

eva-last®

INSPIRED BY NATURE, DESIGNED FOR LIFE.

Infinity® **IS**

INFINITY® I-SERIES™ INSTALLATION GUIDE



www.eva-last.co.th



Thank you for choosing Eva-Last® decking. These guidelines are designed to assist you with Infinity® I-Series™ installation and advise you on the unique installation requirements for this board.

Please note the limitations of this guide:

- This guide is intended only for Infinity® I-Series™ single level square decks.
- The person using these guidelines should already have a basic understanding of deck building practices.
- Decks must be built in accordance with all relevant bylaws and building codes. Please bear in mind that decks of varying shapes may require different calculations and techniques.

For the full installation guide, or for installation queries, please visit www.eva-last.co.th before beginning installation.

THE ALL NEW I-SERIES™ BOARD

The Infinity® I-Series™ board offers installation, performance, cost and low-maintenance advantages over other decking products. However, the specialised I-beam shape of the profiles requires certain installation considerations. Please read this guide in its entirety before beginning installation.



Benefits of I-Series™

Performance



The I-Series™ profile has the highest possible flexural performance and stiffness on the market, even superior to a solid profile, yet is made with less material than other composites to increase its versatility, reduce its environmental impact even further, and provide long-lasting durability.

Cost



The ingenious design of I-Series™ allows for a stronger, lighter weight board made with less material, reducing the costs of its raw materials, manufacture, transportation, installation, and amount of fixing and complementary components necessary. Its long-term reliability also negates the need for premature replacement costs.

Strength and stiffness



I-Series™ boards have cutting-edge structural engineering, combined with the time-tested I-beam shape to provide greater strength, stiffness and further spanning capacities (up to 600 mm between joists) than other composites.

Quicker installation



The I-Series™ board has one of the greatest joist span capacities in the composite industry, and a lighter weight. This translates into a simpler substructure that is quicker to construct, and decking boards which are easier to carry and position than many other composite or timber decking options.

Less substructure material



The impressive joist span and light weight of the I-Series™ board saves money as well as time. A greater joist span means I-Series™ boards require less substructure material than many other decking options, saving as much as 10% of the material costs of traditional decking projects. A quicker installation time saves on overall project labour costs.

Fewer fixings and fasteners



The industry-leading joist span of the I-Series™ boards saves money and time by requiring fewer fasteners, reducing fixing costs by up to 30%.

Reduced transportation costs



The I-Series™ board is a lighter weight decking profile than many other composite or timber options on the market. This helps reduce the cost and environmental burden of transportation, and allows for more square meters per pack, due to OHS mass limits. Furthermore, by reducing the amount of substructure required for installation, choosing I-Series™ boards lessens the total amount of material requiring any transportation at all.

Installation benefits

Improved heat dissipation



The shape of I-Series™ profiles allows them to dissipate heat and evacuate hot air more efficiently than other decking profile shapes, making the surface of the decking cooler to the touch.

Rips straighter



I-Series™ boards are engineered to bow and warp less than traditional timber profiles, particularly when ripped – or cut lengthwise. This is especially helpful for most installations which require partial boards to fit the exact installation size and specifications.

Prevents water and moisture issues



The open shape of the bottom of I-Series™ profiles prevents water from becoming trapped, which avoids the water and moisture-related issues that plague other composite boards.

Easier to move



The lower mass per board makes I-Series™ profiles lighter and easier to transport and work with onsite than other decking products.



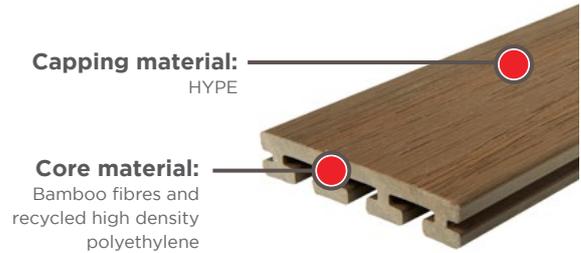
Infinity[®] IS



I-Series™

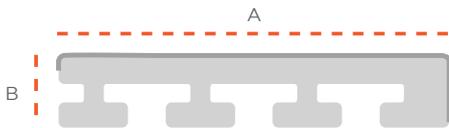
The dynamic shape and engineering properties of I-Series decking is available in Eva-Last's premium Infinity[®] capped bamboo composite.

Infinity[®] I-Series™ offers the strength, stiffness, and light weight of I-Series™ coupled with the durability of Infinity[®]. The unique protective Infinity[®] capping material protects a sturdy, eco-friendly core of bamboo fibres and recycled high density polyethylene. Infinity[®] I-Series™ is available in a wide range of natural finishes, colours and styles.



