

Decking

Dura Deck®

Composite Timber Decking

Dura Deck® Flip 150, featuring Weather Cedar in a woodgrain finish.

Low maintenance composite timber decking for domestic and commercial applications.

Unlocking the Power of Composites™
» for Outdoor Decking Areas

dura™
composites

Contents

Dura Deck® Ranges	2-4
Dura Deck® Benefits	5-8
Load Performance	6
Anti-Slip Resistance	7
Fire Resistance	8
UV Fade	8
Dura Deck® Eco 146 / 295	9-14
Dura Deck® Flip 150	15-18
Case Study: Dura Deck Flip	19-20
Universal Fixings	21-22
Essential Guide	23-24
Aluminium Pedestals & Bearers	25-30

About Us

Dura Composites is a leading supplier of composite products with over 25 years’ experience in delivering durable, performance-improving and cost-effective composite solutions to a wide range of industries.

We help companies of all sizes unlock the power of composites, and our client base includes businesses in the Industrial, Construction, Rail, Transport, Landscaping, Marine and Leisure sectors.

In 2017 and in 2020, Dura Composites was awarded the Queen’s Award for Enterprise in recognition of our achievements at the forefront of composite material technology.

Our success is driven by our commitment to innovation and by empowering our staff to inspire, educate and problem-solve for customers.

Dura Composites’ products are also available through a well-established global distribution network. Your local distributor can be found on our website.

Dura Deck® is a registered trademark of Dura Composites Limited in the UK.

Dura Deck® Ranges

Dura Deck® is available in **two great** composite timber variants which suit a vast range of outdoor decking project requirements and budgets.

Whichever of the **2 product ranges** you choose, Dura Deck® outdoor decking boards offer effortless simplicity.

There is one single recommended span for **Dura Deck® Eco** (146) and **Dura Deck® ‘Flip’ Resist** in accordance with BS 6399-1: 1996 - no matter what the application and for the avoidance of doubt.

To view the complete range on our website, visit www.duracomposites.com/decking



Features

- Natural Wood Look and Feel
- Concealed Fixings
- Doesn’t Rot, Splinter or Warp
- UV Colour Stable
- Recycled Content
- Anti Slip Surface
- Water Resistant

Benefits

- • Ideal Wood Replacement
- • Barefoot Friendly
- • Minimum 10 Year Warranty
- • Looks Fresh for Years
- • Environmentally Friendly
- • Prevents Slips, Trips and Falls
- • Rain and Swim Area Friendly

Please Note: All colour swatches and images shown in this document are intended as a representation only and should not be considered as an exact colour match. Although we are unable to offer tile samples prior to purchase, we do offer similar colours in our Dura Deck Flip Resist range. Where possible, we would recommend ordering a decking colour sample so you can assess colour suitability before placing your order.

Dura Composites’ manufacturing process results in a high level of colour consistency although some variation in colour may be apparent across products from different production batches.

Dura Deck® Flip 150, in Weathered Cedar and Pebble Grey

Dura Deck® Eco



Our **Dura Deck® Eco 146** has a traditional appearance that closely resembles natural wood. It features grooves on one side and woodgrain finish on the reverse. Available in Teak, Stone and Charcoal colours, it contains up to 87% recycled content, and comes with a reassuring 10-year warranty. Its composite timber formulation never needs painting and has one of the lowest water absorption rates in the industry, which minimises the risk of over-expansion.

It is also available in a 295mm version which is twice the width of the standard board. **Dura Deck® Eco 295** allows for wider spans of up to 550mm for both residential and commercial applications and comes in the same colours as the 146mm board.



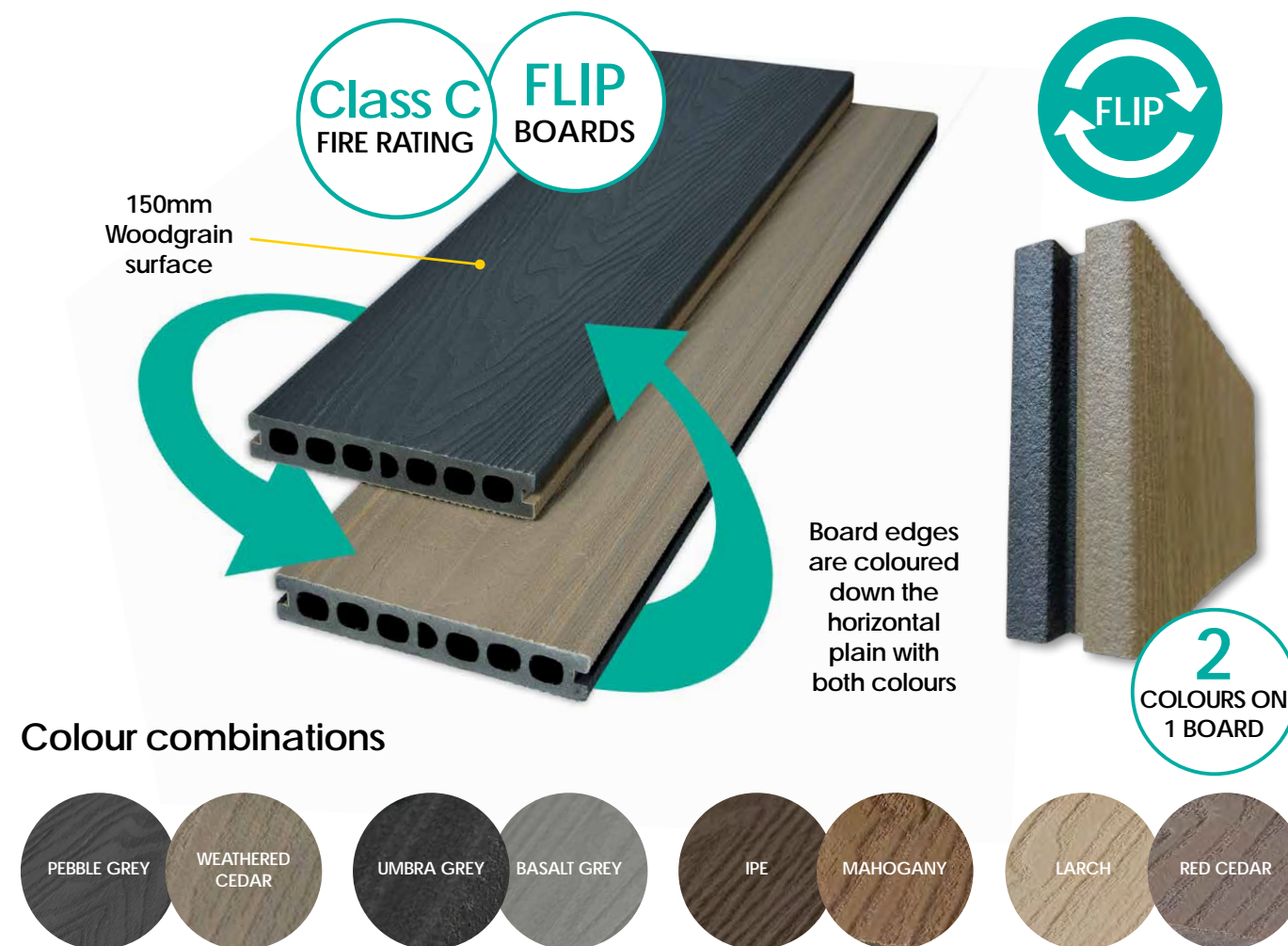
Dura Deck® 'Flip'



Our **Dura Deck® 'Flip' Resist** board takes the two most popular colours from our Resist range and combines them into one single decking board profile.

With four different colour combinations (one colour on one side and another on the other), this innovative product allows the customer to create attractive deck designs featuring both complementary colours, or to flip their boards at a later date for a whole new look.

Available in lengths of 3.66m, **Dura Deck® 'Flip' Resist** is easy to install and has a fantastic 15 year warranty. The innovative subsurface fixing system means no nails or screws need to go through the deck itself, creating a smart, uniform and barefoot friendly deck.



