

LiteDeck is the highest performing and most popular decking system in the world of demanding world of touring productions. Tried and tested around the world, it is a lightweight yet robust staging solution that can be relied upon to perform.



Basement Jaxx 2006

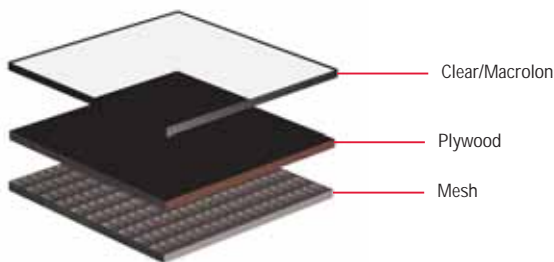
Structurally Approved

LiteDeck system is designed to provide a 5kn/m² uniform load rating in all configurations, when used in compliance with our assembly guide lines. Only genuine Litestructures components should be used, and full design calculations and assembly layouts are available on request.



Top Options

LiteDeck is completed by the addition of a variety of options for the top board surface. Standard, and by far the most popular finish, is robust 19mm plywood painted matt black, which is connected, as with all tops, by a set of bolts which allow removal, maintenance and replacement over the life of the deck. For more elaborate applications, LiteDeck is also available with clear macrolon tops to allow the transmission of lights from the under stage, or open aluminium mesh tops, to facilitate the use of pyrotechnics or smoke effects.



Description	Technical	Code
Macrolon Top	18mm Hardened Polycarbonate	Standard deck code followed by Mac
Mesh Top*	25mm Aluminium Grillage Mesh	Standard deck code followed by Mesh

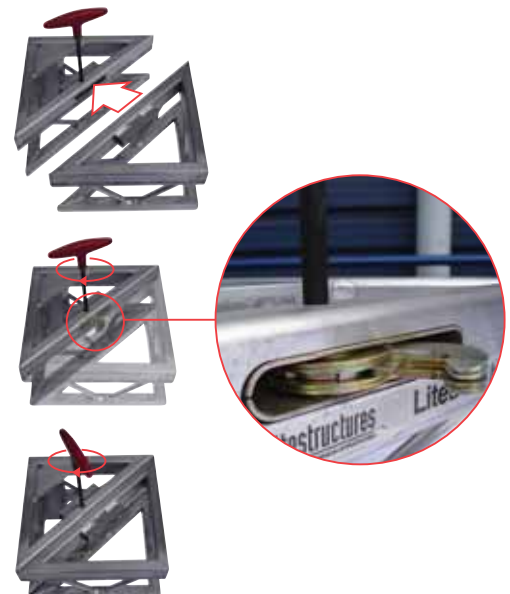
* Please note, special legs (6mm shorter) are required with this top configuration.

Spaceframe Construction

The key to the impressive touring performance of LiteDeck is the spaceframe aluminium construction. Manufactured from high strength 6082T6 aluminium section, the frame utilises the same technology as our trussing systems, with regular diagonal braces to transfer loads to the outer edges of the structure. Each aluminium extrusion is uniquely developed for optimised function, providing strength where it is needed without excess weight, and all edges are thoughtfully rounded for easy manual handling while on tour. Clever details, such as recess grooves for fixing skirts, and reinforced corner pockets, complete the package.

TopLok System

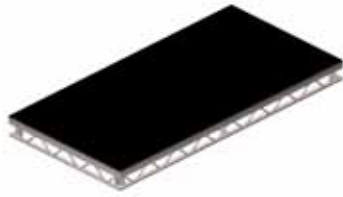
Introduced specifically in response to feedback from touring productions, the optional TopLok system offers time savings, and hence crew and cost benefits, in the assembly of any stage configuration. Utilising an integrated claw catch design, decks can be joined from above with the single turn of an allen key, ensuring the fastest possible build and strike times.



Shapes and Sizes

The LiteDeck system is available in a wide range of shapes and sizes, allowing hundreds of stage configurations to be created from a relatively narrow stock of standard components. LiteDeck is also available in either imperial or metric measurements, ensuring compatibility with structural formats across the world.

*LiteDeck weights are based upon standard units, without TopLok and with the inclusion of 19mm plywood tops. Other configurations will differ in weight.



