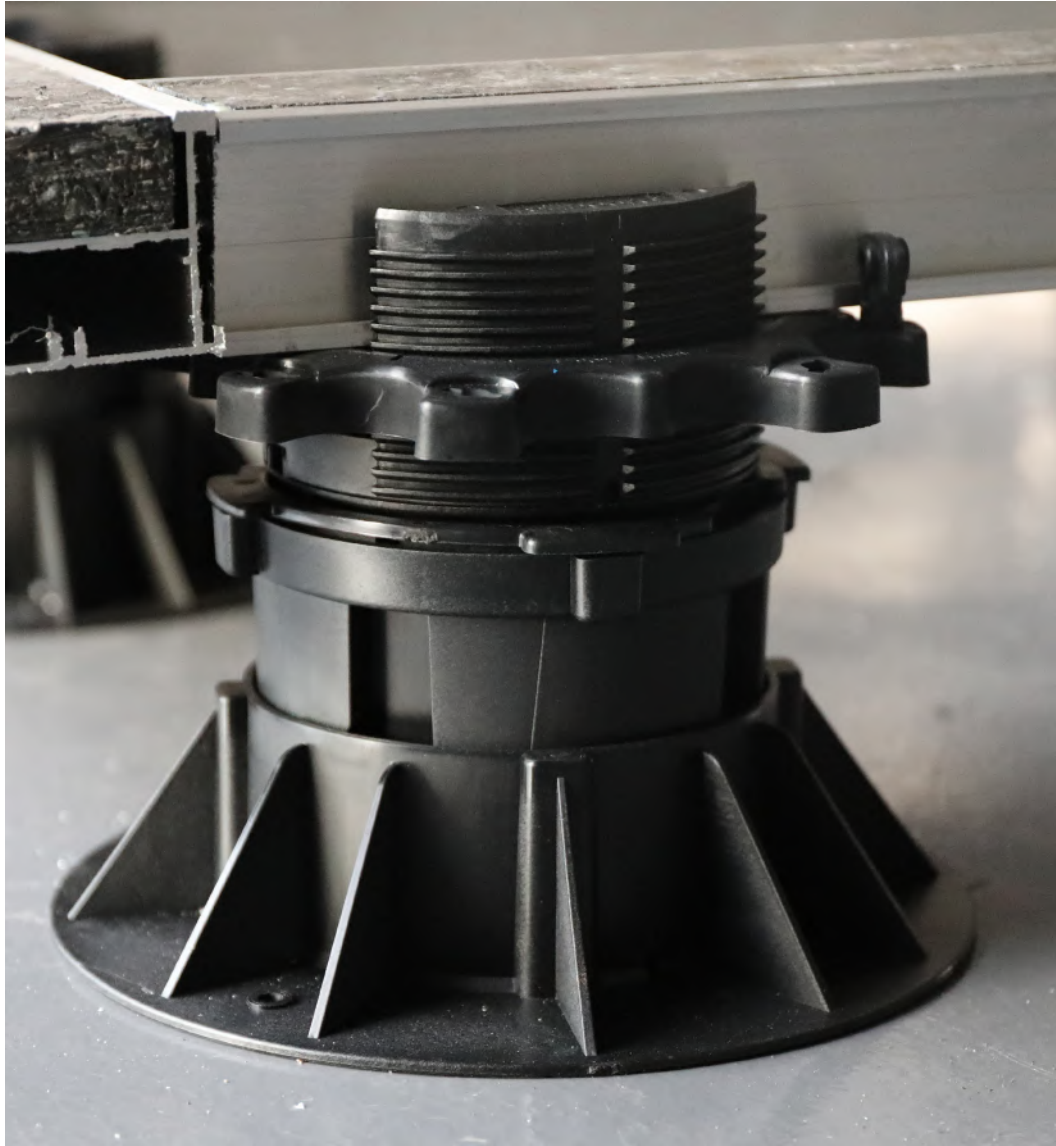


# DuoSpan™ 51mm Joist & DuoLift™ Joist Supports



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™ 51mm Joist & DuoLift™ Joist Supports



## DuoSpan 51mm Joist

<b>Material</b>	Aluminium alloy 6063
<b>Profile</b>	51x68x3600mm
<b>Weight</b>	4.1kg
<b>Temper</b>	T66
<b>Finish</b>	Mill
<b>Extrusion standard</b>	EN 755-9
<b>Max unsupported joist span (domestic applications)*</b>	900mm*
<b>Max unsupported joist span (commercial applications)*</b>	510mm*
<b>Point load deflection criteria</b>	1/250
<b>Thermal Expansion</b>	0.0235 mm/m/°C

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

## DuoSpan Joist Insert

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

## DuoLift Joist Supports

<b>Material</b>	100% Recycled 30% Glass Filled Nylon6
<b>DuoLift Joist Cradle, Self-Levelling Joint and Riser diameter</b>	114mm
<b>DuoLift Foot diameter</b>	220mm
<b>Height range</b>	15-350mm*
<b>Working temperature</b>	-30°C to +120°C
<b>Biological/ Chemical</b>	Resistant to Moulds, Algae, Alkali, Bitumen, UV
<b>Flamability</b>	UL94 Class HB
<b>Loading Capacity</b>	5kN
<b>Factor of Safety</b>	1.4-1.9

\*Refer to 'Installation Guide for DuoSpan Joists & DuoLift Joist Supports' for accurate height specifications

## Plas-Pro Fascia Support

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

## Millboard Deck Boards

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

## What is it?

The DuoSpan 51mm Joists used with the DuoLift Joist Supports makes for a comprehensive subframe system that has been designed by engineers which enables construction of complex decks with ease, for applications on roof terraces and ground level decks.

Comprised of aluminium Joists, 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 51mm Joists used with the DuoLift Joist Supports are suitable for roof terraces and ground-level terraces, the DuoLift Joist Supports require a substrate that is solid, stable and structural (not directly onto soil).

## Loading Info:

Allowable Load (for **residential** applications), recommended centres: 400mm joist centres, DuoLift Joist Supports every 900mm centres along joist (based on a UDL of up to 2.5kN/m<sup>2</sup> 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, DuoLift Joist Supports every 600mm centres along joist (based on a UDL of up to 5kN/m<sup>2</sup> 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 51mm Joists 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.

DuoLift Acoustic Separation Pads are agglomerated cork and recycled rubber pads used to offer a layer of protection between joist supports and membranes, as well as providing an acoustic benefit. Full list of accessories are listed opposite.

## DuoSpan Profiles

Contents	Code
DuoSpan 51mm Joist	K5168J360

## DuoLift Joist Supports

Contents	Code
DuoLift Joist Cradle 15-60mm	PMCP010 (box of 10)
DuoLift Self-Levelling Joint 20mm	PMLP010 (box of 10)
DuoLift Riser 45mm	PMRP010 (box of 10)
DuoLift Foot 45mm	PMFPP010 (box of 10)
DuoLift Acoustic Separation Pad 3mm	PMAP010 (box of 10)

## 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

## DuoSpan Brackets (incl. fixings)

Contents	Code
DuoSpan 51 90° Angle Bracket	K51RP010 (box of 10)
DuoSpan 51 Flexible Bracket	K51FP010 (box of 10)
DuoSpan 51 Straight Connector	K51LP010 (box of 10)

## Plas-Pro

Contents	Code
Fascia Support	P0210B300

## Millboard Product Technical Sheet DuoSpan™ 51mm Joist & DuoLift™ Joist Supports

