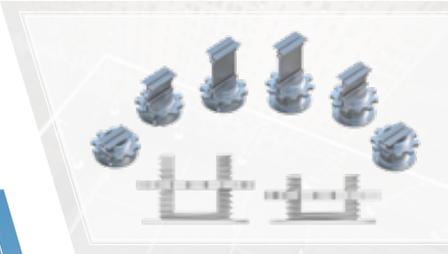




 **SYNERGISED™**
INNOVATIVE DECKING SOLUTIONS



WORKING WITH METAL FOR OVER 130 YEARS



Synergised™ Decking System for Balconies and Terraces

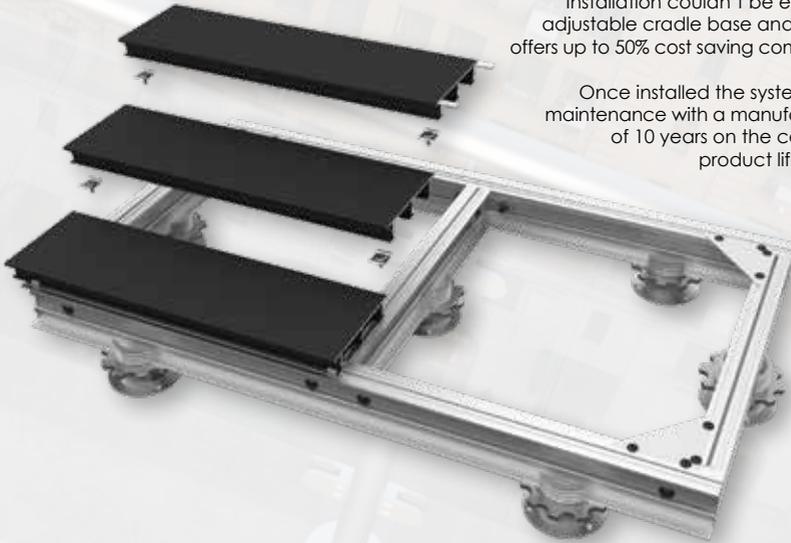
Fully non-combustible fire rated A1 and A2fl-s1 aluminium decking system designed for both residential and commercial environments such as high-rise balconies, walkways, roof terraces, pubs, gardens and all other high-rise applications and public areas.

Available in 3 contemporary colours our deck boards are manufactured from structural grade 6063 T6 aluminium with 100 micron Qualicoat™ premium powder coating, making it the ideal decking solution for high footfall areas. The premium coating is low slip and provides low surface temperatures underfoot.



Installation couldn't be easier, with our innovative adjustable cradle base and joist support system that offers up to 50% cost saving compared to other solutions.

Once installed the system is long lasting and low maintenance with a manufacturer's limited warranty of 10 years on the coating with an expected product life expectancy +25 years.



- ◆ Euroclass Classifications A1 and A2fl-s1 fire rated
- ◆ Made from structural grade 6063 T6 aluminium
- ◆ Ideal for high rise concrete balconies & terraces
- ◆ Up to 50% cost saving compared to other systems
- ◆ 100 micron Qualicoat™ premium powder coating
- ◆ Adjustable cradle and deck support system
- ◆ Cradle spacing up to 1800mm
- ◆ Low surface temperatures
- ◆ Long lasting and low maintenance
- ◆ Lightweight and easy to install
- ◆ Mill finish subframes and cradles
- ◆ 10 year warranty on powder coating

About us



For over 130 years fabricators, building contractors and specifiers have trusted F.H. Brundle to supply their metal product requirements. Collaboration between the in-house design team and experts in aluminium decking have resulted in an A1 and A2fl-s1 fire rated system now being available.

Easy
to cut

Easily
adjustable

Why choose Synergised?

When choosing a new or replacement deck, there will be several factors that influence your decision particularly the application and whether you require fire rated performance. Synergised is an innovative new aluminium deck system where the deck boards, subframe and adjustable cradles have been designed to replace non-fire rated products to provide peace of mind. The system offers unsurpassed durability and longevity, using 6063 T6 aluminium, 100 micron Qualicoat™ premium powder coating and mill finish.