Dura Deck® Benefits

Dura Deck® Flip
Resist 150, in Pebble Grey

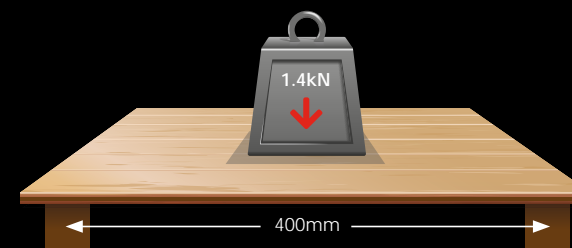


Load Performance

Using state-of-the-art product design, proprietary product formulas and precise manufacturing techniques, Dura has been able to achieve an additional 60% extra strength versus similar designs from competitors. This added strength helps prevent long term failure caused by permanent deflection (otherwise known as 'sag'). Our unique design enables the same span to be used whether you plan to install Dura Deck® residentially or commercially.

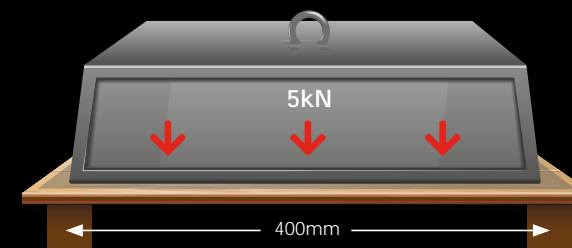
Load Performance Explained

POINT LOAD



Exceeds 1.4kN load at 0.5% deflection
(2mm @ 400mm span)

UDL (UNIFORMLY DISTRIBUTED LOAD)



Exceeds 5kN load at 0.5% deflection
(2mm @ 400mm span)

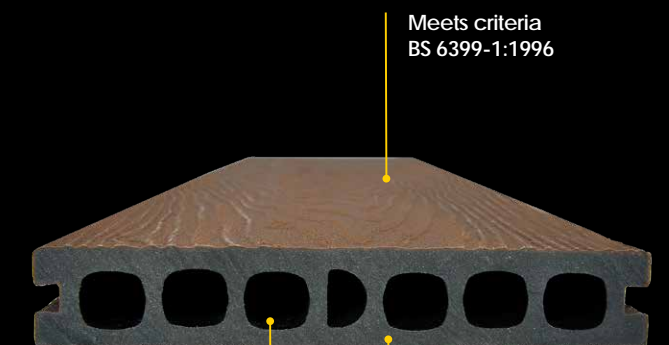
LONG TERM STRENGTH



Resists long term deflection (under self weight)

Our Unique Vortex Void

We take our warranty seriously and as such, our deck boards have been designed with a unique 'Vortex Void' structure to optimise their strength over the warranty period in all conditions, and for all applications.



Meets criteria
BS 6399-1:1996

Dura's unique vortex void for maximum long term strength that prevents deformation, deflection and sag

Unique formula with extremely low water absorption improves long term performance in all weather conditions



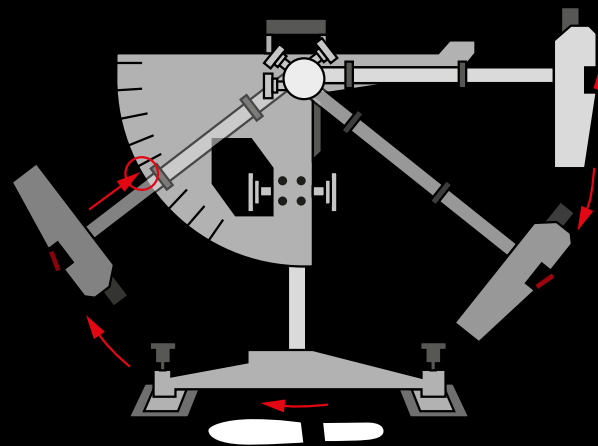
Anti-Slip Resistance

4S Slider Explained

The 4S rubber slider test imitates the heel of a shoe or foot to determine the level of slip resistance. The 4S slider test method is specially designed to replicate everyday footwear across a surface. The four S's stands for:

4S = **STANDARD** **SHOE** **SOLE** **SIMULATOR**

Some test methods are more valuable and trustworthy indicators of slip resistance than others. Health & Safety Executive guidance has determined the most reliable test method is the 4S Pendulum Test which is regarded as the only floor test equipment able to repeatedly provide consistent results and which can be used in a court of law in the event of a slip injury claim. Unlike some other brands, Dura Deck® Eco and Flip Resist have been tested using this 4S Slider Pendulum Testing method and both have achieved a low slip potential in wet conditions. Some competitors fail to meet the official low slip potential threshold score of 36, and therefore choose to present anti-slip testing results achieved from a different Pendulum Test method traditionally used for road surfaces known as the 5S Slider which uses a softer and more malleable slider designed to replicate the tyre of a car.



Eco 146 Anti-Slip Resistances

Slip Resistance Values - BS 7976*		Type 146	Type 146	Type 295	Type 295
Direction	Condition	Grooves	Woodgrain	Large Grooves	Woodgrain
Longitudinal	Dry	39	44	39	39
Transverse	Dry	63	51	74	52
Diagonal	Dry	52	46	51	53
Longitudinal	Wet	32	32	32	28
Transverse	Wet	45	44	38	39
Diagonal	Wet	37	38	39	36

*(4S Rubber Slider)
Pendulum Test Values (PTVs)
● Low Slip Potential (36+ PTV)
● Moderate Slip Potential (25-35 PTV)
● High Slip Potential (0-24 PTV)

Flip Resist 150 Anti-Slip Resistances

Slip Resistance Values - BS 7976*		Type 150
Direction	Condition	Woodgrain
Longitudinal	Dry	40
Transverse	Dry	46
Diagonal	Dry	42
Longitudinal	Wet	38
Transverse	Wet	36
Diagonal	Wet	37



Fire Resistance

BS EN 13501 is the European standard which provides the reaction to fire classification procedure for all construction products, including products incorporated within building elements. Dura Composites offers a range of fire-rated product solutions, from our Class A2 Aluminium decking for high-rise balconies, to our Class C Flip Resist and Eco Decking for domestic gardens.

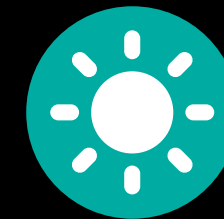
Eco 146

Designed and tested to pass **BS EN 13501 Class Cfl-s1** for peace of mind. This range exceeds the performance of almost all of its direct competitors.

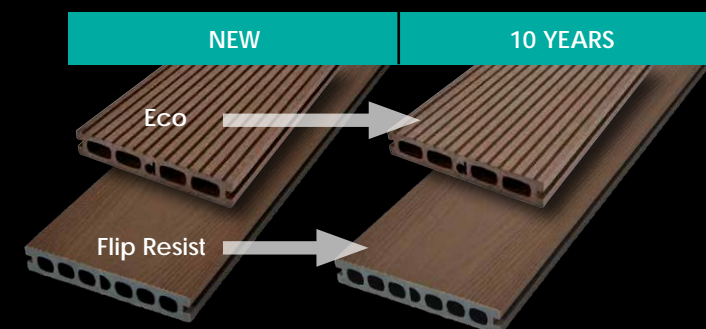
Flip Resist 150

Dura Deck® Flip Resist 150 is available as **BS EN 13501**

Class Cfl-s1 as standard. If your project is within a commercial setting and requires a Class B fire rating, this is available as special order, but is subject to extended lead times.



UV Fade



Eco 146

Latest technology deployed to ensure the colour fade over time is minor, providing a deck that always looks like new.

Flip Resist 150

Protected by the outer armour, the **Flip Resist** range is even more colour stable than **Eco** and other co-extruded WPC decking boards on the market.

