

smarttray™ Cladding Systems

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Smart tray™ 510 standing seam custom panel

introduction

Due to the nature of the materials used we are able to accomodate most non standard cladding designs.

The design and nature of the custom-made panel profile will often determine the type of material suitable for your project. The full range of materials available are copper, zinc, aluminium and Colorcote™ Zinalume™.

As these custom panels are very unique and require a lot of design work we request that you consult with Architectural Metalformers as early as possible in the design

alternative solution

All **smarttray™** standing seam tray products are considered alternative solutions under the current building code. Please consult Architectural Metalformers who will assist you with the relevant required technical information to successfully specify the product.

product overview

material	Copper, zinc, aluminium and Colorcote™ Zinalume™		
minimum pitch	N/A for wall cladding I		
ength	Profile dependent		
width	Profile dependent		
thickness	Copper	0.5mm, 0.55mm, 0.6mm, 0.7mm	
	Zinc	0.7mm, 1mm, 1.5mm	
	Aluminium ARX	0.7mm, 0.9mm	
	Colorcote™ Zinalume™	ZRX	0.55mm
		ZR8	0.55mm
upstand height	Profile and design dependent		
substrate	15mm H3 plywood		



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applications

We produce **smarttray™ 510** custom panel cladding for new homes, alterations and commercial buildings.

We can custom-make the following:

- > various wall cladding requirements
- > Curved walls
- > Convex and concave walls
- > Internal ceilings/soffits

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design considerations

When specifying a custom-made profile, consideration should be given to the following:

- > Material type
- > Wall design and orientation
- > Position of doors and windows
- > Wind loading
- > Environmental factors, urban, rural or coastal

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availability

Please consult with Architectural Metalformers as early as possible in the design process regarding stock availability for your roofing requirements.

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flashing details

Robust flashing design, manufacture and installation are the key to a total waterproof solution. All these crucial steps are controlled and overseen in-house.

We use flashing methodologies that are well proven in Europe and the USA for hundreds of years and our flashings comply and often surpass E2 regulations.

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plywood substrate

All **smarttray™ 510** custom panel cladding requires a solid plywood substrate. We recommend a minimum of 15mm H3 plywood installed.

please refer to the installation category in the main menu for a thorough plywood installation specification.

For all torch on compatability requirements please refer to www.ecoply.co.nz



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underlay and fixings

We install an approved roofing underlay between the plywood substrate and our **smarttray™ 510** custom panel sheets. We fit all trays with concealed sliding clips that are fixed using 316 stainless steel collated nails.

The clips are fixed at 400-500mm centres and have a dual function: To allow the mechanical resistance of the roof and free expansion of the metal itself.

For copper and zinc we use marine grade stainless steel clips

For aluminium and Colorcote™ we use Colorcote™ Zincalume™ clips.



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