Fire Rating

Synergised meets the requirements for any application that requires Euroclass Classifications A1 and A2fl-s1 fire rating, such as residential and mixed-use developments above 4 storeys, plus schools, universities, hospitals, libraries and care homes, as well as new or replacement decks on balconies that are above 11m in height.



Key features of the Synergised deck system



Timber replacement

System flexibility ensures that whatever timber decking is being replaced, our adjustable cradles and subframe are simple to work with and achieve that perfect solution with steelwork.

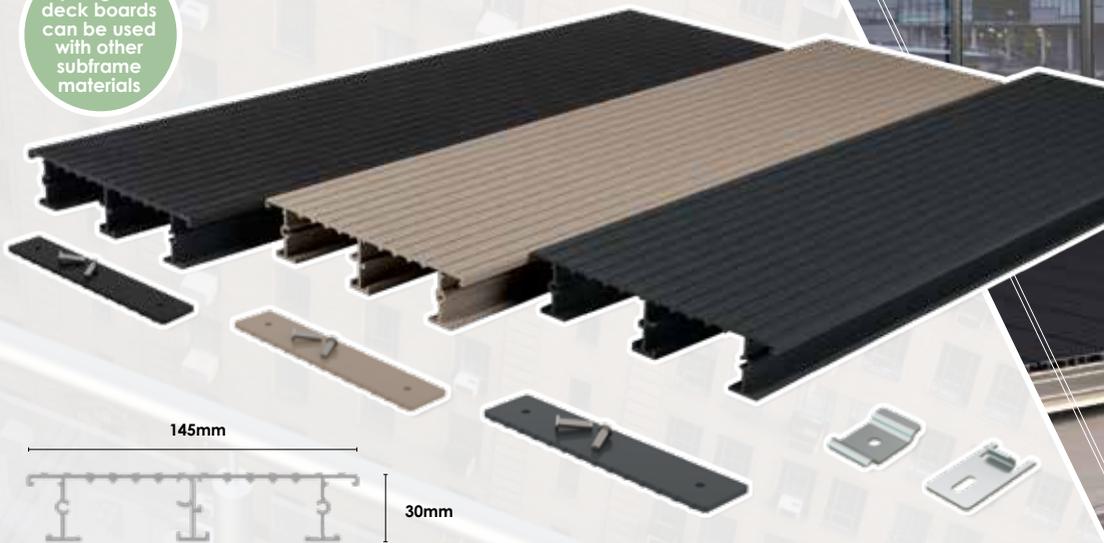


Concrete balcony and terrace

By providing substantial height adjustment with 2 joist cradles and 3 joist heights, the support system was designed to make installation easier where there are height build ups on balconies and terraces.



Synergised deck boards can be used with other subframe materials



Synergised Deck Board

FREE SAMPLE DECK BOARDS AVAILABLE

Synergised high performance outdoor aluminium deck keeps looking great year after year. Enjoy the value of owning a deck with virtually no annual maintenance costs.

Available in 3 designer colours of Anthracite, Black and Serengeti Sand. The Qualicoat™ premium powder coat finish provides an extremely strong, UV stable surface finish. With excellent colour retention characteristics, Qualicoat™ premium powder coat ensures there are no before and after colour changes or fading, typically experienced with other deck products. The surface is comfortable on your feet, stays cool in the hot sun and is slip-resistant for added safety and security.

The hidden fastening system correctly spaces the decking boards for a consistent 5mm gap and easy installation.