Eco-Friendly & Economical Dura Deck® Eco

Dura Deck® Eco 146

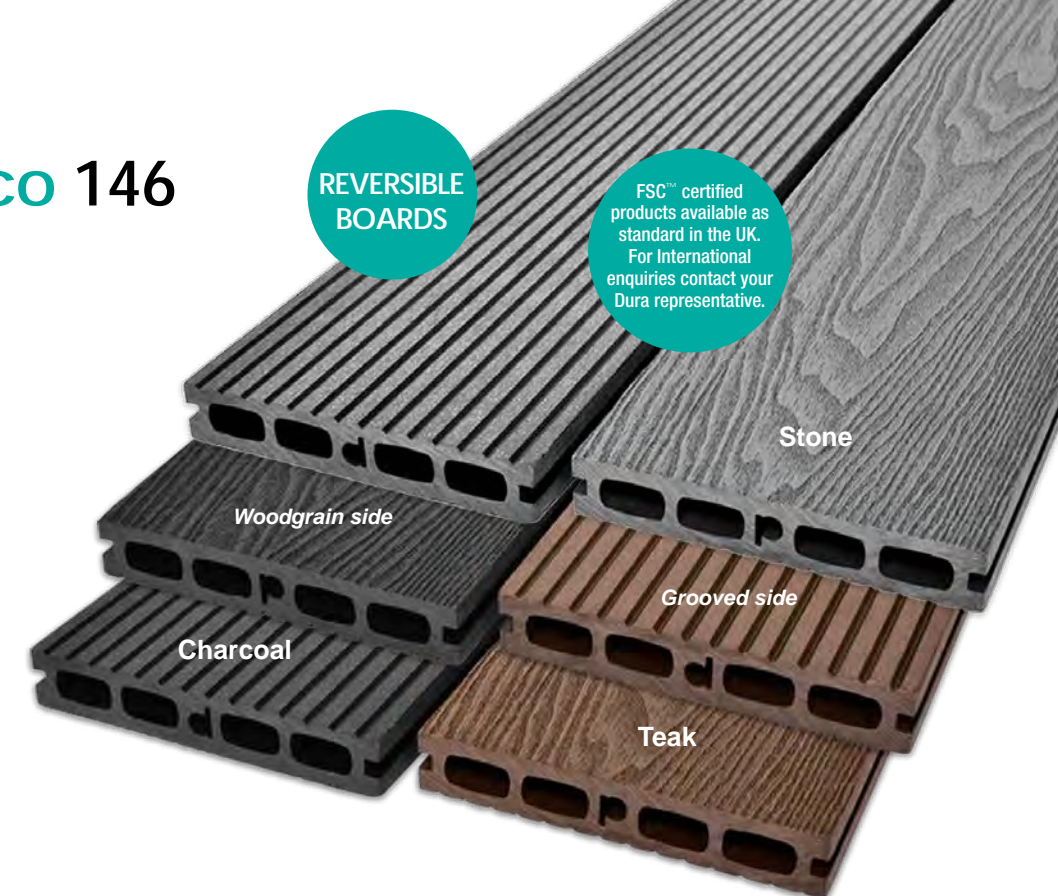
Dura Deck® Eco 146 has been design engineered to reach the highest standard for wood plastic composite decking in the world and is produced to be both ecological and economical. Available in Teak, Charcoal and Stone this board looks and feels just like natural wood and features grooves on one side and woodgrain on the reverse to suit all tastes. Dura Composites' unique composite timber formula produces a long lasting deck with a 10 year warranty that is 87% recycled and FSC™ 100%. Its also easy to install and never needs painting. Ever! Importantly, this innovative formula and manufacturing process results in some of the lowest water absorption rates in the industry thus minimising the risk of over-expansion.

The innovative subsurface fixing system means no nails or screws need to go through the deck itself, creating a smart, uniform and barefoot friendly deck.

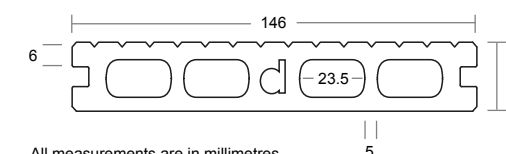
Dura Deck® Eco 146 is reversible and features attractive grooves on one side and a new woodgrain embossing on the reverse.

REVERSIBLE
BOARDS

FSC™ certified
products available as
standard in the UK.
For International
enquiries contact your
Dura representative.



Dimensions



Spans 400mm centre to centre

87%
RECYCLED

Solid boards
available by
special order



Dura Deck® Eco 146 in Stone Woodgrain



Dura Deck® Eco 146 in Stone Woodgrain
Image courtesy of Bay View Downings

Dura Deck® Eco 146 in Charcoal

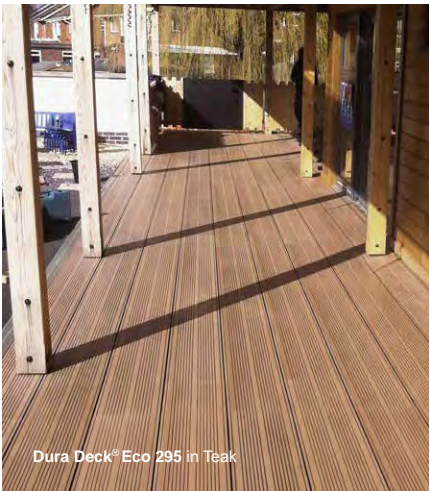
For Universal Fixings please see page 21

 www.duracomposites.com/decking/

Dura Deck® Eco 295

Dura Deck® Eco 295 is designed to have the appearance of a narrow deck board but is twice the width to provide extra strength and allow for a wider span up to 550mm for both residential and commercial applications.

It features the same woodgrain surface design as the Eco 146 allowing both models to be used within the same projects for maximum flexibility. The double width board can allow installs to be completed in half the time, saving labour and cost.



Dura Deck® Eco 295 in Teak



Dura Deck® Eco 295 in Charcoal makes an attractive residential decking area

REVERSIBLE
BOARDS

FSC™ certified
products available as
standard in the UK.
For International
enquiries contact your
Dura representative.

Charcoal

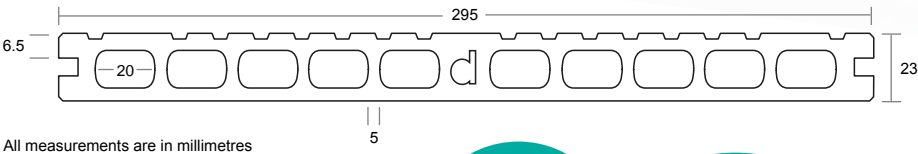
Stone

Woodgrain side

Teak

Grooved side

Dimensions



All measurements are in millimetres

3
COLOURS
AVAILABLE

Solid boards
available by
special order

For Universal Fixings please see page 21



Dura Deck® Eco 295 in Teak

Why Choose Dura Deck® Eco?

Product Comparison Table

	1.4kN at 400mm Span 0.5% Deflection, against BS 6399-1: 1996	Fire Resistance Class C	Water Absorption (less than 0.5%)	Minimal UV Colour Fade (Min. Grey Scale 4)	100% FSC™ Available	Woodgrain Surface
Dura Deck® Eco	✓	✓	✓	✓	✓	✓
Other WPC Decking Manufacturers	✗	✗	✗	✗	✓	✓
Soft Wood Decking	✗	✗	N/A	✗	✓	✓
Hard Wood Decking	✗	✓	N/A	✗	✓	✓

Dura Deck® Eco Profiles

Product	Board Type	Board Thickness	Board Length	Board Width	Max Span	Weight / Lin m	Weight per length	Boards per Pallet
Eco 146	Hollow	25mm	3660mm	146mm	400mm	3.05Kg	11.16Kg	132 Pcs
Eco 146	Solid	25mm	3660mm	146mm	400mm	4.81Kg	17.60Kg	90 Pcs
Eco 295	Hollow	23mm	3660mm	295mm	550mm	6.56Kg	24.01Kg	66 Pcs
Eco 295	Solid	23mm	3660mm	295mm	550mm	8.97Kg	32.83Kg	42 Pcs
Eco Fascia	Solid	9mm	3660mm	230mm	Infill only	2.88Kg	10.54Kg	100 Pcs

