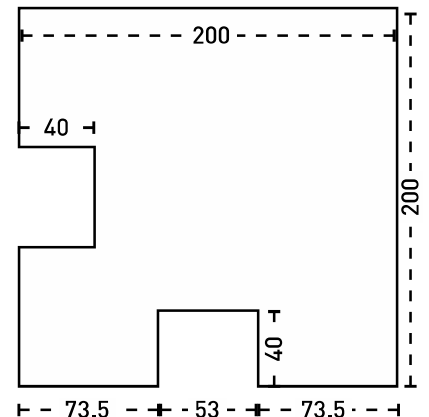
Aerocrete 1 way column
(End post)



Aerocrete 2 way column
(H post)



Aerocrete 90° column
(Corner post)



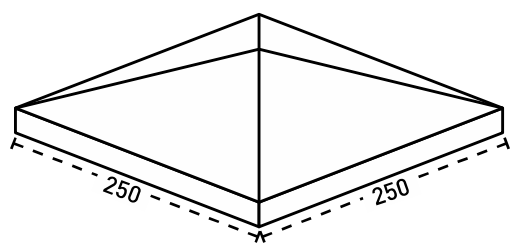
Aerocrete panels

(600mm H x 2200mm W x 50mm Thick)



Aerocrete cap

(Column top cap)

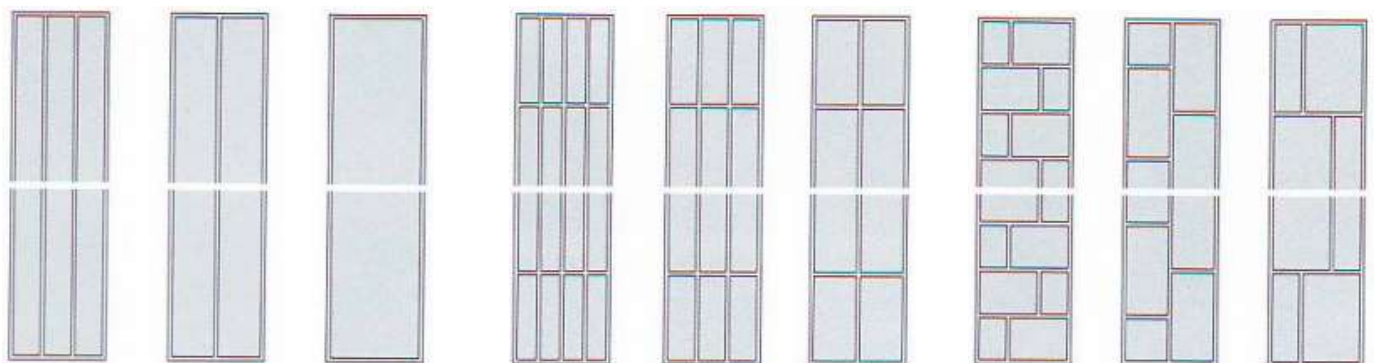


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PATTERN OPTIONS AVAILABLE



more patterns available, contact us for details

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SPECIFICATIONS

Properties			JIS A 5416 specifications	Design baseline values (S 58 - 3/11)	Remarks						
Weight	Density	Absolute Dry	520kg/m ³	450kg/m ² ~550kg/m ²							
		Air Dry	600kg/m ³		Design Dead Weight 650kg/m ²						
Strength	Compressive Strength	Air Dry	4.00N/mm ² or above	3.00N/mm ² or above	Allowable Compressive Stress Long term: 13kgf/cm ² Short term: 20kgf/cm ²						
	Flexural Strength		1.00N/mm ² or above								
	Shear Strength		0.50N/mm ² or above		Allowable Shear Stress Long term: 0.8kgf/cm ² Short term: 1.2kgf/cm ²						
	Tensile Strength		0.50N/mm ² or above								
	Modulus of Elasticity		1800N/mm ² or above		1.75*10 ⁴ kgf/cm ²						
Heat	Thermal Conductivity	Air Dry	0.174W/m - K								
	Specific Heat	Air Dry	1210J/kg - K								
	Thermal Expansion Coefficient	Air Dry	7.0*10 ⁻⁶ /°C								
	Thermal Resistance	100mm thick	0.56[m ² - K]/W		5.3tm2K/w or above (t is panel thickness)						
	Fire Resistance	100mm thick	Partition (interior) wall panel, exterior wall panel - 4 hours								
Sound	Sound Insulation	100mm thick without surface treatment	Frequency (HZ)	125	250	500	1000	2000	4000		
			Transmission Loss (dB)	30	31	28	35	44	46		
			Sound Absorption Rate (%)	6	9	11	11	17	21		
Water	Water Absorption Rate	Totally Underwater	36°/vol							10cm ³ cube immersed 3cm under water for 28 days	
		Partly Underwater	30°/vol							10cm ³ cube immersed 3cm under water for 28 days	
	Moisture Absorption Rate		12.4°/vol							At 20°C RH 90% environment for 33 weeks	
	Vapor Resistivity		12239mhPa/g							20°C RH	
	Dry Shrinkage		0.05%	0.05% or above						Length shrinkage rate for basic length	