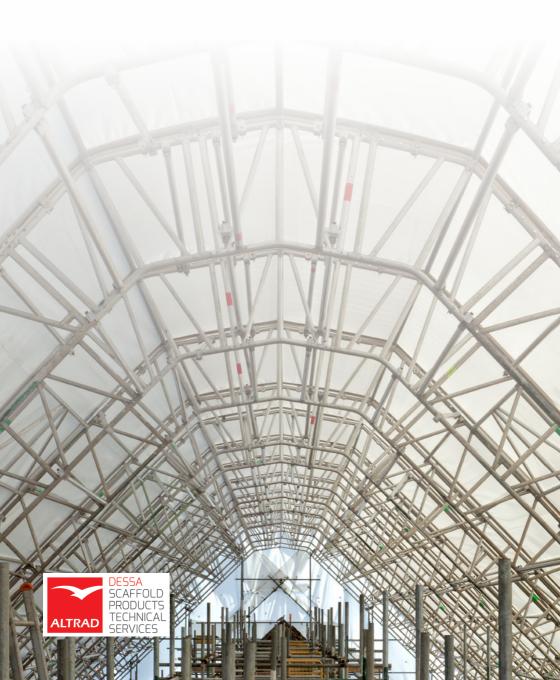
# **DESSA**Products & Services



## **Introducing DESSA**

DESSA (Design, Engineer, Supply, Safety and Access) was founded in 2010 by a team of leading UK scaffolding experts. DESSA has grown to be a major supplier of temporary roofing and cladding systems, aluminium lattice girders, scaffold accessories, site stairways and safety products. DESSA became part of the Altrad Group of Companies in 2015 and continues to develop exciting, innovative and cost effective solutions. Offering design support services, DESSA has become the one-stop solution provider to contractors at all levels.

#### Why choose DESSA?

Customer focus and industry experience enables DESSA to offer a high level of customer service and offer a full range of technical, product and site support services. All key staff have a proven track record of product development and temporary works industry experience.

#### Value

DESSA products are continually developed to ensure the best value and user experience. All products provide excellent safety features with the added benefit of labour savings and quality in manufacturing. By design, DESSA products are manufactured in a TUV approved QA environment and are fully traceable to source. All DESSA products are carefully made to avoid problems which may arise from the aluminium welding process – heat affected zones are minimised and bolt holes are placed to avoid them. All products are tested for accuracy after manufacture to ensure unrivalled consistency.

### **Availability**

DESSA beams are manufactured in regular batches and large stocks are held for supply, usually available for same day / next day dispatch. Based in Cambridgeshire UK, DESSA Technical Bureau and Distribution Centre has ideal proximity to the A1/A14/M1 links. DESSA is well placed to respond to your logistical demands.

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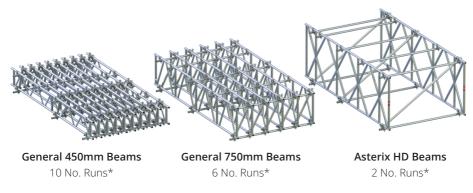
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## 1.0 Aluminum Beams

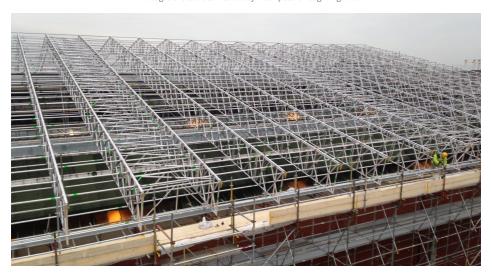
#### 1.1 Asterix/Asterix HD

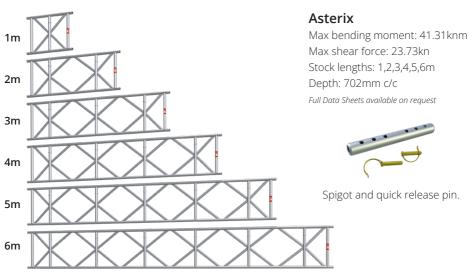
The ASTERIX beam range are manufactured to the stringent requirements of EN1090 ensuring every beam can be traced individually. These beams offer unrivalled strength capability and are compatible with tube and fittings and/or modular system scaffolds. Beams are joined using steel spigots and quick release pins. 18° and 36° ridge beams as well as bolt-free lacing and bracing kits are available from stock.

#### · Same Job - Less Beams!

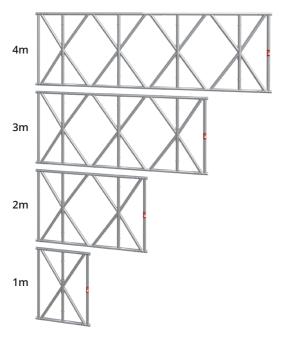


\*All designs are to be carried out by a competent Design Engineer.





Bolt-free lacing and bracing kit available.