Material Specifications

Test item	Test parameter	Dura Deck® Eco Test Results
Charpy Impact Strength	Test method: EN ISO 179-1:2010	4.4 kJ/m²
Density	Test method: ASTM D792-13 Method B	1.317 g/cm³
Flammability Resistance	Test method: EN13501-1 (EN ISO 9239-1) and (EN ISO 11925-2)	Cfl-S1 - As Standard
Flexural Stiffness	Test method: reference to ASTM D7032-17 Section 4.4 and ASTM D4761-13 Section 8	Flexural Stiffness: 4637 Mpa
Flexural Strength	Test method: reference to ASTM D7032-17 Section 4.4 and ASTM D4761-13 Section 8	33.7 Mpa
Freeze-Thaw Effect	Test method: ASTM D7032-17 Section 4.7 and ASTM D4761-13 Section 8 Freeze-thaw exposure cycle : ① Submerge underwater for 24h→② -29°C, 24h→③ 23±2°C, 24h→Step ①-③ as one cycle, total three cycles	Flexural Strength after freeze-thaw resistance: 33.7 Mpa
Linear Thermal Expansion (Lengthways)	Test method: ISO 11359-2:1999 Method A Rate of temperature: 3 °C/min	44.8×10-6 K-1
Low Temperature Effect (-29 ±2°C)	Test method: ASTM D7032-17 Section 4.5.1 and ASTM D4761-13 Section 8	45.4 Mpa
High Temperature Effect (52 ±2°C)	Test method: ASTM D7032-17 Section 4.5.1 and ASTM D4761-13 Section 8	27.4 Mpa
Moisture Effect (85%RH)	Test method: ASTM D7032-17 Section 4.5.2 and ASTM D4761-13 Section 8	34.4 Mpa
Resistance to Indentation	Test method: EN 15534-1:2014 Section 7.5	Brinell hardness: 104 Mpa
Tensile Strength	Test method: ASTM D638-14	23.2 Mpa
UV Light Ageing Test	Test method: ASTM G154-16 & ASTM D2244-16 UV Exposure cycle: Exposure duration: 1000h	ΔE*ab = Grey Scale 4
Water Absorption	Test method: EN 317:1993	0.50%

Anti-Slip Resistances

Slip Resistance Values - BS 7976*		Type 146	Type 146	Type 295	Type 295
Direction	Condition	Grooves	Woodgrain	Large Grooves	Woodgrain
Longitudinal	Dry	39	44	39	39
Transverse	Dry	63	51	74	52
Diagonal	Dry	52	46	51	53
Longitudinal	Wet	32	32	32	28
Transverse	Wet	45	44	38	39
Diagonal	Wet	37	38	39	36

*(4S Rubber Slider)
Pendulum Test Values (PTVs)
● Low Slip Potential (36+ PTV)
● Moderate Slip Potential (25-35 PTV)
● High Slip Potential (0-24 PTV)

6 Reasons For Choosing Dura Deck® Eco



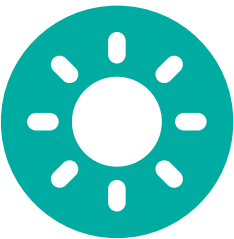
1. High Strength

Drawing on almost 25 years experience in composite flooring, Dura Deck® Eco has been designed to withstand high loads throughout its lifecycle.
In a first for decking products, the product exceeds 1.4kN at just 0.5% deflection as per BS 6399-1:1996. Due to its strength, the same span is recommended regardless of domestic or commercial use.



2. Low Water Absorption

Developed to achieve low water absorption of less than 0.5%, Dura Deck® Eco will continue to perform in all weather through its 10-year warranty period.



3. Colour Retention

Latest technology deployed to ensure the colour fade over time is minimal, providing a deck that always looks like new.



4. FSC™ Certified

Dura Deck® was the first brand to enjoy FSC™ certification, and despite being the entry level product, enjoys FSC™ as standard along with 87% recycled content.



5. Woodgrain Surface

The surface of Dura Deck® Eco has been specially developed to offer a natural woodgrain look, akin to wooden decking. Latest technology including a deep embossing process means that unlike other brands, the beautiful appearance will last and last, certified through abrasion testing.



6. Fire Rated

Designed and tested to pass BSEN13501 Class Cfl-s1 for ultimate peace of mind.

Striking and Versatile Dura Deck® Flip

Dura Deck® Flip 150

This stunning product takes the colours from our **Resist** range and combines them into one single decking board profile so you can experiment with two colours in one design, or 'flip' your deck at a later date for a whole new look.

It features our most beautiful surface ever and is designed to achieve the most natural wood look on the market.

This deck is produced via a co-extrusion process where a 360° outer armour is used to protect the core of the deck from the elements.

As a result, Dura Deck® **Flip Resist** is fire resistant to Class C, colour fade resistant, strength load resistant, stain resistant and also highly slip resistant.

With four different colour combinations (one colour on one side and another on the other), this innovative product allows the customer to create attractive deck designs featuring both complementary colours, or to flip their boards at a later date for a whole new look.

Available in lengths of 3.66m, it is easy to install and has a fantastic 15 year warranty. Dura Deck® **Flip Resist** never requires painting or treating and is easy to clean.

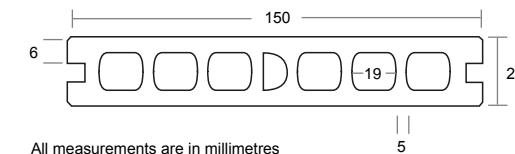


Dura Deck® Flip Resist 150
in Pebble Grey

FSC™ certified products available as standard in the UK. For International enquiries contact your Dura representative.

NEW

Dimensions



All measurements are in millimetres

15
YEAR
WARRANTY

Outer Armour

2
COLOURS ON
1 BOARD

Pebble Grey /
Weathered Cedar

Mahogany / IPE

Larch / Red Cedar

Basalt Grey /
Umbra Grey

For Universal Fixings please see page 21

 www.duracomposites.com/decking/

Why Choose Dura Deck® Flip?

Product Comparison Table

	1.4kN at 400mm Span 0.5% Deflection, against BS 6399-1: 1996	Fire Resistance Class C	Low Slip Potential Wet and Dry	Water Absorption (less than 0.2%)	Minimal UV Colour Fade (Min 5.7 / 1000 hrs)	100% FSC™ Available	Woodgrain Surface	Wipe Clean Stains
Dura Deck® Flip Resist	✓	✓	✓	✓	✓	✓	✓	✓
Other Co-extruded Composites	✗	✗	✓	✗	✗	✗	✓	✓
Soft Wood Decking	✗	✗	✗	✗	✗	✓	✓	✗
Hard Wood Decking	✗	✗	✗	✗	✗	✓	✓	✗

Dura Deck® Flip Resist Profiles

Product	Board Type	Board Thickness	Board Length	Board Width	Max Span	Weight / Lin m	Weight per length	Boards per Pallet
Flip Resist 150	Hollow	25mm	3660mm	150mm	400mm	3.10Kg	11.35Kg	168 Pcs
Flip Resist 150	Solid	25mm	3660mm	150mm	400mm	4.94Kg	18.08Kg	100 Pcs
Flip Resist Fascia	Solid	10mm	3660mm	180mm	Infill only	2.19Kg	8.56Kg	100 Pcs