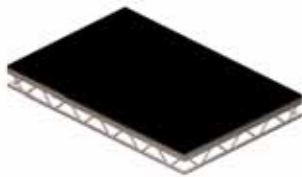
Size	Code	TopLok Code	Weight*
4' x 2'	D42S	D42TL	17.00kg
8' x 4'	D84S	D84TL	49.00kg
2m x 1m	D21S	D21TL	36.00kg



Size	Code	TopLok Code	Weight*
4' x 4'	D44S	D44TL	27.50kg
1m x 1m	D11S	D11TL	21.00kg



Size	Code	TopLok Code	Weight*
4' x 4'	D44SRA	D44TRA	19.50kg
1m x 1m	D11SRA	D11TRA	14.50kg



Size	Code	TopLok Code	Weight*
6' x 4'	D64S	D64TL	33.50kg



Size	Code	TopLok Code	Weight*
4' x 4'	D44SIQ	N/A	13.50kg
1m x 1m	D11SIQ	N/A	10.00kg



Size	Code	TopLok Code	Weight*
4' x 4'	D44SQ	D44TQ	27.00kg
1m x 1m	D11SQ	D11TQ	21.00kg



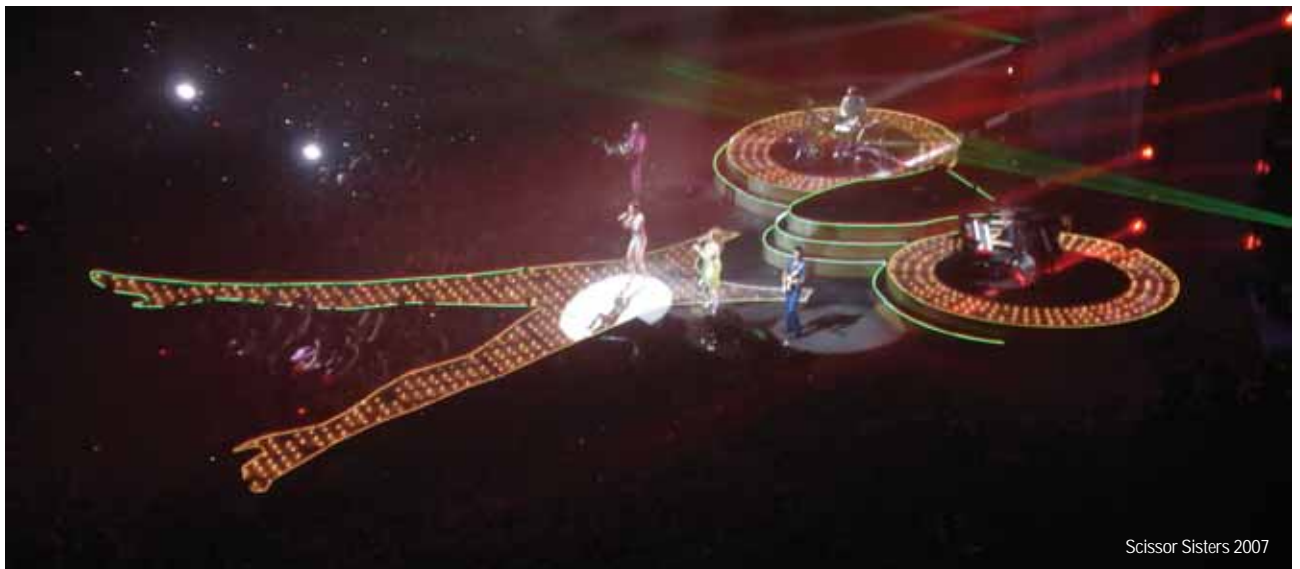
Size	Code	TopLok Code	Weight*
8' x 2'	D82S	D82TL	36.00kg
2m x 0.5m	D25S	D25TL	20.00kg



Circular Decks:
Available on request.



Semi Circular Decks:
Available on request.



52 LiteDeck Leg System

The beauty of the LiteDeck range lies in the simplicity of the leg system - a huge range of heights can be created quickly, easily and safely. Up to 950mm stage height, the system uses simple scaffold tube legs (see the red section below), whilst above this height the LegFrame system provides additional rigidity, reinforced as it is by two clamp-on braces (see the blue section below). The heights of the system are derived from building standard regulations, and as such all step units fit directly on to standard stage heights whilst complying with legislative requirements for typical performance and exhibition venues.

LiteDeck LegFrame System (For stages exceeding 950mm in Height)									LiteDeck Leg System (For stages upto 950mm in Height)					
	2470mm	2280mm	2090mm	1900mm	1710mm	1520mm	1330mm	1140mm	950mm	760mm	570mm	380mm	190mm	
	13 Steps	12 Steps	11 Steps	10 Steps	9 Steps	8 Steps	7 Steps	6 Steps	5 Steps	4 Steps	3 Steps	2 Steps	1 Step	
Stage Height:	2470mm	2280mm	2090mm	1900mm	1710mm	1520mm	1330mm	1140mm	950mm	760mm	570mm	380mm	190mm	
Leg Height:	2445mm	2255mm	2065mm	1875mm	1685mm	1495mm	1305mm	1115mm	925mm	735mm	545mm	355mm	165mm	
Step No:	13	12	11	10	9	8	7	6	5	4	3	2	1	
Step Unit Code:	DSUM13	DSUM12	DSUM11	DSUM10	DSUM9	DSUM8	DSUM7	DSUM6	DSUM5	DSUM4	DSUM3	DSUM2	N/A	

LiteDeck LegFrame System



LiteStructures have strived to develop the fastest and safest leg frame system on the market, for the construction of stages up to a massive 2470mm in height. Using an all aluminium tubular construction, in combination with a clamp-on brace system, LiteDeck LegFrame systems are strong, light and very quick to build, whilst being compatible with standard stage heights and step units.