Bolt-free lacing and bracing kit available.

#### **Asterix HD**

Max bending moment: 102.20knm Max shear force: 32.60kn Stock lengths: 0.55,1,2,3,4m Depth:1280mm c/c

Full Data Sheets available on request



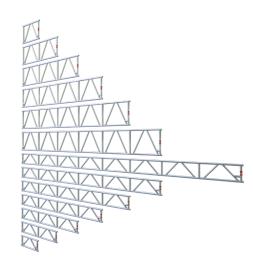
Spigot and quick release pin.

#### 1.2 D78 & D45 Beams

The DESSA unit beam series offer compatibility for use with traditional scaffold structures and temporary roofs. They combine high strength with a low weight and cost.

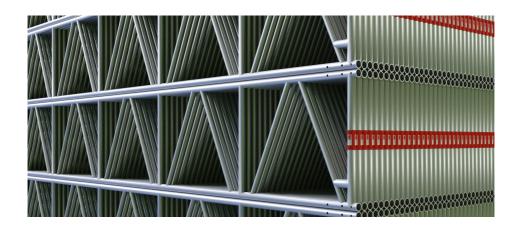
The D78 beams are available in 780mm depth and in 1m length increments from 1m to 6m.

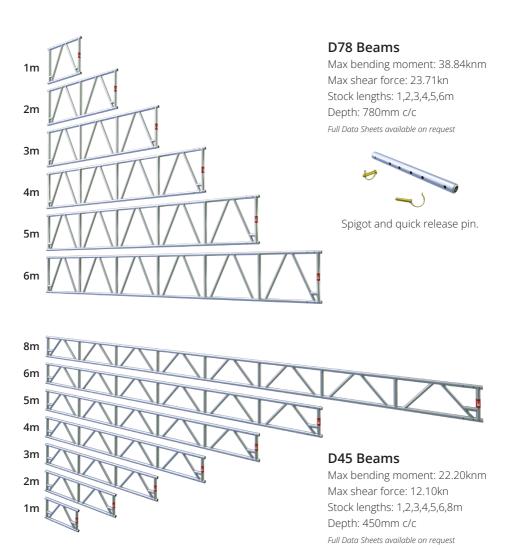
The D45 beams are available in 450mm depth and in lengths of 1, 2, 3, 4, 5, 6 and 8m.



The top and bottom chords of the beams are manufactured in traditional scaffold tube size, allowing easy connection of traditional scaffold couplers. Vertical posts are provided at each end of the beam and at intermediate locations. These unit beams offer an economical solution for the creation of beam spans, crash decks and medium sized temporary roof structures.

Joined using spigots and quick release pins.





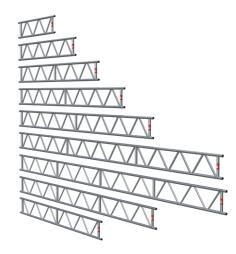
Bolt-free lacing and bracing kit available.

#### 1.3 L45 & S45 Beams

The DESSA unit beam series offer compatibility for use with traditional scaffold structures and temporary roofs. They combine high strength with a low weight and cost.

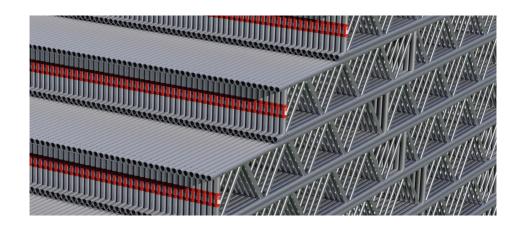
The L45 beams are available in 450mm depth and in lengths of 2, 3, 4, 5, 6 and 8m.

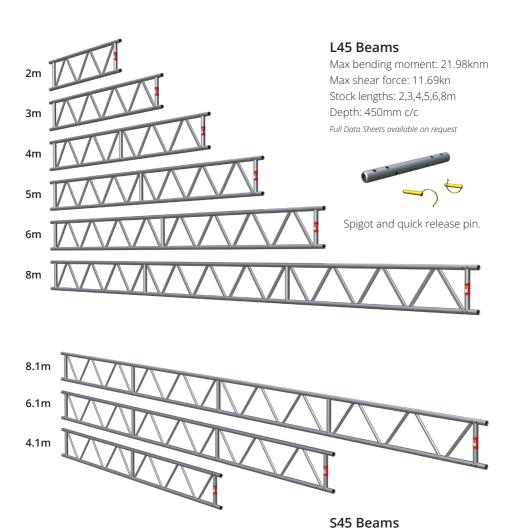
The S45 beams are available in 450mm depth and in 2m length increments from 4.1m to 8.1m.



The top and bottom chords of the beams are manufactured in traditional scaffold tube size, allowing easy connection of traditional scaffold couplers. Vertical posts are provided at each end of the beam and at intermediate locations. These unit beams offer an economical solution for the creation of beam spans, crash decks and medium sized temporary roof structures.