Material Specifications

Test item	Test parameter	Dura Deck® Resist Test Results
Charpy Impact Strength	Test method: EN ISO 179-1:2010	10.5 kJ/m²
Density	Test method: ASTM D792-13 Method B	1.25 g/cm³
Flammability Resistance	Test method: EN13501-1 (EN ISO 9239-1 and EN ISO 11925-2)	Cfl-s1 - As Standard
Flexural Stiffness (MOE)	Test method: ASTM D7032-17 Section 4.4 and ASTM D4761-19	2894 MPa
Flexural Strength (MOR)	Test method: ASTM D7032-17 Section 4.4 and ASTM D4761-19	35.1 MPa
Freeze-Thaw Effect	Test method: ASTM D7032-17 Section 4.7 and ASTM D4761-13 Section 8 Freeze-thaw exposure cycle : ① Submerge underwater for 24h→② -29°C, 24h→③ 23±2°C, 24h→Step ①-③ as one cycle, total three cycles	36.1 MPa
Linear Thermal Expansion (Lengthways)	Test method: ISO 11359-2:1999 Method A. Rate of temperature: 3°/min	43.5 × 10-6 K-1
Low Temperature Effect (-29 ±2°C)	Test method: ASTM D7032-17 Section 4.5.1 and ASTM D4761-13 Section 8	50.3 MPa
High Temperature Effect (52 ±2°C)	Test method: ASTM D7032-17 Section 4.5.1 and ASTM D4761-13 Section 8	125.1 MPa
Moisture Effect 85%RH	Test method: ASTM D7032-17 Section 4.5.2 and ASTM D4761-13 Section 8	36.0 MPa
Resistance to Indentation	Test method: EN 15534-1:2014 Section 7.5	Brinell hardness: 89 MPa
Tensile Strength	Test method: ASTM D638-14	28.3 MPa
UV Light Ageing Test	Test method: ASTM G154-16 & ASTM D2244-16 UV Exposure cycle: Duration = 1000h	ΔE* = 0.58
Water Absorption	Test method: EN 317:1993	0.25% (24 Hours)
Water Absorption	Test method: EN 15534-1:2014 + A1:2017 Section 8.3.1 EN317:1993	1.48% (28 Days)

Anti-Slip Resistances

Slip Resistance Values - BS 7976*		Type 150
Direction	Condition	Woodgrain
Longitudinal	Dry	40
Transverse	Dry	46
Diagonal	Dry	42
Longitudinal	Wet	38
Transverse	Wet	36
Diagonal	Wet	37

*(4S Rubber Slider)
Pendulum Test Values (PTVs)
● Low Slip Potential (36+ PTV)
● Moderate Slip Potential (25-35 PTV)
● High Slip Potential (0-24 PTV)

6 Reasons For Choosing Dura Deck® Flip



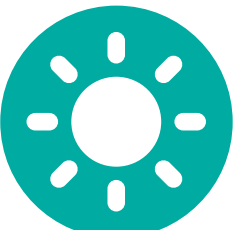
1. Resists Fire

Designed and tested to meet the requirements of BS EN 13501 Class Cfl-s1. A Class B fire rating is also available as special order, but is subject to extended lead times.



2. Resists Load

The Vortex Void design structure and unique material composition allows the deck to withstand 1.4kN point load according to BS 6399-1:1996 and to resist significant deformation or sag for its expected working life.



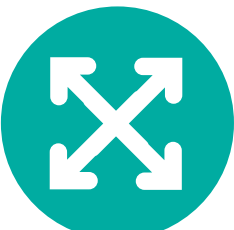
3. Resists Fade

Unique outer armour protects against fade for its entire life so that your deck always looks like it did when it was brand new.



4. Resists Stains

The revolutionary outer armour protects the deck surface from common stains like ketchup, mustard, tree sap and even cooking oil. Just wipe immediately with a clean wet cloth to remove common spills or use a pressure washer for more stubborn debris such as bird mess.



5. Resists Expansion

The latest technology and cutting edge production techniques means that Resist features a rate of expansion that is less than half of its competitors. This means the deck will look great whether it's hot or cold due to the 360° armour and incredibly low water absorption rate achieved through a close cell structure.



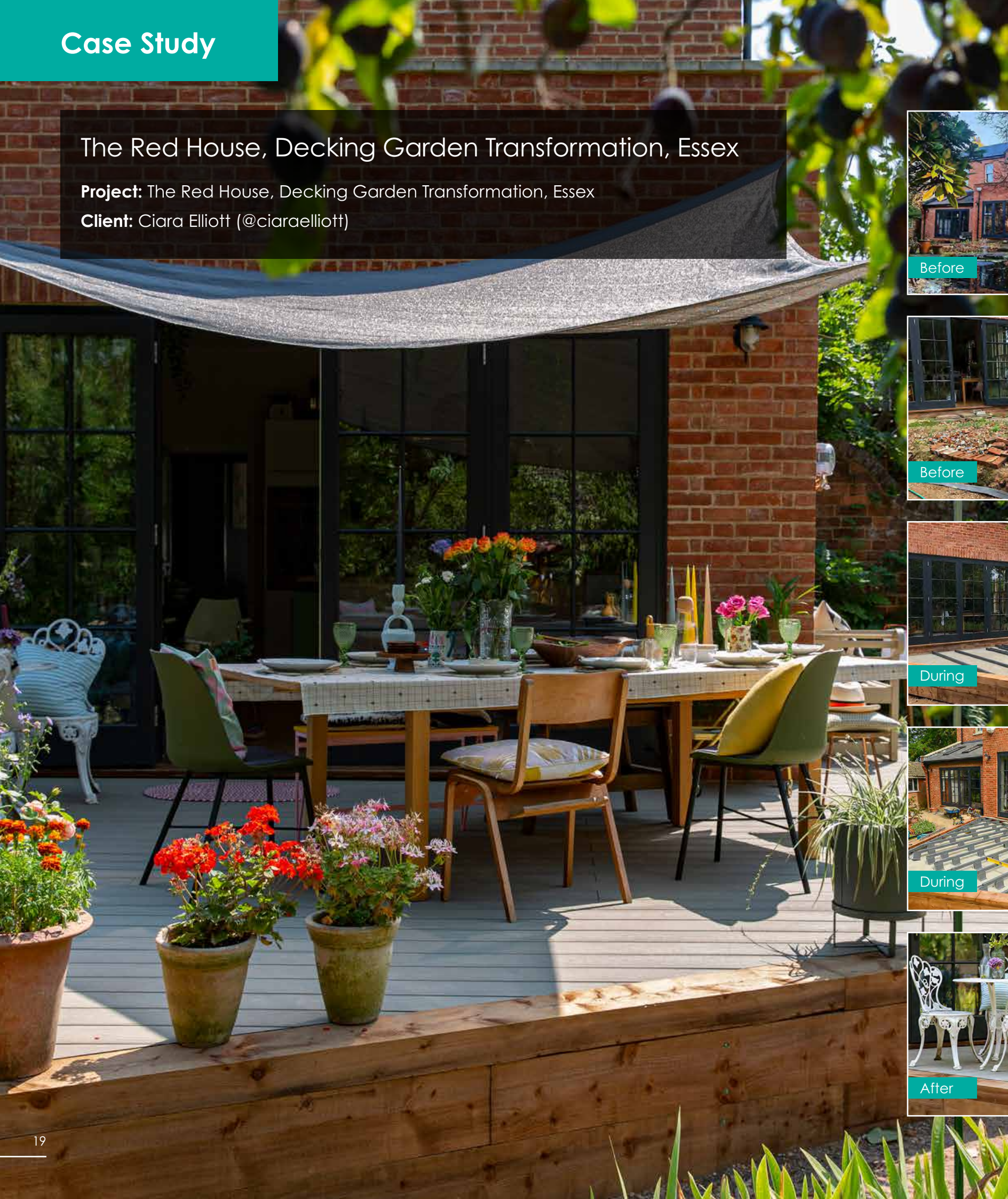
6. Resists Slips

The fantastic wood effect surface features a unique finish that allows the product to achieve low slip potential in dry or wet conditions, whatever the direction of travel. When planning your deck, please note that other manufacturers use the irrelevant 5S slip test as their benchmark, which is easier to achieve and relates to roads, not walkways. We don't!

The Red House, Decking Garden Transformation, Essex

Project: The Red House, Decking Garden Transformation, Essex

Client: Ciara Elliott (@ciaraelliott)



Before



Before



During



During



After

This beautiful garden in Essex was lacking a focal point for casual entertaining and the owners wanted to create a space that felt like a true extension of their home. The Georgian property was built in 1805 and has some Victorian additions.

Over the past six years it has been lovingly restored by Ciara and her husband Ben, including underpinning work to the foundations and a new roof.

