

D SERIES BEAMS

CATALOGUE





Foreword

DESSA offers efficient lightweight temporary roofing, encapsulation solutions, aluminium lattice girders and safety products. DESSA's unique and distinctive aluminium solutions are suitable for not only grandstands, stages and events but also public utility works, local authorities, government buildings, historic buildings, highways, bridges and industrial market sectors. Time proven on demanding and complex applications across varied climates throughout the UK, Canada, UAE, Australia and Europe, DESSA offer unrivalled span capabilities and alternative configurations. From a choice of roofing solutions and general purpose lattice girders providing unrivalled cost to strength ratio, to high capacity lattice girders complete with a dedicated bracing system, we provide the industry with an ever widening range of cost effective products along with extensive after sales support to the highest professional standards. At DESSA we develop innovative and practical solutions for the support, access and weather protection industries. All of our designs are technically proven and are registered with protected design rights meaning only DESSA can offer superior solutions through our products. Our senior management team at DESSA offer considerable experience in the fields of contracting, engineering, manufacture and customer service. Having introduced a number of class leading products into the UK market and we have worked closely with a number of key clients in developing bespoke solutions to their problems which we manufacture on an exclusive basis.

D Series Introduction

The D Series beams by DESSA are a range of aluminium lattice girders that offer users significant operational, time and cost benefits:

- Fully modular, proven over 25 years of continual use.
- Lightweight aluminium system.
- All beams are universal and can be configured to suit a variety of scaffold requirements.
- Different beam depth options (0.45m and 0.78m).
- Wide range of beam lengths available (from 0.5 to 6m).
- Rapid platform creation using steel decks.
- Rapid creation of mobile gantries.
- Erection does not require any tools.
- Parts connected using spring pins, rather than bolts, saving time and reducing quantity of components.
- Minimal number of different parts.
- Variety of support options.



Contents

1.0 Beams1

2.0 Optional Bracing4






3.0 Fixings5





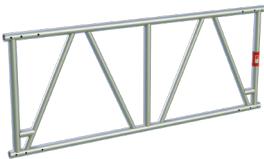
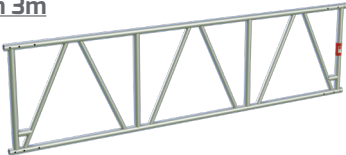
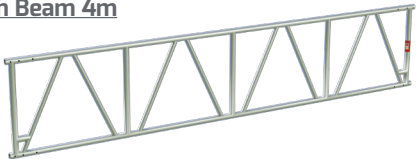
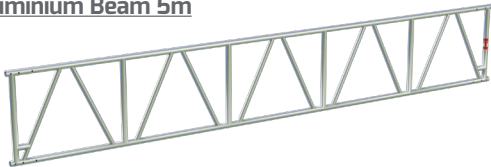
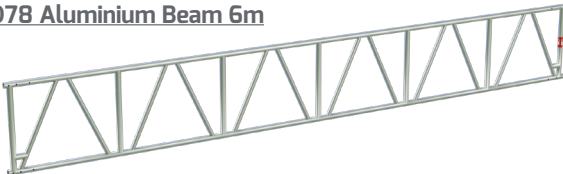

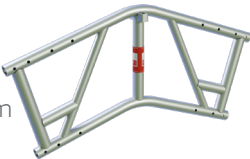


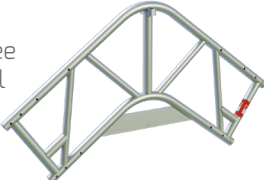
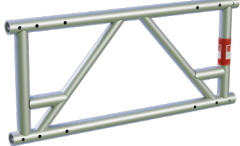
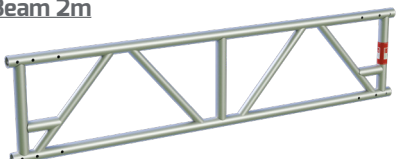
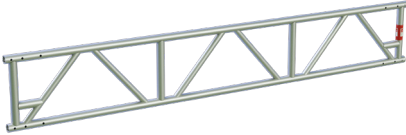
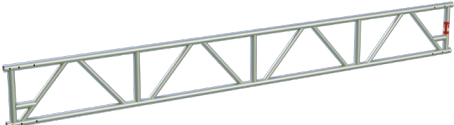
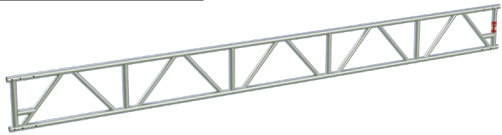
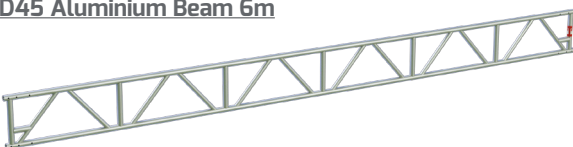
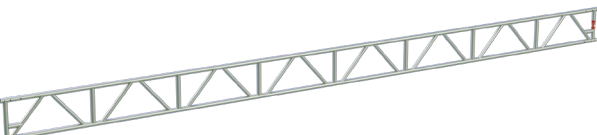

