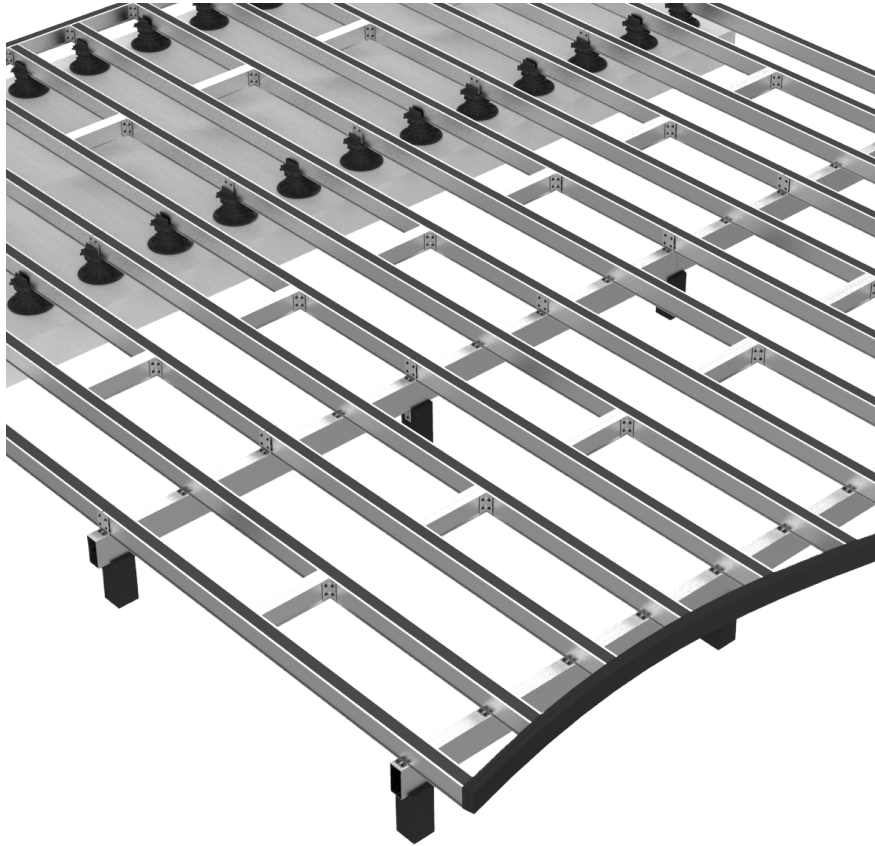


DuoSpan™ 99mm Joist & DuoSpan™ 136mm Beam



The information in this document was correct at the time of going to print, due to our culture of continuous improvement we reserve the right to change the information at any time without prior notice should further tests reveal different results.

Millboard Product Technical Sheet
DuoSpan™ 99mm Joist & DuoSpan™ 136mm Beam

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DuoSpan 99mm Joist

| | |
|--|----------------------|
| Material | Aluminium alloy 6063 |
| Profile | 99x68x3600mm |
| Weight | 5.4kg |
| Temper | T66 |
| Finish | Mill |
| Extrusion standard | EN 755-9 |
| Max unsupported joist span (domestic applications)* | 1800mm* |
| Max unsupported joist span (commercial applications)* | 1350mm* |
| Point load deflection criteria | 1/360 |
| Thermal Expansion | 0.0235 mm/m/°C |

* Recommended - Refer to loading tables for accurate results based on point loading and UDL criteria

DuoSpan 136mm Beam

| | |
|---|----------------------|
| Material | Aluminium alloy 6063 |
| Profile | 136x63x3600mm |
| Weight | 7.9kg |
| Temper | T66 |
| Finish | Mill |
| Extrusion standard | EN 755-9 |
| Max unsupported Beam span (domestic applications)* | 1800mm* |
| Max unsupported Beam span (commercial applications)* | 1350mm* |
| UDL deflection criteria | 1/360 |
| Thermal Expansion | 0.0235 mm/m/°C |

* Recommended - Refer to loading tables for accurate results based on point loading and UDL criteria

