

Applying Our Greenness Scale to Our Shipping Container Home

House aspect	Material spec	Where does it come from?	What is the environmental impact while using it?	What happens when it comes to the end of its life?
Primary structure - walls	Corten steel	Repurposed decommissioned steel shipping containers	None	Can be recycled or repurposed
Insulation	50mm EPS (expanded polystyrene) sandwiched between Chromadek (steel sheets with a Zink coating) for walls and ceiling	New. Manufactured in South Africa	EPS = a petro-chemical by-product. Chromadek = a high environmental impact during mining process; medium to high environmental impact during the manufacturing process; and no impact while using it.	Can be reused, recycled or repurposed
Shutters	Corten steel	Repurposed steel cut-outs from the shipping containers	None	Can be recycled or repurposed
Additional roof trusses – above the container roof	Light steel	New. Manufactured in South Africa	High environmental impact during mining process; medium to high environmental impact during the manufacturing process; and no impact while using it.	Can be reused, recycled or repurposed
Roof sheeting	ZincAL sheeting (steel with 55% Aluminium, 43.5% Zinc & 1.5% Silicon)	New. Manufactured in South Africa	High environmental impact during mining process; medium to high environmental impact during the manufacturing process;	Can be reused, recycled or repurposed

House aspect	Material spec	Where does it come from?	What is the environmental impact while using it?	What happens when it comes to the end of its life?
			and no impact while using it.	
Doors (external)	Double-glazed French doors (2.1m x 1.2m) in aluminium frame	New. Manufactured in South Africa	High environmental impact during mining process; medium to high environmental impact during the manufacturing process; and no impact while using it.	Can be reused or recycled
Doors (internal)	-	Old Oregon pine doors	Probably originally not sustainably harvested. No impact while in use.	Can be reused, recycled or repurposed
Windows	Double-glazed windows (various sizes) in aluminium frame	New. Manufactured in South Africa	High environmental impact during mining process; medium to high environmental impact during the manufacturing process; and no impact while using it.	Can be reused or recycled
Pylons on which house is positioned	Nine reinforced concrete pylons (6 = 600mm x 600mm & 3 = 800mm x 800mm)	New. Manufactured in South Africa	High environmental impact during mining process; medium to high environmental impact during the manufacturing process; and no impact while using it.	