1.0 Beams

Main structural component for creation of beam spans, also suitable for everyday general purpose applications. The user friendly DESSA D78 beam range offers unrivalled cost to weight ratio and are very much at home in a heavy duty support scaffold. DESSA D45 beams are also available and offer a strong option as a usable site beam.

DESCRIPTION	PART No.	WEIGHT (kg)	DIM 1 (m)	DIM 2 (m)
D78 Eaves Beam with support bottom chord, 1m Beam designed to be positioned at the end of a roofing span, to provide a more aesthetically pleasing finish, enhanced weather proofing and structural capability. 	BA0218	9.63	1.01	0.96
D78 Eaves Beam with support bottom chord, 2m Beam designed to be positioned at the end of a roofing span, to provide a more aesthetically pleasing finish, enhanced weather proofing and structural capability. 	BA0318	18.59	2.01	0.96
D78 Eaves Beam 18 degrees Beam designed to be positioned at the end of a roofing span, to provide a more aesthetically pleasing finish and enhanced weather proofing. 	BA0118	9.20	0.96	0.78
D78 Ridge Beam 18 degrees Can be used singularly to form an 18 degree duo pitch roof or can be used in multiples to form perfect dome structures. 	BA0018	7.45	1.28	0.93
D78 Ridge Beam 36 degrees Can be used to form 36 degree duo pitched roofs to cover tall buildings. Can also be used at the eaves to form building structures and shelters. 	BA0036	12.00	1.69	1.17

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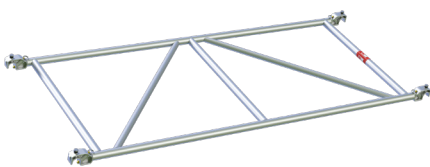



DESCRIPTION		PART No.	WEIGHT (kg)	DIM 1 (m)	DIM 2 (m)
D78 Aluminium Beam with support bottom chord, 1m Beam support compatible reinforced bottom chord.		BA0001	9.75	1.00	0.89
D78 Aluminium Beam 1m		BA1000	6.34	1.00	0.78
D78 Aluminium Beam 2m		BA2000	11.63	2.00	0.78
D78 Aluminium Beam 3m		BA3000	16.92	3.00	0.78
D78 Aluminium Beam 4m		BA4000	22.21	4.00	0.78
D78 Aluminium Beam 5m		BA5000	27.50	5.00	0.78
D78 Aluminium Beam 6m		BA6000	32.79	6.00	0.78
D45 Eaves Beam 18 degrees Beam designed to be positioned at the end of a roofing span, to provide a more aesthetically pleasing finish and enhanced weather proofing.		BB0118	3.48	0.63	0.45
D45 Ridge Beam 18 Degrees Can be used singularly to form an 18 degree duo pitch roof or can be used in multiples to form perfect dome structures.		BB0018	6.40	1.28	0.62

DESCRIPTION	PART No.	WEIGHT (kg)	DIM 1 (m)	DIM 2 (m)
D45 Ridge Beam 36 Degrees Can be used to form 36 degree duo pitched roofs to cover tall buildings. Can also be used at the eaves to form building structures and shelters. 	BB0036	9.90	1.69	0.91
D45 Aluminium Beam 1m 	BB1000	5.50	1.00	0.45
D45 Aluminium Beam 2m 	BB2000	9.52	2.00	0.45
D45 Aluminium Beam 3m 	BB3000	14.08	3.00	0.45
D45 Aluminium Beam 4m 	BB4000	18.30	4.00	0.45
D45 Aluminium Beam 5m 	BB5000	23.21	5.00	0.45
D45 Aluminium Beam 6m 	BB6000	28.60	6.00	0.45
D45 Aluminium Beam 8m 	BB8000	36.24	8.00	0.45
Beam Spigot 6HS Used to connect all D78 & D45 beams together. Simply secured in place using quick release pins AF0001 or M12 bolts AF0012. 	B50001	1.49	0.50	ø 38.1mm



