

Cu

Zn

Al

Fe

smarttray™ Cladding Systems

Smart tray™ 305 standing seam snap-lock

introduction

The **smart tray™** 305 snap-lock profile is suitable for most wall cladding projects.

With its unique profile, it is particularly suited to accommodate curved designs with a maximum formed width of 305mm. (concave and convex shapes)

alternative solution

All **smart tray™** 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

smart tray™ 305 snap-lock cladding panels are formed to the exact measurements required and installed over a solid plywood base with approved roofing underlay.

material	Copper, zinc, aluminium and Colorcote™ Zinalume™	
minimum pitch	N/A for cladding	
length	Roll formed continuous lengths	
width	305mm effective cover	
thickness	Copper	0.5mm, 0.55mm, 0.6mm, 0.7mm
	Zinc	0.7mm, 1.0mm
	Aluminium ARX	0.7mm, 0.9mm
	Colorcote™ Zinalume™	ZRX 0.55mm
		ZR8 0.55mm
upstand height	23.5mm	



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> application

smart tray™ 305 snap-lock profile is suitable for most commercial and residential cladding projects.

Can be applied to:

- > Traditional vertical and horizontal wall cladding
- > Curved walls - convex and concave

> design considerations

When you are specifying **smart tray™** 305 snap-lock cladding, consideration should be given to the following:

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

> availability

Copper coil for **smart tray™** 305 snap-lock cladding is usually a stock item.

Zinc, aluminium, and Colorcote™ Zinalume™ are subject to supplier lead times.

Please consult with Architectural Metalformers as early as possible in the design process regarding your cladding requirements.

> 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.

> plywood substrate

All **smart tray™** 305 snap-lock cladding requires a solid plywood substrate. We recommend a minimum of 15mm H3 treated plywood be installed.

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

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

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underlay and fixings

We install underlay between the plywood substrate and our **smart tray™** 305 snap-lock panels. The paper is fixed using 12mm stainless steel staples

smart tray™ 305 snap-lock tray panels are snap-locked together with the ribs interlocking without the use of clips or a locked seam. The panels are fixed through the expansion slots with stainless steel screws at 500mm centres which are concealed by the next panel.

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thermal expansion and contraction

To allow for thermal movement, our **smart tray™** 305 snap-lock cladding panels are fixed through an expansion slot.

This allows for expansion and contraction without the associated “oil canning” as seen in some tray roofs.

The following is the expansion rate of various metals over a 70°C temperature change for a 10m length of product.

Copper	11.9mm
Zinc	15.4mm
Aluminium	14.8mm
Zincalume™	7.7mm



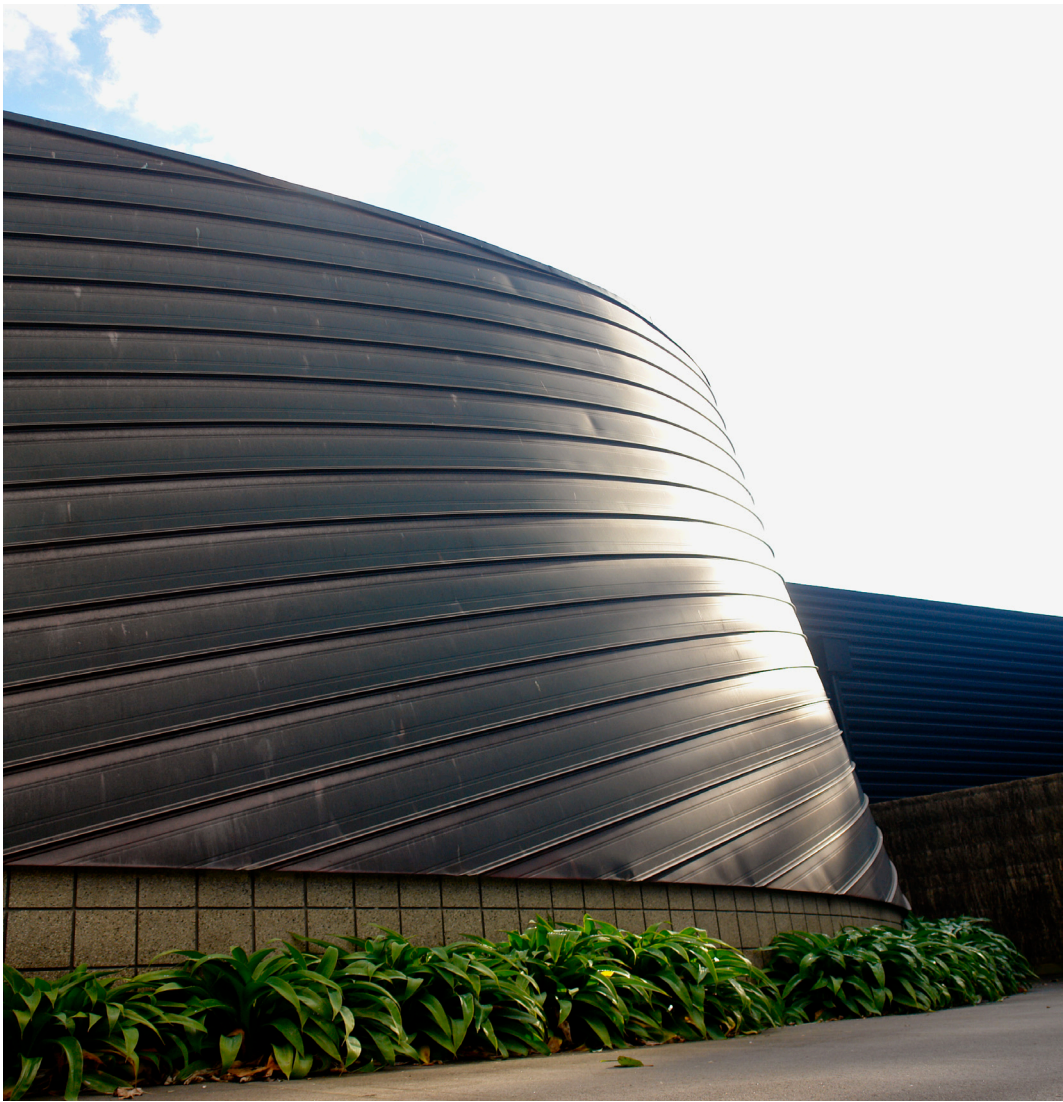
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smart tray™ snap-lock cladding - horizontal cladding with matching smartrain™ rainwater goods - copper

- Cu
- Zn
- Al
- Fe



smart tray™ snap-lock cladding - wrapped diagonal curved cladding in copper