Available profiles:

Single sided grooved board

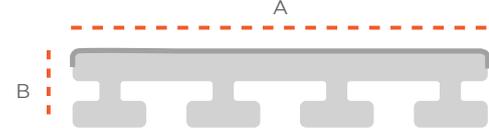


Dimensions	A) 135.0 mm B) 25.5 mm
Length	5 800 mm
Weight	2.88 kg / m ²
Joist spacing	450 mm on centres - Residential



9 HULK Clips and 18 CDS screws / m²
(uses HULK S9 Clip)

Double sided grooved board



Dimensions	A) 135.0 mm B) 25.5 mm
Length	5 800 mm
Weight	2.88 kg / m ²
Joist spacing	450 mm on centres - Residential



18 HULK Clips and screws / m²
(uses HULK S9 Clip)

The single sided groove board optimises the uses of the board allowing for a clean and neat finish to your deck.

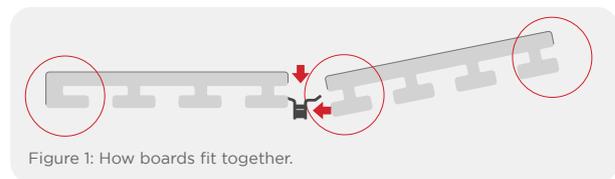
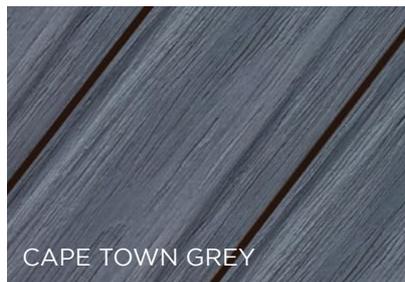


Figure 1: How boards fit together.

New colours

Available in Carved grain surface finish.



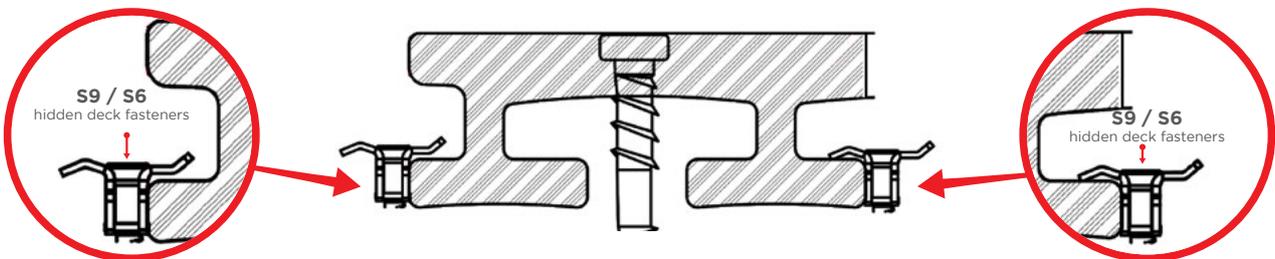
I-SERIES™ INSTALLATION AND PREPARATION

Infinity® I-Series™ profiles are designed to make installation efficient and straightforward. Please adhere to all guidelines to ensure the long-lasting integrity of your deck.

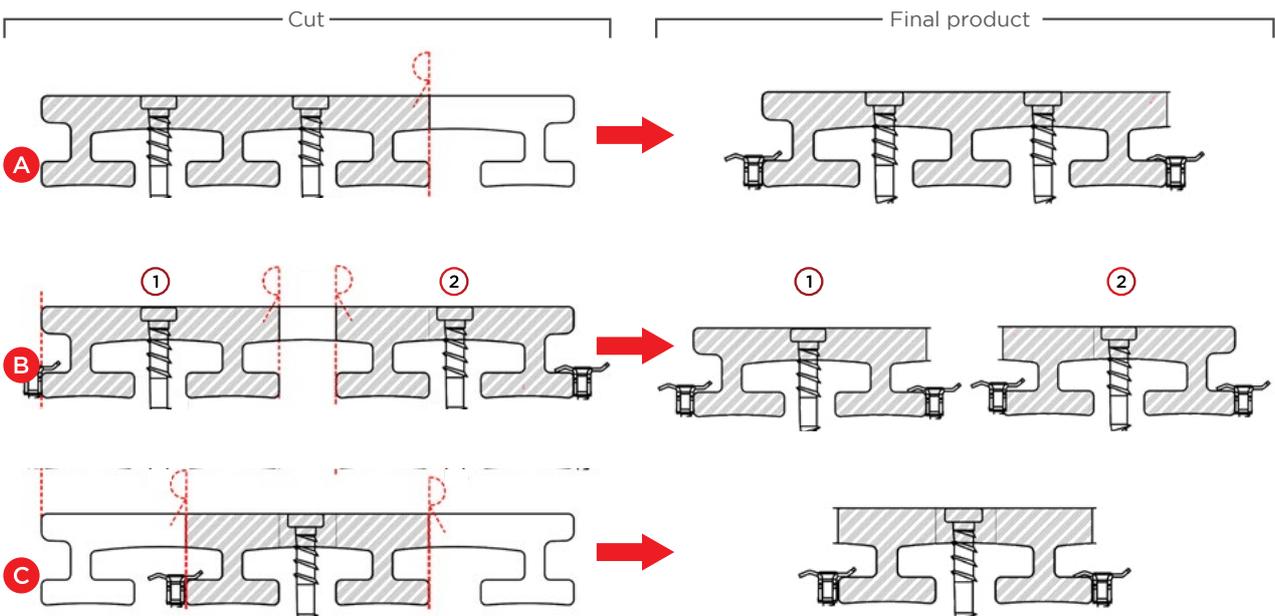
Board ripping guidelines:

Ideally your deck installation area will perfectly accommodate full sized Infinity® I-Series™ boards and their expansion gaps. However, oftentimes it is necessary to rip, or cut lengthwise, the last deck board to fit the size of the installation area. If this is the case, avoid cutting any Infinity® I-Series™ board too less than 73 mm wide, or to less than half of its original width. It is better to rip both the first and last Infinity® I-Series™ boards to fit your installation space than to rip either board too thin. Plan ahead for this.

If it is absolutely necessary to rip an Infinity® I-Series™ board to less than half of its original width, the integrity of the material may be compromised. Consider substituting the selected I-Series™ board with a matching colour Eva-Last® square edge board. At minimum, the board must be wide enough to allow for top-fixing 30 mm from each edge. Please note that the board must be fixed on both sides to ensure an adequately stable fixing to the substructure; a single, longitudinal line of fasteners is susceptible to pivoting and may become a hazard.



Infinity® I-Series™ boards can be ripped. However, these rips or lengthwise cuts should avoid the web or “feet” of the board. The diagrams below illustrate various ways a board can be ripped and securely fastened so as to preserve the integrity of your deck.



Wherever possible, if an Infinity® I-Series™ board has been ripped, face the ripped edge inwards towards the other decking boards and allow the non-ripped edge to act as the end of the deck.

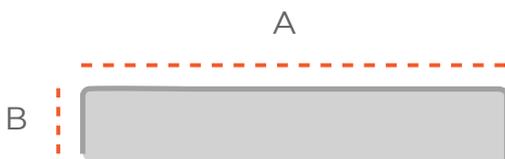
TOP FIXING

Top fixing may be used for fastening Infinity® I-Series™ boards, particularly square edge boards, when used in conjunction with the HULK Fasteners™ system (S9 clip) in most situations.

Available profiles:

Square edge profile

Infinity®



Dimensions

A) 140.0 mm

B) 23.0 mm

Length

5 800 mm

Weight

3.80 kg / m

Joist spacing

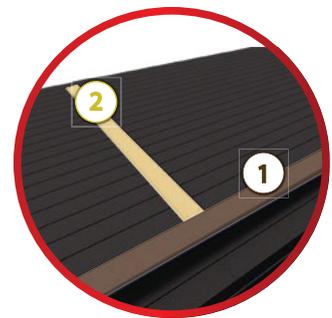
450 mm on centres - Residential



Use in combination with HULK Fasteners™ Top fixing screws.

Most decking trim and finishes will require top fixing. Trims and finishes may be used as:

1. Perimeter planks on the outside edges of a deck, including the starting and finishing profile on any section of a deck. This creates an attractive full picture frame look for the deck.
2. Breaker-boards running perpendicular to other decking planks, which can be used at butt joints to assist with controlling the expansion and contraction of I-Series™ decking, reduce wastage and create a handsome aesthetic.



Follow all relevant top fixing standards for optimal installation. Top-fixed boards should be fastened at exactly 30 mm from any edge of the board.

Cover angles

Eva-Last® cover angles create a clean finish for your deck and provide safety from sharp edges. These should be firmly secured onto your Infinity® I-Series™ decking. Fix, or screw, them every 300 mm. Ensure these screws are 30 mm from the outer edge of the I-Series™ decking board to which the cover angle is attached.

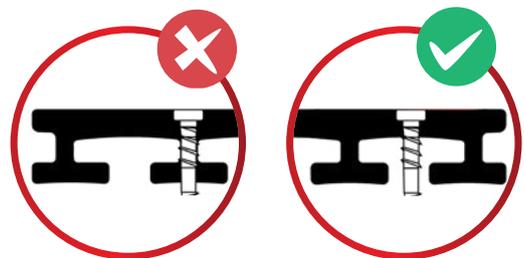


Figure 2: Avoid driving the top fixing screws through the web or "feet" of I-Series™ decking boards in order to prevent cracking.

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