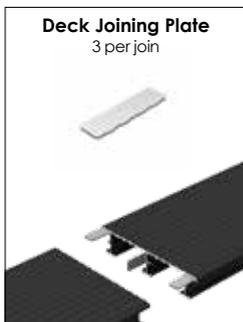
Features include:

- ◆ 3 colours - Anthracite, Black & Serengeti Sand
- ◆ 100 micron Qualicoat™ premium powder coating
- ◆ Anti-slip
- ◆ Easy to install
- ◆ UV resistant
- ◆ 100% recyclable
- ◆ Low surface temperature
- ◆ End caps for a neat finish
- ◆ Matching deck trims available
- ◆ 5mm board spacing
- ◆ Lightweight and easy to handle
- ◆ Low maintenance
- ◆ Available in 3600mm lengths

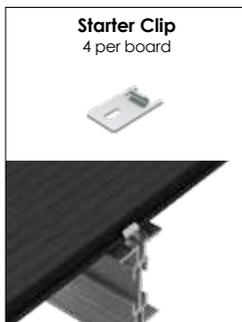
End Cap



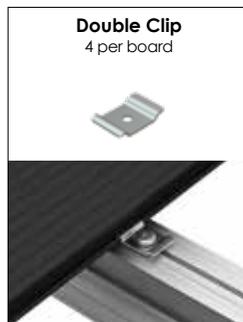
Deck Joining Plate
3 per join

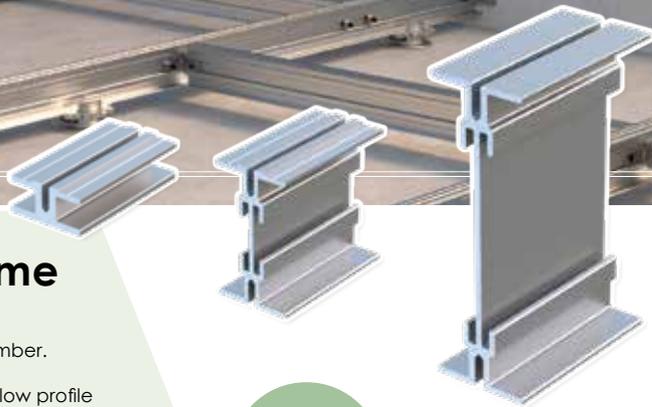


Starter Clip
4 per board



Double Clip
4 per board





Synergised Subframe

A high performing subframe which is a long-lasting and durable alternative to timber.

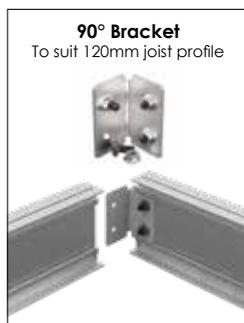
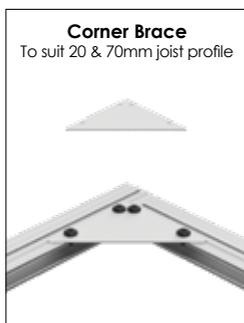
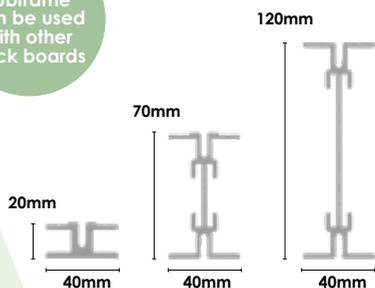
The 20mm joist height allows for the ultra-low profile applications.

The aluminium joists are easy to cut, lightweight to handle and allow for quick and easy deck building.

Synergised subframe can be used with other deck boards

Features include:

- ◆ Available in 3 heights
- ◆ Quick to assemble
- ◆ 3600mm lengths
- ◆ 1000mm joist spacing for 30mm boards
- ◆ Easy to cut
- ◆ Cradle spacing up to 1800mm
- ◆ Lightweight
- ◆ Mill finish



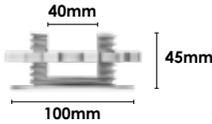
Synergised Aluminium Adjustable Cradle

These adjustable cradles are simple to install, with height adjustments ranging from 45 to 180mm, when combined with our joist profiles will ensure your deck is at the correct angle. Our innovative cradle base and joist support system offer up to 50% cost saving compared to other solutions.

The adjustable cradle has been designed by industry professionals to comply with Eurocode 1: Actions on Structures (BS EN 1991-1-1). The system has been assessed for point loading in relation to both domestic and commercial use, making it suitable for a range of applications.