Leg Frame Coding System:

LDL	4F	Height
↑	↑	↑
LiteDeck	4F: 4 feet wide or 1m:1 metre wide	Height in mms

Brace Coding System:

LD	COB	Length
↑	↑	↑
LiteDeck Leg	COB: Clamp on Brace	Length in mms

LiteDeck Leg System

LiteDeck is designed around a universal leg system, constructed from standard 48mm x 4mm round section aluminium tube. All LiteDeck legs are constructed from high grade 6082T6 tube, and are supplied cut to length, with an optional rubber end cap to protect against the damaging of delicate floor surfaces.

Leg Coding System:

LDL	Height
↑	↑
LiteDeck Leg	Height in mms

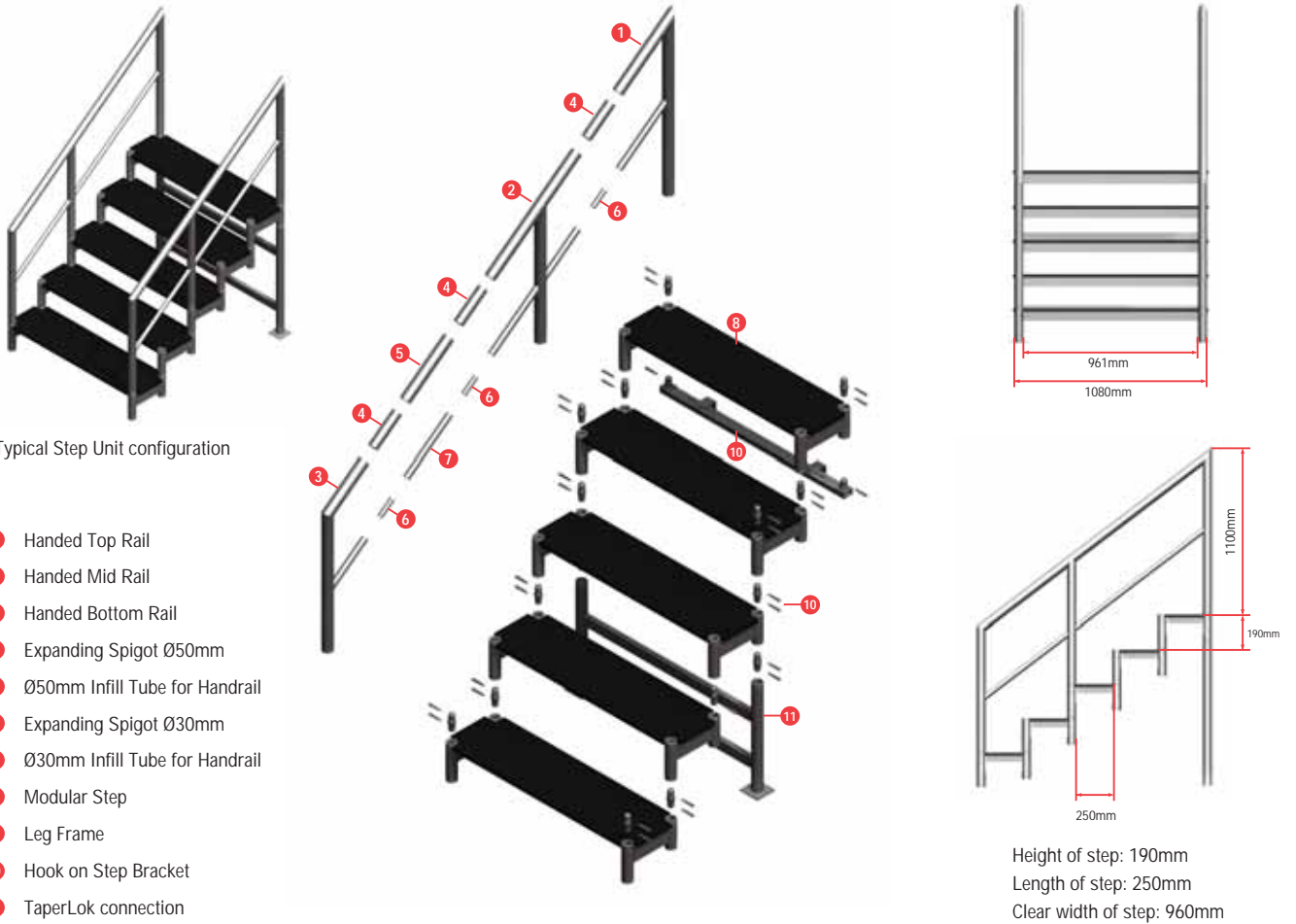
The table below demonstrates the required Leg Frame and Brace detail for each deck shape and size

