VERSION 1.1

NASAHI MATERIAL PROPERTIES

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Table - Nasahi Material Properties

PROPERTY		STANDARD	DENSITY		UNITS
Panel Thickness d			50 & 75	75 only	mm
Panel Width w				600	mm
Panel Length L	1800 1800) up to 3000 for) up to 3300 for	50mm 75mm	1800 up to 3300	mm
Panel edge profile			Squa	are Edge	
AAC Dry Density, ρ	AS 5146.2 Append	ix C	525	435	kg/m ³
AAC Density for design pd	AS 5146.2		590	490	kg/m ³
AAC Density for transport and lifting <i>p</i> tran	AS 5146.2		775	650	kg/m³
AAC Characteristic Compressive Strength, <i>f</i> ck	AS 5146.2 Append	ix D	3.1	2.0	MPa
Characteristic Ultimate Limit State Bending Moment Capacity (Mk)	AS 5146.2 Append	ix E	0.34	0.78	kNm/m
Reinforcing yield stress	AS 4671		>500	>500	MPa
Reinforcing tensile strength	AS 4671		>600	>600	MPa
Reinforcing weld strength	AS 4671		>0.5 of for longit	ce at yield of a udinal bar	
Design Serviceability Limit State Deflection Limit, max	AS 5146.1		SPA	N/250	
Youngs Modulus (E)	AS5146.2:2018		1	800	MPa

Notes:

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.
- 3. A design density of 490kg/m³ has been calculated for 75mm panels using a 12.4% moisture content.