Millboard Deck Boards

| | Test Method | Unit | Enhanced Grain result | Weathered Oak result |
|---|-----------------|-------------------|--|----------------------|
| Material | - | - | Polyurethane with fibre reinforcement and stone filler | |
| Board profile | - | mm | 176x32x3600 | 200x32x3600 |
| Joist centres (Domestic Applications) | - | mm | 400 | 400 |
| Joist centres (Commercial Applications) | - | mm | 300 | 300 |
| Weight per sqm | - | KG/m ² | 16.7 | 16.4 |
| Slip resistance (Dry) | BS EN 14231 | PTV | 49-60 | 54-79 |
| Slip resistance (Wet) | BS EN 14231 | PTV | 36-42 | 41-56 |
| Point Loading (Domestic application – 400mm) | BS EN ISO 14125 | kN | 5.52 | 5.65 |
| Point Loading (Commercial application – 300mm) | BS EN ISO 14125 | kN | 7.14 | 5.78 |
| Flexural Stress (Domestic application – 400mm) | BS EN ISO 14125 | MPa | 21.36 | 19.46 |
| Flexural Stress (Commercial application – 300mm) | BS EN ISO 14125 | MPa | 22.75 | 18.32 |
| Fire Classification | EN 13501-1 | - | Bfl – s1 | |

DuoSpan Joist Insert

| | |
|--------------------------|---|
| Material | Recycled Plastic (Polypropylene & Polyethylene) |
| Profile | 25x50x3000mm (approx. size) |
| Weight | 3.7kg |
| Finish | Black |
| Thermal Expansion | 0.1899 mm/m/°C |
| Screw Pull out | 7.5kN |

Plas-Pro Fascia Support

| | |
|--------------------------|---|
| Material | Recycled Plastic (Polypropylene & Polyethylene) |
| Profile | 100x25x3000mm |
| Weight | 8kg |
| Finish | Black |
| Thermal Expansion | 0.1511mm/m/°C |
| Screw Pull out | 8.14kN |

What is it?

The DuoSpan 99mm Joists used with the DuoSpan 136mm Beams makes for a comprehensive subframe system that has been designed by engineers which enables construction of complex decks with ease, for applications on ground level decks and boardwalks.

Comprised of aluminium Joists, aluminium beams, aluminium brackets and plastic joist inserts, the system combines lightweight ease of handling, almost perfect straightness and optimum stability once installed.

Where to use:

The DuoSpan 99mm Joists used with the DuoSpan 136mm Beams and Plas-Pro Posts is for use in areas over soft substrates, areas where the Plas-Pro Posts can be concreted or driven into the ground.

Loading Info:

Allowable Load (for **residential applications**), recommended centres: 400mm joist centres, Joists and Beams supported every 1800mm centres (based on a UDL of up to 2.5kN/m² and a point load of 2.0kN as per Eurocode 1 Action on Structures BS EN 1991-1-1:2002 - please see DuoSpan loading tables for more information on this).

Allowable Load (for **commercial applications**), recommended centres: 300mm joist centres, Joists and Beams supported every 1200mm centres (based on a UDL of up to 5kN/m² and a point load of 3.6kN as per Eurocode 1 Action on Structures BS EN 1991-1-1:2002 - please see DuoSpan loading tables for more information on this).

Accessories information:

DuoSpan 99mm Joists & 136mm Beams fixed together using DuoSpan aluminium brackets and provided fixings, specialist designed fixings are cathodic barrier coated with a 1000-hour salt spray resistance for minimal galvanic corrosion. A full list of accessories are listed opposite.

DuoSpan profiles

| Contents | Code |
|--------------------|-----------|
| DuoSpan 99mm Joist | K9968J360 |
| DuoSpan 136mm Beam | K1363B360 |

DuoSpan brackets (incl. fixings)

| Contents | Code |
|-------------------------------|-------------------------|
| DuoSpan 99 90° Angle Bracket | K99RP010 (box of 10) |
| DuoSpan 99 Flexible Bracket | K99FP010 (box of 10) |
| DuoSpan 99 Straight Connector | K99LP010 (box of 10) |
| Hold-down Clip | K48CP030 (box of 30) |

Accessories

| Contents | Code |
|--|--------------------------|
| DuoSpan Bracket to Plas-Pro Screw (5x25mm PZ2) | FD25P100 (box of 100) |
| Plas-Pro to DuoSpan screw (5x50mm T25) | FD50P100 (box of 100) |
| Durafix 4.5x45mm | FT45P250 (box of 250) |
| Durafix 4.5x35mm fascia screws | FT35P100 (box of 100) |

DuoSpan insert

| Contents | Code |
|----------------------|-----------|
| DuoSpan Joist Insert | K2554B240 |

Plas-Pro Post

| Contents | Code |
|------------------------------|-----------|
| Plas-Pro Post 100x100x3000mm | P1010B300 |

Plas-Pro

| Contents | Code |
|----------------|-----------|
| Fascia Support | P0210B300 |

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