Before

When viewing the house, the couple fell for the garden instantly, which consists of almost half an acre and is in a protected conservation area. The property once belonged to artist Peter Coker who maintained the garden in a French Monet style, with a lily pond surrounded by lavender, pretty flower beds and magnolia, pear, fig and olive trees – many of which have been incorporated into the garden renovation.

After

Journalist Ciara's passion for the unique and creative really shone through in her design for her composite decking area. With a love for creamy based neutrals to complement the earthy red brick tones the house, she chose pretty Dura Deck Flip composite decking in the colour Weathered Cedar for the main decking area. UV resistance, scratch and stain resistant and with a Class C fire rating, it was installed on rot-free Dura Deck Aluminium pedestals and bearers for a low-maintenance 'fit-and-forget' decking solution.

Ciara's top tip for styling your garden:

“

It pays to be **open-minded** and look for the **potential in things**. There are great finds to be had all over the place, even at Sainsbury's and Aldi – they **don't have to cost a lot**.

To get the feel of a Marrakech roof terrace, **hoist a simple canopy of flowing fabric or canvas above your dining area or lounging area** as we have done over our Dura Deck. Not only is this the perfect way to keep shaded from the sun, it also encapsulates that lovely **Nomadic ambience**.

”

Universal Fixings

Dura Composites' innovative subsurface fixing systems means no nails or screws need to go through the deck itself, creating a smart, uniform and barefoot friendly deck. Our unrivalled range of fixings cater for a wide range of installations in different environments. Our expert team and downloadable Installation and Technical Manual can provide further guidance on appropriate use of these fixing solutions and screw types.

Standard Fixings



6mm Gap Fixing Clip



Start/Stop Clip



Black Screw 25mm & 50mm
For installation with timber substructure
(If using C16 timber bearers)



Black Screw 30mm & 38mm
Self-drilling for installation with aluminium substructure
(If using 25mm aluminium bearers)

Finishing Options



Eco Fascia Board



Flip Fascia Board



Colour Coded End Caps



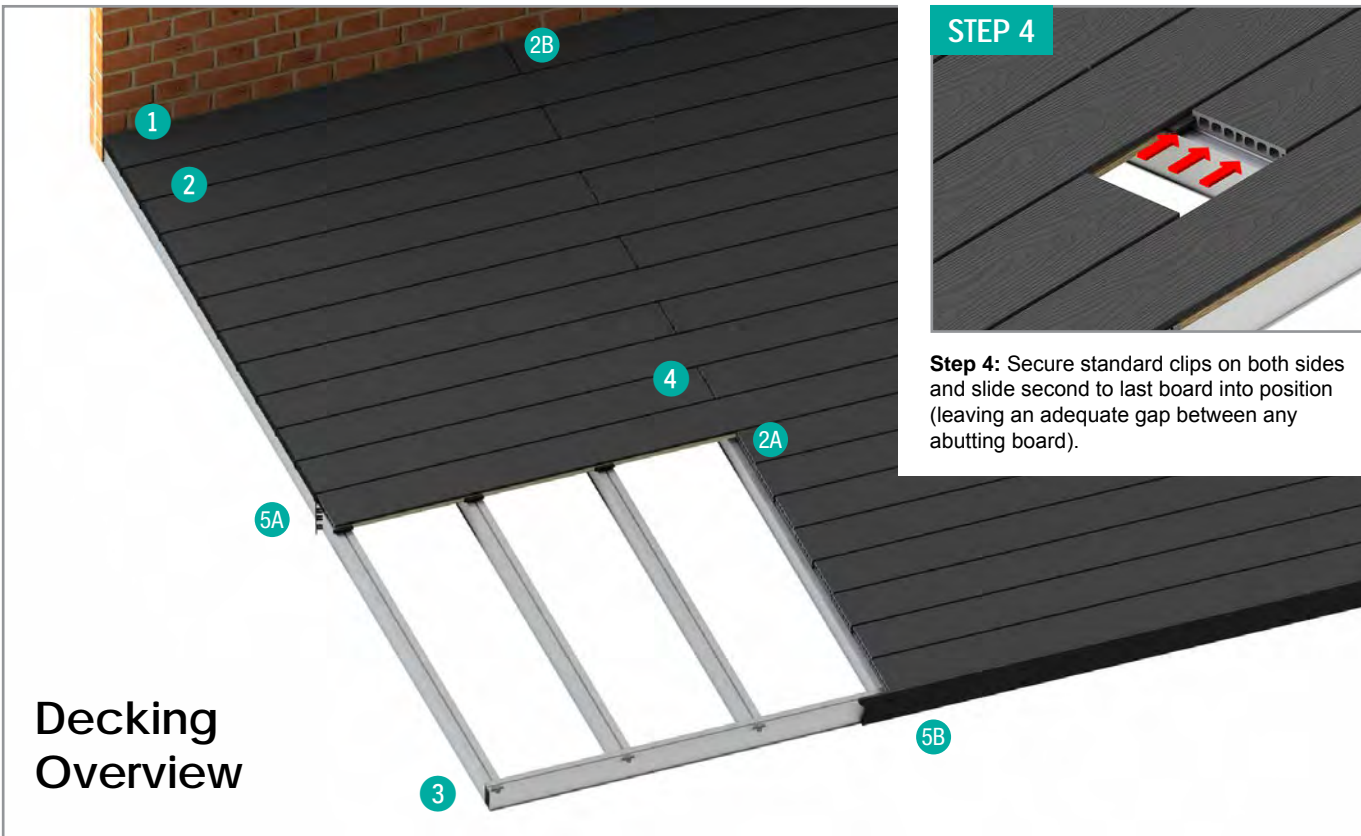
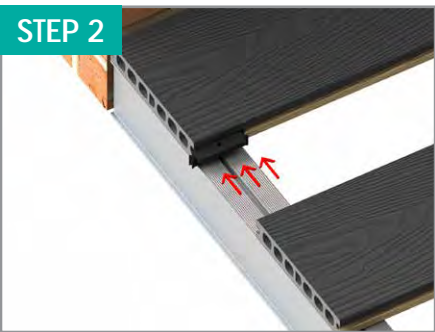
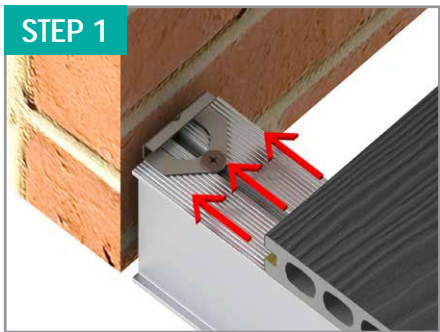
Dura Deck® Resist 150, in Weathered Cedar

Simple Installation

Step 1: Secure the first board in position by screwing the start stop clips into place along the bearer or joists. Push the first board into the clips, making sure that the clips hold the deck board securely.

Step 2: Position the standard fixing clip into the side channel of the board and screw down. Make sure they "pinch". Push the next board into place and repeat. Ensure you check the alignment of the boards each time.

Step 3: To secure the final board on the deck edge, use 1 start stop clip per bearer / joist or every 400mm on the parallel bearer or joist (as demonstrated).



Step 4: Secure standard clips on both sides and slide second to last board into position (leaving an adequate gap between any abutting board).

Finishing Options



Step 5A: Place end caps to finish your deck.

Step 5B: If using fascia to finish your deck, elongated holes should be used to allow for expansion and contraction.

Our Essential Guide to Getting the Most From Your Dura Deck® Installation

Whether you're planning a commercial or residential decking project, Dura Composites has a durable, simple to install, cost-effective and environmentally friendly solution to help maximise the use of outdoor space in all seasons.

Our high-performance composite decks combine fade-resistance with outstanding durability and mean you can spend less time maintaining your deck and more time enjoying it. To ensure you get the best results, we recommend working with a professional contractor with previous decking installation experience. Please ensure that the guidance provided here and in our supporting Technical Install Manual are strictly adhered to as improper installation (including the use of non-approved trims, fixings and accessories) will invalidate your product warranty.