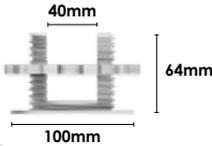
45mm Adjustable Cradle



Minimum - Maximum Height



64mm Adjustable Cradle



Minimum - Maximum Height



Features include:

- ◆ Easy to install
- ◆ Fully adjustable from 45 to 180mm
- ◆ Lightweight and easy to handle
- ◆ Mill finish



Synergised adjustable cradles can be used with other subframe materials

Technical Specification

Features include:

- Anti-slip pendulum test to BS7976-2 dry and wet
- Reaction to fire performance (A1 and A2fl-s1) in accordance to EN 13823, EN 13501 and EN ISO 1716

Full details
can be found
on our website
www.fhbrundle.co.uk

Tested for commercial applications

5kN/m2 Distributed Load @ 1/480 Deflection Criteria.

| Description | Cradle Support Spacing (mm) |
|-------------|-----------------------------|
| 120mm beam | 1800 |
| 70mm beam | 1100 |
| 20mm beam | 500 |

| Description | Joist Spacing (mm) |
|-------------|--------------------|
| 30mm board | 1000 |

Deck board temperature comparison chart

Ambient temperature 31° Celsius.

| Description | Max Temperature °Celsius |
|----------------------------------|--------------------------|
| 30mm Aluminium Serengeti Sand | 43 |
| 30mm Aluminium Anthracite | 49 |
| 30mm Aluminium Black | 50 |
| 23mm Cedar hollow composite | 54 |
| 23mm Anthracite hollow composite | 55 |
| 23mm Grey hollow composite | 55 |
| 38mm Cedar stained softwood | 57 |

Tested with handheld infrared thermometer in direct sunlight.

Pendulum test results

Dry test

| Sample code | Mean resistance Operator 1 | Mean resistance Operator 2 |
|--------------------|----------------------------|----------------------------|
| 1 | 65 | 63 |
| Product mean | 64 | |
| Product minimum | 63 | |
| Product maximum | 65 | |
| Standard deviation | 1 | |

Wet test

| Sample code | Mean resistance Operator 1 | Mean resistance Operator 2 |
|--------------------|----------------------------|----------------------------|
| 1 | 50 | 48 |
| Product mean | 49 | |
| Product minimum | 48 | |
| Product maximum | 50 | |
| Standard deviation | 1 | |

System Product Codes

Deck boards and end caps (page 4)

| Length (mm) | Colour | Deck Board Code | End Cap Code |
|-------------|--------------|-----------------|--------------|
| 3600 | Anthracite | 79DB30A | 79DBEC30A |
| | Black | 79DB30B | 79DBEC30B |
| | Serengeti S. | 79DB30SS | 79DBEC30SS |

Joists (page 5)

| Length (mm) | Size (mm) | Code |
|-------------|-----------|--------|
| 3600 | 20 | 79J020 |
| | 70 | 79J070 |
| | 120 | 79J120 |

Adjustable cradle (page 6)

| Size (mm) | Code |
|-----------|---------|
| 45 | 79PED45 |
| 64 | 79PED64 |

FREE SAMPLE DECK BOARDS AVAILABLE

Deck board clips and fixings (page 4)

| Fixing | Code |
|--|---------|
| Deck joining plate - 3 per join (100 per pack) | 79DJP |
| Starter clip - 4 per board (1 per pack) | 79DSC01 |
| Double clip - 4 per board (1 per pack) | 79DC01 |

Joist joining kits (page 5)

| Description | Size (mm) | Code |
|----------------------------------|-----------|----------|
| Corner brace (1 per pack) | 20 & 70 | 79CB20 |
| 90° bracket (4 per pack) | 70 | 79JBK70 |
| | 120 | 79JBK120 |
| Joist mounting clip (1 per pack) | 70 & 120 | 79MP01 |

| Screws and Torx bits for installation | Code |
|--|---------|
| Screws for deck board clips (100 per pack) | 79SS |
| T15 Torx bit for end caps (1 per pack) | 79TX001 |
| T40 Torx bit for 90° brackets (1 per pack) | 79TX002 |



 **SYNERGISED™**
INNOVATIVE DECKING SOLUTIONS

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May 2021