

# I-Series

Benefits and Installation points

Infinity™ / Eva-tech™

## MOST EFFICIENT PROFILE IN PERFORMANCE AND COST



### The all new I-Series™ board

The *I-Series* profile are made possible by the advancements in extrusion technology developed by Eva-Last®. This allows for the extrusion of more complex profile optimising material usage and structural performance at the same time.

### This profile comes in two technologies:

#### Infinity™

The *Infinity™ I-Series* deck board incorporates the same low maintenance and highly durable *Infinity™* material technology with the next generation in extrusion technology. This advancement allowed for the cellulose-polymer composite to be wrapped in a protective cap, further improving the product's longevity. The engineered polymer coat is loaded with a variety of additives that result in an extremely robust outer layer. This layer protects the products from weathering and biodegradation, even within particularly harsh conditions.



#### Specifications

Dimensions	135.0 x 25.5 mm (5.8 m lengths)
Joist spacing	450 mm centre to centre



Tiger Cove



Caribbean Coral



Spanish Saffron



Alpine Mist

#### Eva-tech™

*Eva-tech™* is our first generation material technology. The engineered cellulose-polymer composite consists primarily of bamboo and high density polyethylene. Additives are incorporated, enhancing the materials durability and colour-fastness. The resultant products are weather resistant and available in several natural colours.



#### Specifications

##### Option A

Dimensions	146 x 24 mm (5.8 m lengths)
Joist spacing	450 mm centre to centre

##### Option B

Dimensions	137 x 23.40 mm (5.8 m lengths)
Joist spacing	350 mm centre to centre



Aruna



Rusteak



Xavia



Savanna

# I-Series benefits

## Performance

The *I-Series* profile has the highest possible flexural performance and stiffness, even superior to a solid profile. The *I-Series* of profiles, developed by Eva-Last®, is patent protected and the advantages it offers cannot be replicated.

## Cost benefits

Even though the *I-Series* profiles have the best performance in their class they use less material and are the most cost efficient.



### Stiffness

The stiffness comes from the shape of the design, leaning on profile development in structural engineering. This excessive performance in profile stiffness allows to increased spans. For a few cents additional cost over a hollow profile, an *I-Series* dock board can span 600+ mm



### Reduced cost of installation in time

Greater spans reduce fixing point locations and framing material which saves time on site. The lighter profile mass helps the contractor move the product on site. Contractors using *I-Series* profiles will be faster and more profitable than any contractors using any other products.



### Reduced cost of substructure

Greater spans reduce the materials and fixings required for the substructure. This instantly saves as much as 10% of the material cost of a project. In the hands of the final consumer, the total project cost will be more efficient on *I-Series* profiles than other products.



### Reduced cost of fixtures and fittings

Savings on clips and screws reduce the cost of fixing the deck by 30% and saves time for the contractor.



### Lighter to transport

After shipping, distribution of *I-Series* profiles to warehouses, dealers and customers is more cost efficient than any other profile. This gives the distributor another margin advantage over other products. Boxed retail or online distribution gets many more square meters per pack, due to OHS mass limits.

## Usage benefits and tips

The *I-Series* of profiles has some unusual characteristics which should be taken into account. When top-fixing and ripping down the length, *I-Series* profiles are superior to other decking profiles when these guidelines are followed. In all other ways, they are used in exactly the same manner as regular decking boards.



### Improved heat dissipation

The *I-Series* family of profiles dissipates heat and evacuates hot air more efficiently than other profile shapes, so the surface of the decking is cooler to the touch.



### Rips straighter

The balanced nature of an *I-Series* profile extrusion means that the profile bows less along the length when it is cut down the length or at a narrow angle.



### Drains - cannot trap water

The *I-Series* family of profiles cannot trap water in any way, trapped water leads to degraded material properties over time, usually resulting in cracks on the deck surface.



### Lighter to move on site

The lower mass per board makes it easier for carpenters to work on site for longer times.

## Installation guidelines

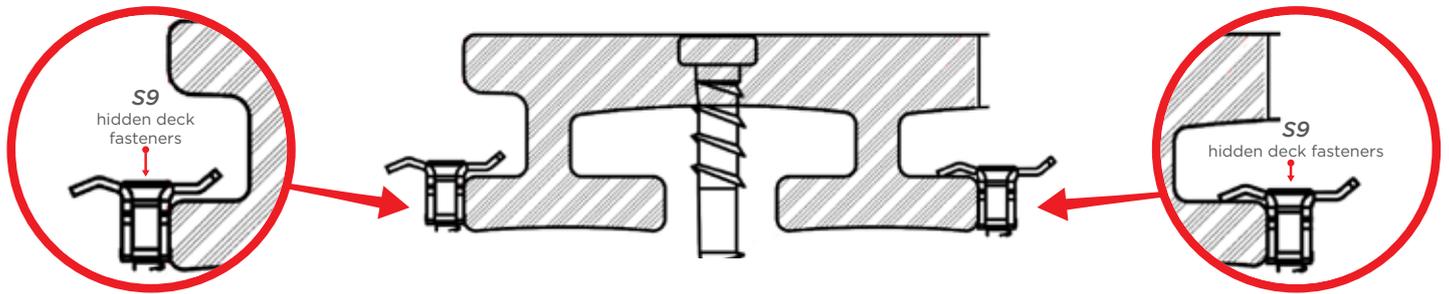
### Ripping

It is convenient, and will be most aesthetically pleasing, to design your deck so that it is a perfect multiple of the *I-Series* board profile dimensions. Remember to take the proper expansion gaps\* into account when planning your deck. However, this is not always possible and, as a result, the end board may have to be ripped (cut lengthwise) to fit.

