Sustainability
Data Sheet

Range name	Knight Tile Gluedown
Product description	Inherently impermeable and easy to clean due to its PVC construction. A premium decorative floor finish for use in heavy duty residential and commercial areas A heterogeneous (multi-layered), resilient luxury vinyl tile (LVT) floor covering product, designed to be glued with hard-set adhesive.
LVT Format	Gluedown
Type	Wood-look planks Stone-look tiles
Thickness	2mm
Wear layer	0.3mm Features a moderate surface emboss to aid in aesthetics, slip resistance, and ease of cleaning.
Slip ratings	R9-R10/P2-P3

Manufacturing

Independent factory audits	We commission third-party audits of all our factories for both environmental and social performance, which includes working conditions, hours worked, and workplace health and safety.
Manufacturing factory location	Shanghai, China
Primary raw source materials	PVC (26.00%), $CaCO_3$ (40.00%), Re-grind (21.00%) Ortho-phthalate free
Embodied carbon intensity (A1–A3, per functional unit)	7.17 kg CO_2 eq per m^2 with 0 kg CO_2 eq offset
Recycled water used	Our manufacturing partners operate closed-loop water systems, with some facilities using 100% recycled water for industrial processes, significantly reducing reliance on potable water.
Post-industrial recycled content	Up to 50% in the backing layer
ISO14001 certified factory (which provides a framework for measuring and reducing environmental impact, from facility water usage to eco-friendly product packaging)	Yes- An internationally agreed standard that defines requirements for systems to manage, monitor and control our use of resource and waste.
ISO9001 certified factory (for product-quality management)	Yes - An internationally recognised standard for quality management systems, helping ensure consistent product quality and continual improvement.
Supply Chain Transparency	Karndean Global, along with our factory suppliers, are members of Sedex. We use the Sedex framework to assess and improve their sustainability performance. We use independent auditors, Eurofins, and the 4 pillar Sedex framework to review the suppliers on their social performance, environmental performance, business ethics, and labour conditions. Full audit results are made available to customers who are also Sedex members.

Installation & in use certifications

Stock location	Melbourne, Australia
Adhesives	Low VOCs, water-based and solvent free adhesives are available
Packaging:	
Primary Packaging	Cardboard, 100% recyclable
Tertiary Packaging	Wood pallets, plastic wrapping and banding
Crystalline Silica (Quartz) Content (wt%)	Not detected
PVC Stewardship	Silver

Floorscore certified	Yes - awarded low indoor air emissions of Volatile Organic Compounds (VOCs)
Indoor air comfort	Eurofins Indoor Air Comfort Gold: Awarded to products with low VOC emissions
Environmental Product Declaration (EPD)	Cradle to Grave/ Full LCA (A1-C4) This product is covered by a third-party, SCS Global, verified Environmental Product Declaration (EPD), specific to this product range. Our EPDs provide transparent, independently verified data that reflects the actual manufacturing, transport, and material inputs relevant to the Australian market.
Volatile organic compounds (VOC)	A+

Leadership in Energy and Environment Design (LEED)

Knight Tile gluedown qualifies for the below LEED credits:

Building Type	LEED Credit Description
NC (New Construction)	EQ4.3 Low Emitting Products - Flooring Systems
EB (Existing Buildings)	MR3. Sustainable Purchasing - Facilty Alterations
H (Home)	MR2. Environmentally Preferable Products
AWTA to ISO 4760:2022€	Topical Moisture Resistance - Assembled Joint (Modified) with no evidence of water penetration to the substrate through the assembled joint.

Building Research Establishment Environmental Assessment Method (BREEAM)

Knight Tile gluedown holds the below generic ratings within the BRE Global Green Guide to Specification.

Sector	Element Reference	Rating
Healthcare	821570039	A+
Commercial	821570039	A
Education	821570066	A+
Domestic	821570066	A

End of life and performance data

Warranty		Commercial - 10 years Domestic - 35 years Is warranted to exceed AU building code durability requirements (5 years) when installed in areas appropriate to its ISO 10582 classification assessment.
Recyclable		Unused installation offcuts are eligible for recycling through the ResiLoop take-back scheme, with a national collection system now in place. This product is designed to minimise on-site waste during installation by maximising material efficiency and reducing offcuts.
Reusable		No
Fire Test Certificate		Available via the Downloads Centre at karndeancommercial.com
Environmental Product Declaration (EPD)		Click here The EPD provides independently verified life cycle assessment data, including embodied carbon, energy and water values, based on the declared functional unit and methodology applicable to the Australian market.

Brand

The Anti-Greenwash Charter		Proudly the first Australian company to sign the Anti-Greenwash Charter.
Modern Slavery Statement		Available upon request
Australian Resilient Flooring Association		Member

ResiLoop		Founding Member
Product Aware profile		Wood-look planks Stone-look tiles