2.0 Optional Bracing

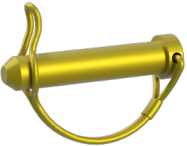
For spacing of beam lines and ensuring structural stability. DESSA's innovative bracing system allows for a lighter and faster bracing offering compared to traditional tube and fittings. Can be used in structural beam applications.

DESCRIPTION	PART No.	WEIGHT (kg)	DIM 1 (m)	DIM 2 (m)
UNI Frame Fitted to the D Series beam chords and to ASTERIX HD beam posts to provide stiffness and structural integrity, 	UK1000 UK1088 UK1500 UK1572 UK2000 UK2072 UK2500 UK2572 UK3000 UK3072	7.80 8.00 8.94 9.09 11.08 11.22 12.30 12.47 13.61 13.76	1.00 1.09 1.50 1.57 2.00 2.07 2.50 2.57 3.00 3.07	1.00
UNI Horizontal Brace  <p>Single horizontal brace used for top and bottom chord lacing and connection of infill bays.</p>	UH0300 UH0390 UH1000 UH1088 UH1500 UH1572 UH2000 UH2072 UH2500 UH2572 UH3000 UH3072	1.41 1.47 2.14 2.21 2.64 2.71 3.15 3.22 3.66 3.73 4.17 4.24	0.30 0.39 1.00 1.09 1.50 1.57 2.00 2.07 2.50 2.57 3.00 3.07	0.10
UNI Diagonal Brace D78  <p>Connects to the top and bottom chords of adjacent beam lines to ensure lateral stability.</p>	UD1669 UD1734 UD2130 UD2198 UD2605 UD2674 UD3088 UD3158	2.65 2.75 3.34 3.44 3.85 3.94 4.36 4.44	1.50 1.57 2.00 2.07 2.50 2.57 3.00 3.07	0.73
UNI Diagonal Brace D45  <p>Connects to the top and bottom chords of adjacent beam lines to ensure lateral stability.</p>	UD1552 UD1622 UD2040 UD2110 UD2532 UD2603 UD3027 UD3098	2.46 2.57 3.24 3.35 3.74 3.85 4.27 4.37	1.50 1.57 2.00 2.07 2.50 2.57 3.00 3.07	0.40



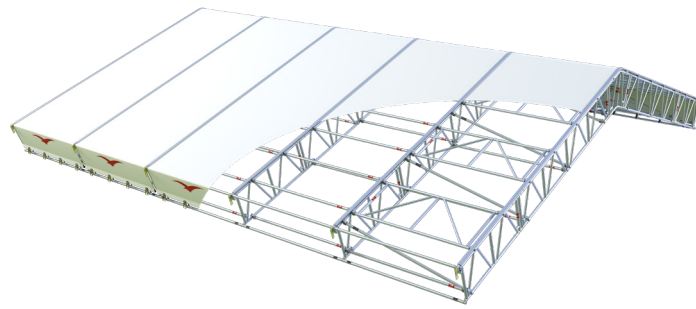
3.0 Fixings

Essential components for fastening scaffold elements and structural members.

DESCRIPTION	PART No	WEIGHT (kg)	DIM 1 (m)	DIM 2 (m)
Quick Release Pin M12 x 60 for round tube A direct replacement for a nut and bolt, enables rapid assembly of beam spans. 	AF0001	0.07	66mm	ø 12mm
Hex Bolt BZP G8.8 Steel M12x65 For connection of BS0001 spigots as an alternative to quick release pin AF0001. 	AF0012	0.06	72.5mm	ø 12mm
Hex Lock Nut BZP G8.8 Steel M12 For use in conjunction with M12 bolts. 	AF0021	0.05	14.0mm	ø 12mm

Other products from DESSA include:

- TEMPORARY ROOFING



- RANGER™ STAIR



- SAFETY PRODUCTS



- MINI CATCH NET FAN