To activate your product warranty after purchase, please complete the online form at www.duracomposites.com/warranty within 30 days.

When planning your Dura Deck®, please bear in mind the key considerations opposite.

To download the Dura Composites detailed Technical Manual, please visit: www.duracomposites.com/decking/decking-technical-installation-guides/



Please Note: All colour swatches and textures shown in this document are intended as a representation only and should not be considered as an exact colour match. We would always recommend ordering free colour samples so you can assess colour suitability before placing your order. Dura Composites' manufacturing process results in a high level of colour consistency although some variation in colour may be apparent across boards from different production batches. Whilst Dura Deck® Eco and Resist are extremely colour stable, there will likely be some initial colour lightening as the product weathers, which typically occurs in the first 3 months. The rate of weathering will vary according to the amount of UV and the surroundings.

1. Safety First



Before installing any decking product, you should review local building codes and regulations, and consult with local building officials to ensure compliance

and safety. Wear protective clothing and safety equipment where necessary such as safety glasses, gloves, dust masks and long sleeves, particularly if

cutting in confined spaces. Refer to the operator's manuals for safety guides for all power tools used.

2. Storage and Handling



To ensure the best performance of our products, it is vital that proper care and attention is given to storage and handling of materials. Please ensure you adhere to the following guidance:

- Store the products on a flat and level surface in their original packaging until you are ready to install them.
- If stored outdoors the pallets must be kept wrapped to prevent exposure to direct sunlight and weathering.

- Take care to ensure that boards are not stacked adjacent to sources of moisture.
- Professional fork lifts should always be used while uploading and discharging pallets. Pallet stacking should not exceed 4 pallets maximum.

3. Choose the Right Product for Your Needs



Our narrower boards can look more traditional as they more closely resemble natural wood boards (**Eco 146, Flip Resist 150**). However, if your priority is to make installation speed as quick as possible, then choose a wider board (**Eco 295**).

Our Eco boards also offer the option of a wood grain surface finish, or grooved surface design on the reverse, the choice is yours.

Be aware that very large or raised decks may require

planning permission. Raised decks should not be built with the deck level more than 600mm above ground level without specialist advice.

4. Thermal Expansion and Contraction



Extremely warm or cold outdoor temperatures play a significant role in the installation and performance of all decking products. Following the detailed installation instructions in our supporting Technical Manual

will help manage and reduce the effects of thermal expansion and contraction. Please refer to the gap guide in our Technical Manual to ensure your boards have adequate space for expansion and contraction and

to preserve the service life of your decking. Please ensure that you allow Dura Deck® to acclimatise to the exterior temperature before cutting and installing.

5. Care & Maintenance



Once you have completed the install of your Dura Decking, we advise that the decking is either washed down thoroughly with a yard broom or pressure washed to ensure that a good clean surface is ready for you to enjoy.

Basic Cleaning
Spray with hose to remove surface debris. Use warm soapy water and a soft bristled brush to clear dirt and/or debris from grooves/contours.

Pressure Washing
Pressure washers up to 1500psi may be used to maintain cleanliness of your Dura Deck®. In order to prevent any damage, always keep the pressure washer nozzle at least 15cm (6 inches) from the surface, and avoid concentrated spraying on one area for more than 3 seconds.

To download the Dura Composites detailed Technical Manual, please visit: www.duracomposites.com/decking/decking-technical-installation-guides/

Aluminium Support System

A2 Fire-Rated Dura Pedestals and Dura Bearers for Decking and Flooring Projects

Dura Deck® Flip 150, in Weathered Cedar

A2 Fire Rated Aluminium Pedestals & Bearers

Our Dura Pedestals and Dura Bearers can be easily combined to suit all project needs. With 7 different heights of pedestals and 3 different heights of bearers, the Dura Composites system provides the most economical substructure combination on the market and is suitable for balconies, garden projects and everything in between. The Dura Composites Aluminium Support System can be used on sloping or uneven ground with gradients of up to 10° Degrees - which is equivalent to an amazing 1:6 fall! For more details please see our dedicated Aluminium Support System Brochure.



10 year warranty for peace of mind

The paint coating on our Dura Pedestals and Bearers features an A2 rated anti-glare powder-coated finish that comes with a reassuring 10-year warranty. The anthracite colour will blend seamlessly into the floor surface, regardless of the decking surface colour you choose for your project.

Dura Deck Aluminium boards and bearers have been tested by a UKAS accredited certification body which provides independent third-party certification fire services. Our aluminium Dura Pedestals have also been tested by an independent laboratory and all test certificates are available on request. It is the responsibility of the client and contractor to ensure that your planned design is fully compliant with the latest Building Regulations. For further guidance on fire safety, please refer to the latest online government documentation, and for complex or high risk projects, please ensure that you consult a competent fire safety specialist.



Dura Bearers

Aluminium Dura Bearers offer a simple and long-life decking substructure solution for gardens, balconies and large commercial projects. Unlike timber subframes, which can twist, rot or warp over time, Dura Bearers are made from 6063 grade aluminium (T6) and have a greater strength-to-size ratio than traditional materials.

Features



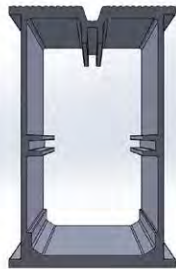
- Non-combustible, A2 fire-rated as standard
- High strength 6063 Grade Aluminium (T6)
- 100% recyclable
- Supports any type of conventional decking boards
- Versatile when combined with Dura Pedestals
- Anthracite powder coating to bearers and pedestals - RAL7043
- 10 Year warranty on painted finish
- Expected 60-year design life

Benefits

- • Meets latest safety legislation
- • Strong and long lasting
- • Sustainable solution with long design life
- • Will never rot, ensuring superior longevity of decking
- • Combined with Dura pedestals to overcome complex site issues
- • Protective anti-glare paint coating avoids reflection in sunlight
- • Blends seamlessly into decking and won't flake or fade
- • Years of useful service life for maximum peace of mind

Available in three sizes (25mm, 50mm and 75mm), Dura Bearers can be installed directly onto hard surfaces, such as concrete or paving, as well as onto soft surfaces such as soil, sand or grass, (provided the area has been compacted and bricks, pavers or concrete slabs are placed beneath the bearers at suitable intervals).

When combined with our Dura Pedestal range as a complete A2-fire rated system, they can be used on sloping or uneven ground with gradients of up to 10° Degrees - which is equivalent to an amazing 1:6 fall!