Diagram	Size	Leg Frame Code	Quantity	Brace Code	Quantity
	8' x 4'	LDL/4F/Height	2	LDCOB8	2
	6' x 4'	LDL/4F/Height	2	LDCOB6	2
	8' x 2'	LDL/2F/Height	2	LDCOB8	2
	4' x 2'	LDL/2F/Height	2	LDCOB4	2
	2m x 1m	LDL/1M/Height	2	LDCOB2M	2
	2m x 0.5m	LDL/05M/Height	2	LDCOB2M	2
	1m x 0.5m	LDL/05M/Height	2	LDCOB1M	2
	4' x 4'	LDL/4F/Height	2	LDCOB4	2
	1m x 1m	LDL/1M/Height	2	LDCOB1M	2
	4' x 4'	LDL/4F/Height	1 (+ 1 Leg)	LDCOB4	1
	1m x 1m	LDL/1M/Height	1 (+ 1 Leg)	LDCOB1M	1
	4' x 4'	LDL/4F/Height	1 (+ 1 Leg)	LDCOB4	1
	1m x 1m	LDL/1M/Height	1 (+ 1 Leg)	LDCOB1M	1
	4' x 4'	LDL/4F/Height	1 (+ 2 Leg)	LDCOB4	1
	1m x 1m	LDL/1M/Height	1 (+ 2 Leg)	LDCOB1M	1

Diagram	Size	Quantity
	8' x 4'	4
	6' x 4'	4
	8' x 2'	4
	2m x 1m	4
	4' x 4'	4
	1m x 1m	4
	4' x 4'	3
	1m x 1m	3
	4' x 4'	3
	1m x 1m	3
	4' x 4'	4
	1m x 1m	4

LiteDeck Modular Step Unit 53 |

The LiteDeck Modular Step System is designed specifically to offer the greatest flexibility from the smallest number of standard components. In this way, rental companies, event organisers and productions teams can stagger investment in the system, whilst ensuring that they are able to offer step configurations to suit every eventuality.



Typical Step Unit configuration

- ❶ Handed Top Rail
- ❷ Handed Mid Rail
- ❸ Handed Bottom Rail
- ❹ Expanding Spigot Ø50mm
- ❺ Ø50mm Infill Tube for Handrail
- ❻ Expanding Spigot Ø30mm
- ❼ Ø30mm Infill Tube for Handrail
- ❽ Modular Step
- ❾ Leg Frame
- ❿ Hook on Step Bracket
- ⓫ TaperLok connection

Height of step: 190mm
 Length of step: 250mm
 Clear width of step: 960mm

		Step Units												
Code	Components	2 Step	3 Step	4 Step	5 Step	6 Step	7 Step	8 Step	9 Step	10 Step	11 Step	12 Step	13 Step	
DMSUM 1	Modular Steps	2	3	4	5	6	7	8	9	10	11	12	13	
DMHB	Handed Bottom Rails	2	2	2	2	2	2	2	2	2	2	2	2	
DMHM	Handed Mid Rails			2	2	2	2	2	2	2	2	2	2	
DMHT	Handed Top Rails	2	2	2	2	2	2	2	2	2	2	2	2	
30FILL314	314mm Ø30mm infill tube for Handrail		2		2	4	2							
30FILL628	628mm Ø30mm infill tube for Handrail						2	4	2					
30FILL942	942mm Ø30mm infill tube for Handrail								2	4	2			
30FILL1256	1256mm Ø30mm infill tube for Handrail										2	4	2	
30FILL1570	1570mm Ø30mm infill tube for Handrail												2	
50FILL314	314mm Ø50mm infill tube for Handrail		2		2	4	2							
50FILL628	628mm Ø50mm infill tube for Handrail						2	4	2					
50FILL942	942mm Ø50mm infill tube for Handrail								2	4	2			
50FILL1256	1256mm Ø50mm infill tube for Handrail										2	4	2	
50FILL1570	1570mm Ø50mm infill tube for Handrail												2	
MLF424	Leg Frame 424mm			1	1	1	1	1	1	1	1	1	1	
MLF994	Leg Frame 994mm						1	1	1	1	1	1	1	
MLF1564	Leg Frame 1564mm									1	1	1	1	
MLF2134	Leg Frame 2134mm												1	
DMH0	Hook On Step Bracket	1	1	1	1	1	1	1	1	1	1	1	1	
SP/AES	Expanding Spigot Ø30mm	2	4	4	6	8	8	8	8	8	8	8	8	
AO/AES	Expanding Spigot Ø50mm	2	4	4	6	8	8	8	8	8	8	8	8	
LP1/ACP	TaperLok Connection Set*	6	8	14	16	18	22	24	26	30	32	34	38	

