

Metal cladding	
Materials stream:	Metals.
Product type:	Cladding.
Applications:	Most common: Cladding of buildings. Other applications: Roofing for agricultural buildings.
Description:	<p>Steel sheet cladding is either simple metal sheet, or a composite material sandwiching insulation material between sheets.</p> <p>There are two principal cladding assembly systems available; their use depends on building design:</p> <ul style="list-style-type: none"> ■ Unitized, panel or strong-back; and ■ On-site assembled or stick. <p>Both can be reused, although stick systems tend to be labour-intensive to dismantle.</p>
Materials used:	Metals, various insulation products.
Embodied CO₂ savings¹⁸:	Varies depending on materials.
Typical costs:	<p>Metal top sheets £1.50 - £4/m².³⁷</p> <p>Composite cladding panels £6 - 12/m².³⁷</p>
Cost of new:	<p>Portal frame cladding sheets £3 - £6/m².³⁷</p> <p>Composite cladding panels £18 - £21/m².³⁸</p>
Cost commentary:	Reclaimed sheet metal is predominantly used in agricultural applications, where lower quality cladding panels with attachment holes etc are a bonus. Due to the high cost of new composite cladding panels, these will offer a cost saving if reclaimed in good condition.
Practice:	Reclaimed sheet metal cladding and composite cladding is a cost saving.
Guidance on key issues	
Certification/ accreditation:	Design checks are critical as old cladding was often designed to a lower standard.
Specification:	In most cases it will be necessary to replace the fixings when re-using cladding.
Current UK volume reclaimed:	No available data.
Availability/supply constraints:	<p>Some stone, glazing and composite cladding systems are bespoke to a building – for these materials, supply would be project-specific.</p> <p>A1 steel buildings, www.a1steelbuildingsltd.co.uk, hold approximately 20 portal frame buildings with cladding in their yard (sheet metal and composite cladding panels). This cladding is sometimes sold with the building and sometimes sold separately. In addition to the cladding held in their yard, they sell cladding and buildings from standing.</p>
Potential for reclamation and reuse on site:	Reuse on site can be economic, and profitable depending on the fixings and access considerations. Where possible, refurbishment of existing cladding systems (rather than replacing them) should be considered.

37. www.portal-power.co.uk38. www.trademate.co.uk