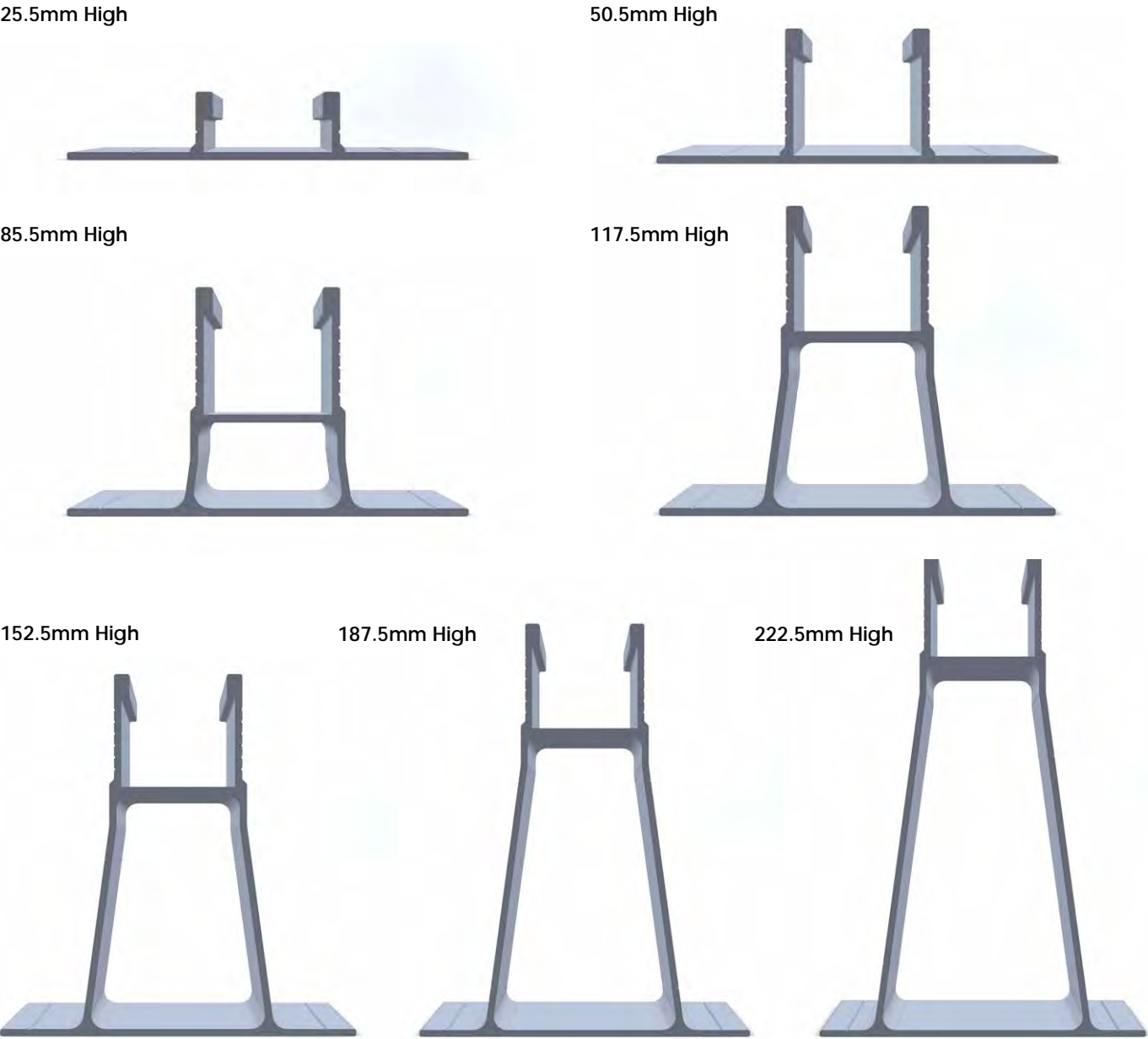
Dura Aluminium Bearer 25mm	Dura Aluminium Bearer 50mm	Dura Aluminium Bearer 75mm
(Milled Finish 25x48x3660mm ^{**}) (Anthracite Painted Finish 25x48x3660mm)	(Milled Finish 50x48x3660mm ^{**}) (Anthracite Painted Finish 50x48x3660mm)	(Milled Finish 75x48x3660mm ^{**}) (Anthracite Painted Finish 75x48x3660mm)
<div> <div>25mm</div>  </div>	<div> <div>50mm</div>  </div>	<div> <div>75mm</div>  </div>

^{**}Special Order only

Dura Pedestals

Aluminium Dura Pedestals have an A2 fire-rating and a unique patented (GB 2589392) design which helps overcome even the most complex of installation challenges. Available in 7 different variants, the anthracite coloured pedestals are designed to work seamlessly with our aluminium Dura Bearers to provide the most economical A2 rated support system on the market.

Unlike plastic pedestals, the Dura Pedestals have a single unit construction, with no fiddly separate components (such as bearer holders, slope correctors or spacers) to unpack and assemble. The tripod design features enhanced stability to mitigate the risk of rolling and can be butted right up to the wall or edge without the need for cuts. If your project requires a fall, or if your substructure is not level, each pedestal includes handy visual notches at 5mm intervals so you can easily secure your bearers at your desired height.



Technical Specifications

Aluminium Support System - Dura Pedestals & Dura Bearers

Description /Options	Heights achieved with 25mm Bearer		Heights achieved with 50mm Bearer		Heights achieved with 75mm Bearer	
	Min Height (mm)	Max Height (mm)	Min Height (mm)	Max Height (mm)	Min Height (mm)	Max Height (mm)
A2 PEDESTAL OPTIONS						
Aluminium Pedestal 25.5mm (Anthracite Painted Finish)	28	38	53	63	78	88
Aluminium Pedestal 50.5mm (Anthracite Painted Finish)	53	65.5	53	88	78	113
Aluminium Pedestal 85.5mm (Anthracite Painted Finish)	88	100.5	88	123	113	148
Aluminium Pedestal 117.5mm (Anthracite Painted Finish)	120	132.5	120	155	145	180
Aluminium Pedestal 152.5mm (Anthracite Painted Finish)	155	167.5	155	190	180	215
Aluminium Pedestal 187.5mm (Anthracite Painted Finish)	190	202.5	190	225	215	250
Aluminium Pedestal 222.5mm (Anthracite Painted Finish)	222.5	237.5	222.5	260	250	285

Building / Project Suitability

- All Public & Private Buildings requiring an A2 Fire Rating
- Recessed Galvanised Steel Balconies
- Projected Galvanised Steel Balconies
- Recessed Concrete Balconies
- Roof Top Terraces
- Pub & Hotel Deck Areas
- Smoking Areas, Terraces
- Commercial Walkways
- Domestic Gardens
- Raised Terraces
- Washbays and elevated walkways

Material

6063 Grade Aluminium (T6)

Recyclability

Durable and long lasting, our aluminium decking is 100% recyclable at the end of its use, making it an eco-friendly option.

Finish

Anthracite powder coated finish as standard to blend in seamlessly with any decking project. Mill finish available by special order.

Fixing Method

Hidden Bi-Metallic Pan Head Self Drilling Screws

Warranty

10 year warranty on painted surface finish. 60 year expected service life.



Photo courtesy of Mistley Fencing & Landscaping

Up to 4 Times Faster Than Other Decking Substructure Methods



Suitable for all kinds of decking installation

The Anthracite paint finish of the bearers and pedestals won't stand out against the decking surface. Versatile height combinations will suit all threshold requirements.



Fewer components to buy, unbox and install

Dura Pedestals come in easy to handle boxes of up to 25 units, with no fiddly separate components (such as slope correctors or fixed heads) - saving you valuable time on site.



Suitable for all high rise or public sector projects which require fire-rated solutions

The Dura Pedestal and Bearer system has been developed to be fully compatible with the latest developments in fire safety legislation to help improve building safety. Both components achieve a Class A2 fire rating to EN13501-1 flooring standards with their anthracite powder coated finish and an A1 rated mill finish is also available by special order. We also offer Class A2 Dura Deck Aluminium Standard Duty (SD 18mm) and Dura Deck Aluminium Heavy Duty (HD 27mm) as the perfect complementary decking surface finish.



Single unit construction gives added stability

Unlike plastic pedestals which are made of multiple components with several potential points of weakness, our patent-pending design offers enhanced stability and less risk of movement or rolling during installation.

Inserting the bearer immediately prevents the pedestal from falling over which is particularly useful in situations where the project is being installed by a single worker.



Ideal for use on sloping or uneven ground

When Dura Bearers and Dura Pedestals are combined, they are able to overcome a huge slope range and can be used in areas with gradients of up to 10° Degrees - which is equivalent to a 1:6 fall!



Unique design self-adjusts to the correct position

Each pedestal can be slid onto the bearer in a matter of seconds. When the bearer is fixed into the first and last pedestal of the run at the right height, it creates the required fall at a pre-set angle, so there's no need to adjust each individual pedestal.



The mark of
responsible forestry
Look for FSC™
certified products



Head Office

Dura Composites Ltd
Dura House, Telford Road
Clacton On Sea
Essex, CO15 4LP
United Kingdom

Tel: +44 (0)1255 440298
Email: info@duracomposites.com

www.duracomposites.com

Unlocking the Power of Composites™
» for Outdoor Decking Areas

Due to our policy of continual improvement we reserve the right to change specifications at all times without prior notice.

© 2022 Dura Composites

dura™
composites