Code	DSUM2	DSUM3	DSUM4	DSUM5	DSUM6	DSUM7	DSUM8	DSUM9	DSUM10	DSUM11	DSUM12	DSUM13
Stage Height (mm)	380	570	760	950	1140	1330	1520	1710	1900	2090	2280	2470

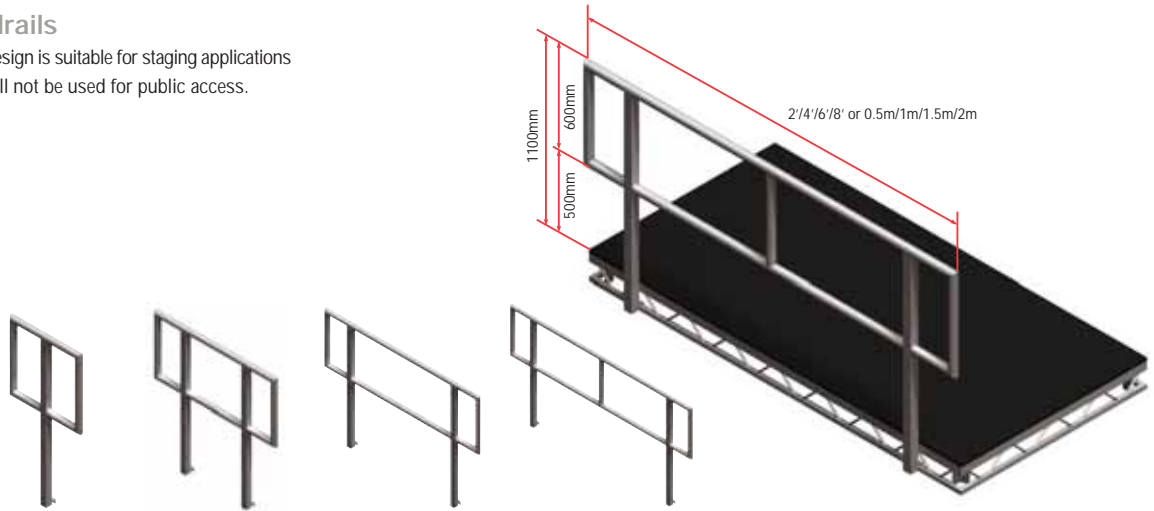
* Connection Set consists of: 1 Conical Spigot, 2 Taper Pins and 2 R Clips

54 LiteDeck Handrails

Handrails are a key ingredient in creating safe and useable working platforms. All LiteDeck handrail products are constructed from 6082T6 aluminium section, and are designed to bolt, quickly and securely, to specific mounting points located on the side of each deck. LiteDeck handrails are available in two configurations, dependent upon the application and therefore the required legislative conformity.

Open Handrails

This lightweight design is suitable for staging applications where the area will not be used for public access.

