



# CLAY PRODUCTS GUIDE

## Explanation and principles

The market offers a large choice of clay products. Their environmental impact (in particular carbon footprint) can vary significantly depending on a variety of factors such as, but not limited to:

- The addition of binders and stabilisers (such as cement).
- The distance and type of transportation required from quarry to building site.
- Whether they are fire-cured or air-cured products.
- How readily they can be salvaged for reuse after demolition.

Clay products are commonly heavy and should wherever possible be sourced from local manufacturers, avoiding the atmospheric emissions resulting from long-haul transportation. The use of second-hand products, and products including recycled content should be preferred. These choices will help minimise the environmental impact and carbon footprint of the manufactured clay products used for you home and landscape, and so also the overall carbon footprint of houses at Mullum Creek.

Dry pressed solid bricks laid in softer lime rich mortars should be preferred because they can more easily, and with less damage, be retrieved and cleaned for reuse when a building is finally demolished. Similarly, paving bricks laid on a bed of stabilised sand (rather than on a reinforced concrete sub-base) will be more easily reused in the future.

When binders and stabilisers are added to clay, even construction using rammed earth or mud brick will generate a high carbon footprint. To mitigate this, alternative stabilisers such as fly ash, slag or bitumen may be used.

The following table lists the different clay products that provide better environmental outcomes, and are recommended for use throughout the development at Mullum Creek.

### **Disclaimer**

While considerable effort has been made to ensure the accuracy of the information provided in the Mullum Creek Clay Products List, neither Mullum Creek nor the author accept liability for any consequences arising from reliance on the information published. If you have doubts about acting on any of the information, please seek independent professional advice.

	Product	Manufacturer / Brand	Nearby Suppliers	Reasons for Recommendation	
<b>BRICKS &amp; PAVERS</b>	Earth (mud) bricks	<b>Barkly Bricks</b>	Barkly Bricks Cottles Bridge VIC (03 9714 8478)	<ul style="list-style-type: none"> <li>• Low embodied energy.</li> <li>• Potentially high heat storage capacity.</li> <li>• Excellent sound reduction.</li> </ul>	
		<b>The Mud Brick Circus</b> The Mud Brick Circus PO Box 446	Kyneton VIC (03 5422 1808)		
	Reused fired clay bricks			Beaver Bricks 199 Liverpool Road Kilsyth VIC (03 9728 8344)	<ul style="list-style-type: none"> <li>• Reused, therefore minimal environmental impacts attached to supply.</li> </ul>
				Melbourne Brick 443 Mountain Highway Bayswater VIC 1300 722 102	
Paddy's Bricks 240 Kensington Road West Melbourne VIC (03 9687 2338)					
Stephen's Bricks 281 Raglan Street Preston VIC (0417 104 578)					
	New fired clay brick	<b>Daniel Robertson Brick</b> Austral Bricks	Daniel Robertson Showroom 490 Swan Street Richmond VIC (03 8412 0500) manufactured at Longford TAS	<ul style="list-style-type: none"> <li>• Carbon Neutral Certification.</li> <li>• Large reduction of carbon emissions during manufacturing as kiln is fuelled by sawdust from local sawmilling operations.</li> <li>• Carbon offsets in place under the NCOS (National Carbon Offset Standard).</li> </ul>	
<b>MORTAR MIX</b>	Cement Mortar Mix Lime Mortar Mix	<b>Independent Cement</b> Australian Builders™ Mortar Mix	Available from most major retail hardware, building and garden centres.	<ul style="list-style-type: none"> <li>• Australian made.</li> </ul>	

	Product	Manufacturer / Brand	Nearby Suppliers	Reasons for Recommendation
ROOF TILES	Reused terracotta roof tiles		Coghlan Roofing 570 Canterbury Road Vermont VIC (03 9873 0963)	<ul style="list-style-type: none"> <li>Reused, therefore minimal environmental impacts attached to supply.</li> </ul>
			Sunshine Roofing Tiles Corner Ballarat Rd & Hulett St Sunshine VIC (03 9312 4377)	
RAMMED EARTH	Stabilised rammed earth construction	Earthwright	Earthwright, PO Box 199 Carnegie VIC (03 9543 3963)	<ul style="list-style-type: none"> <li>Low embodied energy.</li> <li>Potentially high heat storage capacity.</li> <li>Excellent sound reduction.</li> </ul>
		Olinee	Olinee Constructions 5/632-642 Clayton Road Clayton South VIC (03 9551 5149)	
		Earth Structures	Earth Structures PO Box 2083 Richmond South VIC (0400 987 254)	
		Rammed Earth Australia Pty Ltd	Rammed Earth Australia 11 Murray Valley Hwy Killara VIC (0406 218 846)	