

## NCIA Specification Sheet

NCIA products conform to Group B1b. NCIA tiles meet and exceed requirements under International/Australian Standards AU ISO 13006-2020. NCIA warrants its tiles in accordance with International/Australian Standards AU ISO 13006-2020.

NCIA tiles are classified as a low water absorption vitrified tile under Australian Standards.

Category	NCIA Production Standards	AU ISO 13006-2020
Length and Width	+/- 0.5mm (difference from work size)	+/-2.0mm (difference from work size)
Thickness	+/- 0.5mm (difference from work size)	+/- 0.5mm (difference from work size)
Centre Curvature	+/- 0.5mm	+/-2.0mm
Straightness of Edge	+/- 0.5mm	+/-1.5mm
Edge Curvature	+/- 0.5mm	+/-2.0mm
Rectangularity	+/- 0.5mm	+/-2.0mm
Resistance to Surface Abrasion	Minimum PEI 3 (750 or 1500 cycles passed)	Report abrasion class and cycles passed
Stain Resistance	Minimum Class 4	Minimum Class 3
Resistance to Chemicals		
Resistance to low concentrations of acids and alkalis	Class A	Manufacturer to state classification
Resistance to high concentrations of acids and alkalis	Class A	Test method available
Resistance to household chemicals and swimming pool salts	Class A	Minimum B
Water Absorption	Less than 3%	0.5-3%
Resistance to Crazing	No Crazing	Required
Resistance to Frost	Resistant	Required
Moisture Expansion	Less than 0.01%	Test method available
Modulus of Rupture (N/mm <sup>2</sup> )	Minimum 30N/mm <sup>2</sup>	Minimum 30N/mm <sup>2</sup> . Individual minimum 27N/mm <sup>2</sup>
Surface Quality	Minimum 98% Defect Free	Minimum 95% defect free
Impact Resistance	Coefficient of Restitution 0.93	Test method available (light duty 0.55)
Resistance to Fire	Non-Flammable	No requirement
Gaseous Emissions when Exposed to Fire	No Emission	No requirement
VOC Emissions	No Emission	No requirement
Fading in UV/Sunlight	Color Permanence	No requirement
Resistance to Scratch	Minimum MOHS 6.5	No requirement

Work Size	Nominal Thickness
300*300	6.3mm
450*450	7.5mm
500*500	8mm
300*600	8.5mm
600*600	9mm

Work Size	M2 per pallet	Boxes per pallet	M2 per box	Pieces per box	Pallet weight kgs
300*300	95.04	48	1.98	22	1335
450*450	113.6	80	1.42	7	1800
500*500	72	48	1.50	6	1224
300*600	69.12	48	1.44	8	1248
600*600	69.12	48	1.44	4	1290

Chemical Composition (Average)	%
Na <sub>2</sub> O	2.76
K <sub>2</sub> O	3.95
MgO	0.69
CaO	0.58
Mn <sub>3</sub> O <sub>4</sub>	0.08
Al <sub>2</sub> O <sub>3</sub>	18.30
Fe <sub>2</sub> O <sub>3</sub>	1.40
SiO <sub>2</sub>	70.00
- (Crystalline Silica)	- (15-25%)
TiO <sub>2</sub>	0.66
P <sub>2</sub> O <sub>5</sub>	0.06
SO <sub>3</sub>	<0.01
LOI	<1.70

Product Warranty	Term
Domestic Use	10 years
Commercial Use	7 years

Other	Reference
Operating in NSW under Environment Protection License	11956
MSDS	<a href="http://www.ncia.com.au">www.ncia.com.au</a>
Cleaning/maintenance recommendation	<a href="http://www.ncia.com.au">www.ncia.com.au</a>
Contact	<a href="mailto:sales@ncia.com.au">sales@ncia.com.au</a>
Raw materials	Sourced from NSW & Victoria
Employment	60 staff
Current Production Capacity	7million m2 per annum
Australian Made License	8934
Member of the Australian Tile Council	