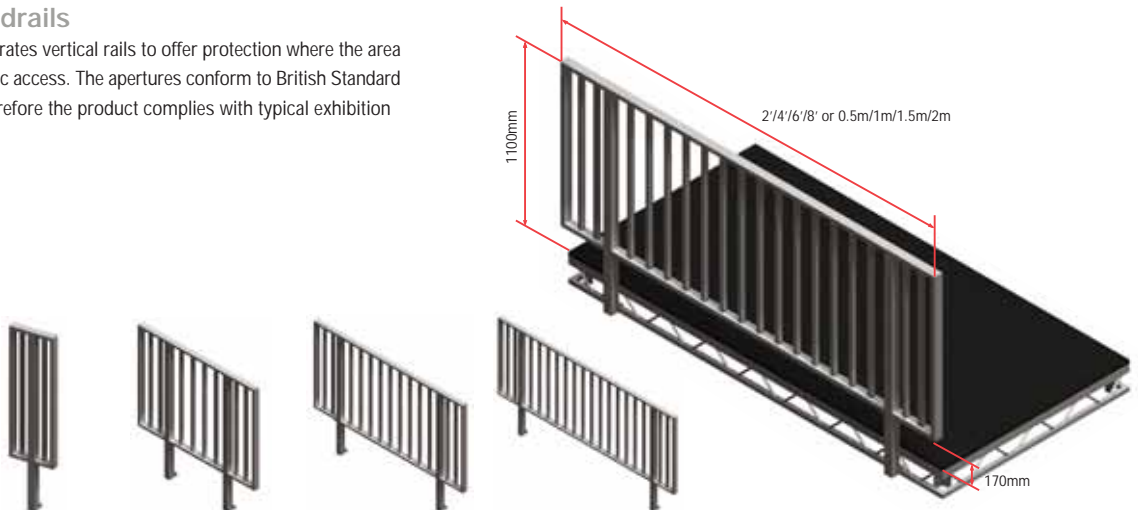


Imperial	2' Rail	4' Rail	6' Rail	8' Rail
Length	2'	4'	6'	8'
Weight	3.5kg	6.4kg	7.2kg	8.4kg
Code	DHS2	DHS4	DHS6	DHS8

Metric	0.5m Rail	1m Rail	1.5m Rail	2m Rail
Length	500mm	1000mm	1500mm	2000mm
Weight	3.4kg	6.14kg	7.15kg	7.8kg
Code	DHSM05	DHSM10	DHSM15	DHSM20

Spoked Handrails

This design incorporates vertical rails to offer protection where the area will be open to public access. The apertures conform to British Standard regulations and therefore the product complies with typical exhibition hall stipulations.



Imperial	2' Rail	4' Rail	6' Rail	8' Rail
Length	2'	4'	6'	8'
Weight	6.2kg	12.3kg	15.3kg	18.6kg
Code	DHS2E	DHS4E	DHS6E	DHS8E

Metric	0.5m Rail	1m Rail	1.5m Rail	2m Rail
Length	500mm	1000mm	1500mm	2000mm
Weight	6.71kg	10.8kg	13.43kg	16.1kg
Code	DHSM05E	DHSM10E	DHSM15E	DHSM20E

The LiteDeck range is further enhanced by a range of accessories designed specifically to increase the speed and ease of build whilst maintaining the inherent safety aspect of any stage design. Many of these LiteDeck accessories have been developed on tour, and as such are both quick to use and extremely robust.



Description:
Space Coupler
Part No:
ACC40
Self Weight:
0.74kg

Space Coupler

The LiteDeck SpaceCoupler is designed specifically to fit between two adjacent deck legs and clamp them together. It can be used either as the primary deck to deck fixing at stage heights below 950mm (replacing bolting or TopLok), or as an additional fixing to brace together higher stage heights or tie in adjacent structures such as truss roof systems.



Leg Top

All aluminium and designed to retain a 5kN rating on all decks, LegTop 4 allows 4 coinciding decks to all be connected to just one leg frame. This is particularly useful in allowing a walk through configuration of LiteDeck rolling stages.

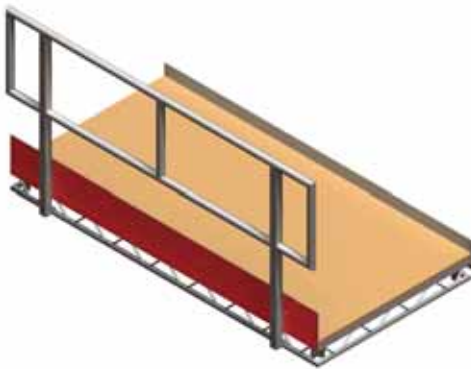
Description: Leg Top 4	Description: Leg Top 2	Description: Leg Top 1
Part No: DSEP4	Part No: DSEP2	Part No: DSEP1
Self Weight: 1.74kg	Self Weight: 1.2kg	Self Weight: 0.9kg



Description:
Screw Jack
Part No:
SJACK
Self Weight:
3.98kg

* Leg top fixtures add 220mm to the overall stage height for a given leg length

Toe Boards



Imperial

Description: Toe Board 2'	Description: Toe Board 4'	Description: Toe Board 6'	Description: Toe Board 8'
Part No: LTB2	Part No: LTB4	Part No: LTB6	Part No: LTB8
Self Weight: 2.1kg	Self Weight: 4.2kg	Self Weight: 6.3kg	Self Weight: 8.35kg