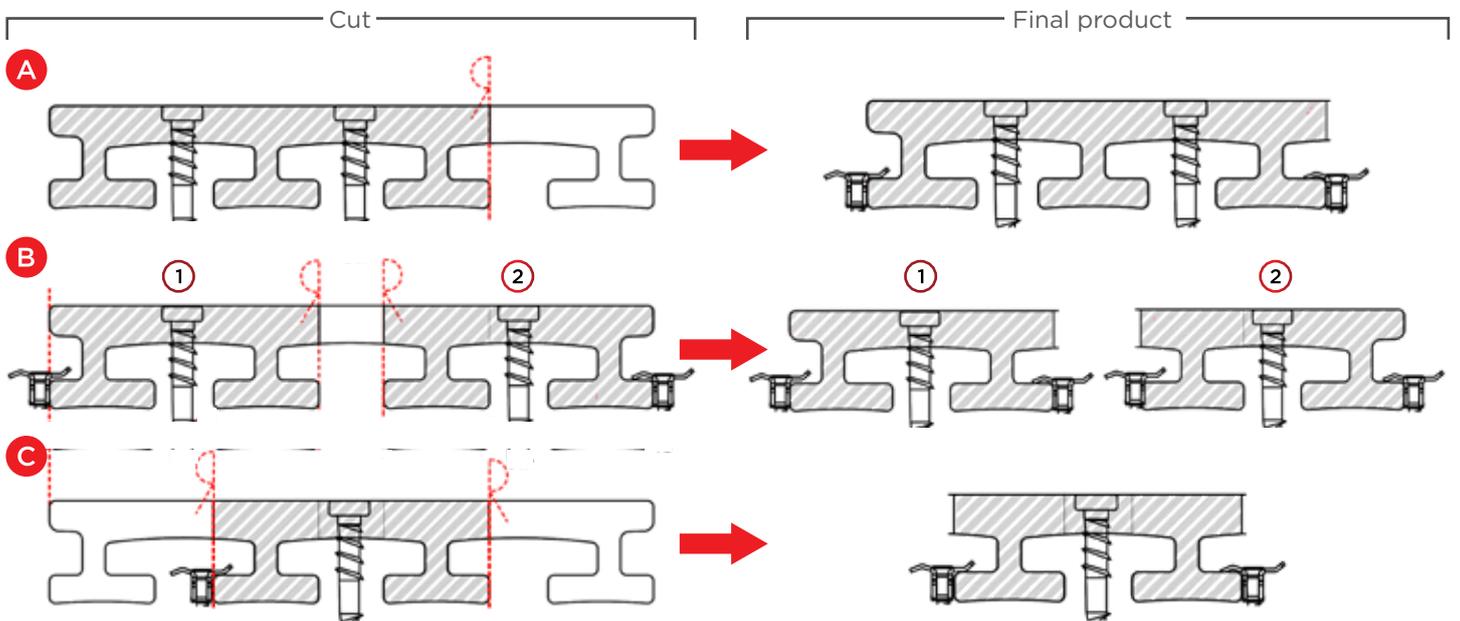
In these scenarios, it is important to limit how thin the board is ripped. In general, it is advisable to avoid cutting a board to less than half its original width. For the *I-Series* profile we do not recommend ripping the board smaller than 73 mm. If the remaining space available is less than this, good practice is to rip both the first and last boards thinner to provide more space for the last board.

Ripping a board requires adequate planning. If the site does not allow for this type of flexibility and the final board has to be ripped thinner, the thinnest a *I-Series* board can be ripped is 73 mm, allowing for top-fixing 30 mm from each edge. If the boards need to be cut thinner than 73 mm or at an angle through the web of the profile's feet, we recommend substituting the selected *I-Series* board with a matching colour Square Edge board.

The board must still be fixed either side of the profile to ensure an adequately stable fixing to the substructure. A single, longitudinal line of fasteners is susceptible to pivoting and may become a hazard.



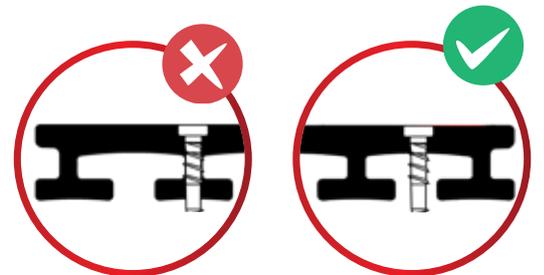
The *I-Series* profile can be ripped but is limited to specific widths that allow the cuts to line up with the outer edge of the second or third foot to mimic the ends of the profile.



If the longitudinal profile of the ripped board is to be visible, it is good practice to install the board so that the cut face is turned inwards and the opposite face is exposed. However, in scenarios such as this, one should be able to extend the project area so that the final board can be a full board.

## Top fixing

We recommend using *HULK FASTENERS™* hidden deck clips to secure the boards into place on either side of the profile to ensure an adequately stable fixing to the substructure. Avoid driving the top fixing screws through the web of the profile shape, this would cause cracking.



## Cover angles

Accessories include a cover angle with beveled edges and a powder coating that matches the selected *I-Series* deck board colour. The lack of sharp edges and slip resistant design makes these cover angles safer for children and pets. When installing cover angle trim, fix the cover angle to the composite profiles. Cover angles running at angles parallel to the board should be fixed every 300 mm and at 30 mm from the outer edge of the *I-Series* profile to avoid driving the screws into the solid part of the profile.