



VERSION 1.0

NASAH

MATERIAL PROPERTIES

PERFORMANCE
INFORMATION

Table - Nasahi Material Properties

PROPERTY	STANDARD	VALUE	UNITS
Panel Thickness d		50, 62 & 75	mm
Panel Width w		600	mm
Panel Length L		2200mm	
Panel edge profile		Square Edge	
AAC Dry Density, ρ	AS 5146.2 Appendix C	525	kg/m ³
AAC Density for design, ρ_d	AS 5146.2	590	kg/m ³
AAC Density for transport and lifting, ρ_{tran}	AS 5146.2	775	kg/m ³
AAC Characteristic Compressive Strength, f_{ck}	AS 5146.2 Appendix D	3.1	MPa
AAC Characteristic Flexural Strength, f_{ut}	AS 5146.2 Appendix E	0.50	MPa
Reinforcing yield stress	AS 4671	>500	MPa
Reinforcing tensile strength	AS 4671	>600	MPa
Reinforcing weld strength	AS 4671	>0.5 of force at yield of a longitudinal bar	
Design Serviceability Limit State Deflection Limit, max	AS 5146.1	SPAN/250	
Youngs Modulus (E)	AS5146.2:2018	1800	MPa

Note:

1. Dry density is achieved by oven drying specimens so that the moisture content is close to 0%.
2. A design density of 590kg/m³ has been calculated using a 12.4% moisture content.