Metric

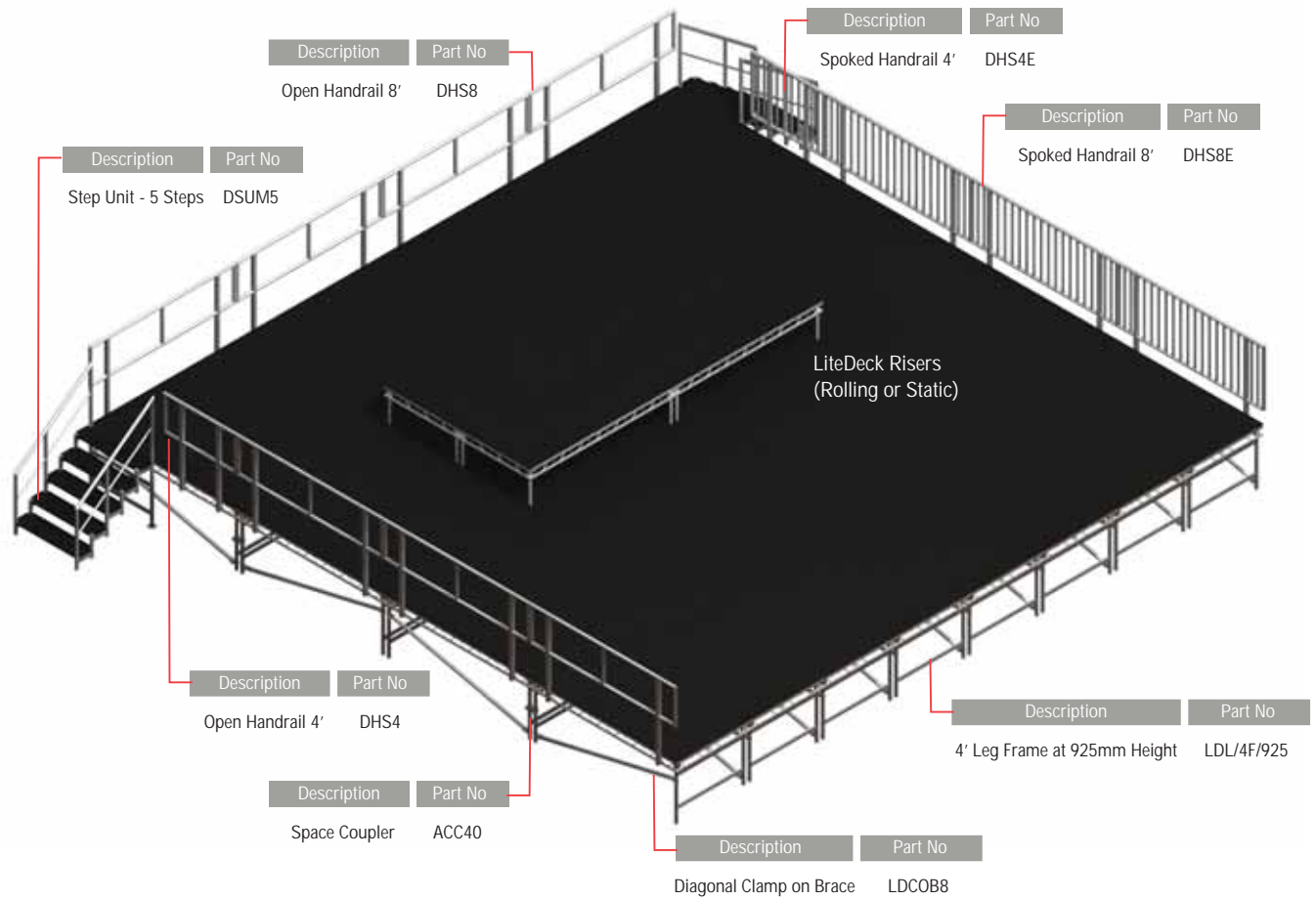
Description: Toe Board 0.5m	Description: Toe Board 1m	Description: Toe Board 2m	Description: Toe Board 3m
Part No: MLTB0.5	Part No: MLTB4	Part No: MLTB6	Part No: MLTB8
Self Weight: 1.71kg	Self Weight: 3.42kg	Self Weight: 6.85kg	Self Weight: 10.28kg



56 LiteDeck Typical Configuration

Static Stage

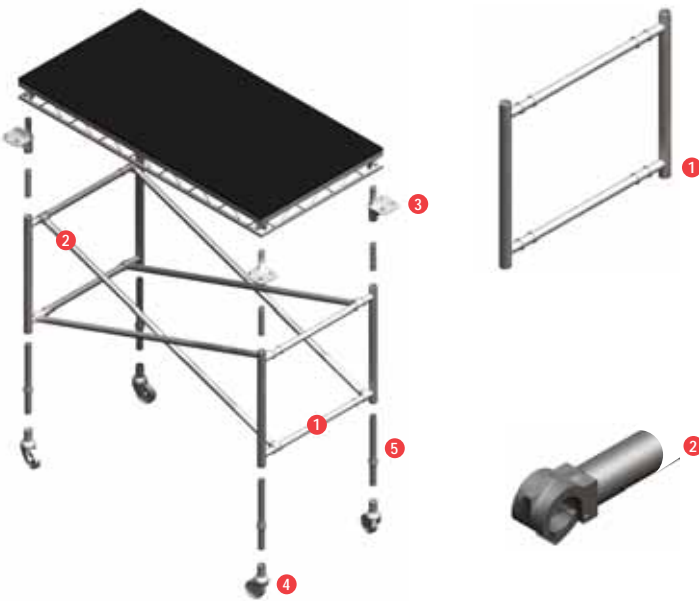
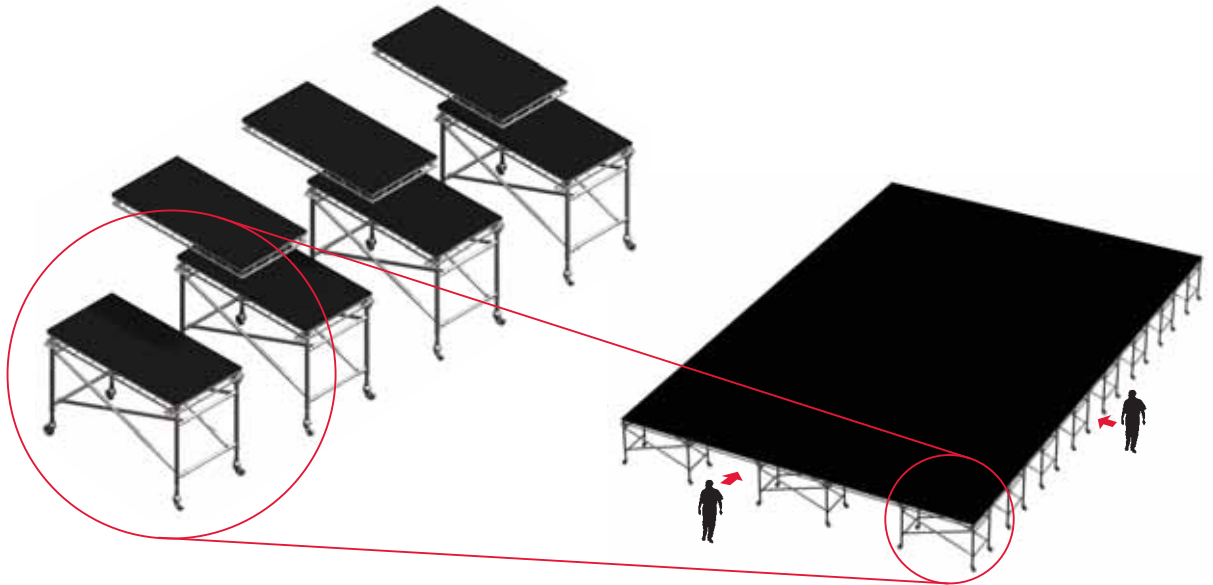
Many applications, such as Theatre, School or Conference stage sets, require a robust fixed configuration which may be left in place for weeks or even months. The image below shows the LiteDeck system in a typical fixed configuration, with a typical combination of handrails, legs and leg frames isolated for your information.



Photograph courtesy of 46664 Federation

Rolling Stage

LiteDeck was conceived from the start to provide the ultimate staging solution for touring performers and productions. As such, the Rolling Stage configuration allows unparalleled versatility by creating a platform that can be moved around as a production comes together, or as a venue requires. A further benefit is that the LiteDeck system can be set up to allow walk through configuration of the understage, both left to right and up to down stage. Shown below is a typical configuration of a LiteDeck rolling stage, with the key components isolated for your information.



Rolling Leg Frame

The RollingStage LegFrame System is unique and distinctly different to the standard LiteDeck LegFrame system. Optimised as it is for the touring environment, it utilises sturdy 63.5 mm main legs which accommodate aluminium screw jacks to give adjustable height, allowing the platforms to be levelled against existing venue stages. RollingStage Leg Frame sets are available in 4' and 1m widths, to suit 8'x4' and 4' x4' or 2m x 1m and 1m x 1m stage formats respectively.

Height	Code	Weight
4'	LDRF/4F	9.22kg
1m	LDRF/1M	8.60kg

Snap on Braces

A key element of the RollingStage LegFrame System is the Snap On Brace system, which greatly reduces stage assembly times. 2 of these braces are required per individual deck, and these locate quickly and securely against collars on the LegFrame, locking the assembly together. Rolling Stage Snap On braces are available in imperial and metric lengths, for

Size	Code	Weight
4'	LDSOB2440	1.78kg
8'	LDSOB1220	2.56kg
1m	LDSOB1000	1.74kg
2m	LDSOB2000	2.29kg



Description:
Leg Top 4
Part No:
DSEP4
Self Weight:
1.74kg
(See page 55 for more details).



Description:
Castor
Part No:
LC5
SWL:
1000kg
Self Weight:
2.94kg



Description:
Rolling Stage Screw Jack
Part No:
SJack1
Self Weight:
1.10kg