Joined using spigots and quick release pins.





Max bending moment: 20.19knm Max shear force: 11.66kn Stock lengths: 4.1,6.1,8.1m Depth: 450mm c/c

Full Data Sheets available on request

## 2.0 Weather Protection

DESSA weather protection systems protect your site and equipment from the effects of weather and site problems such as noise, pollution and debris.

DESSA weather protection solutions are lightweight modular temporary roofing systems that can be erected on a range of general purpose scaffolding beams, available in 40cm, 70cm, 78cm and 133cm depths and 1.5m, 1.57m, 2.0m, 2.07m, 2.5m, 2.57m, 3.0m, 3.07m bay widths.

DESSA weather protection systems utilise a high capacity aluminium structure and PVC sheeting depths, offering unrivalled span versus cost solution for your temporary roofing requirements. Components are multi-purpose and are fully compatible with tube and fittings and all modular system scaffolds in a variety of applications.

#### More than just a roof...

Beams and bracing elements can be used to construct bird cages and fully decked platform areas, offering large savings on equipment and labour. With the simple addition of braces to the bottom chord, tracking and sheets can easily be installed enabling full encapsulation offering maximum protection.



#### **Other Applications**

DESSA weather protection systems offer an innovative solution to many requirements from freestanding shelters, temporary buildings, railways, building encapsulations, site protection, archaelogical digs to music concerts and events.



#### Features & Benefits

- · Use of general purpose scaffolding beams
- Multiple pitch configurations
- · Durable PVC sheeting firmly secured in independent Keder tracking
- · Safe erection option using roll out method
- · Split or staggered bays easily achievable
- · Keder tracks slide into position, giving safe and speedy assembly
- Unique alloy tracking spigot improves joint stability between tracks
- Individual bays easily opened allowing access for craned materials

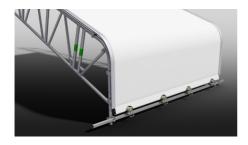
A proven range of systems with over 20 years of continual use in extreme climatic conditions. All ranges are lightweight and designed to be erected without the use of a crane. Multi-purpose weatherproofing fits roof and scaffolds alike and DESSA temporary roofing can be erected as mono pitch, duo pitch or vaulted configurations. Unique boltless technology developed by DESSA means entire roofs can be erected without the use of tools. DESSA roofing is suitable for use with any scaffold product and maximum stock utilisation is ensured as DESSA roof systems employ universal beams that can be used for everyday scaffolding tasks.

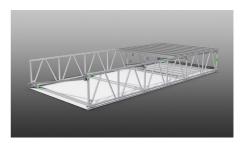
#### **Availability**

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#### **Built-In Safety Features**

- · Minimal parts
- · Build without tools
- · Alternative erection methods
- · Lightweight
- · Easy to handle
- · Comprehensive User Guide
- · Sheeting from underneath





#### 2.1 UNI Roof

#### **Features & Benefits**

- · Multiple coverage configurations
- · Durable PVC sheeting
- · Maximum stock utilisation
- · Split or staggered bays
- · Safe installation of Keder tracks
- · Unique alloy tracking spigot
- DeepFlow™
- · 18 degree pitch
- · Opening of roof

- · Fully modular roofing system
- · Fits on any scaffolding product 48.3mm
- · Minimal number of different parts
- · Multi purpose beams
- · Clear spans up to 40m
- · Range of beam sizes from 1m to 6m
- · Compact ridge beam
- · 40cm to 73cm beam depths available
- · Can be assembled without tools



#### **Applications**

- · Freestanding shelters
- · Temporary buildings
- Railways
- · Building encapsulations
- Site protection
- · Archaeological digs
- · Music concerts and events



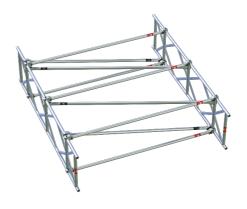
#### **Built-In Safety Features**

- · Minimal number of different parts
- · Integrated fixings
- · Easy to handle
- · Light in weight
- · Sheeting from underneath
- Full documentation

#### 2.2 Asterix Roof

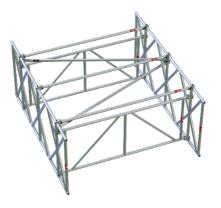
#### Features & Benefits

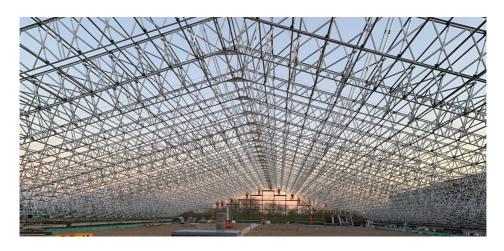
- Allows optional elimination of UNI frames through use of snap on plan braces
- All bracing and tracking elements common with UNI Roof
- · 70cm beam depth



#### 2.3 Asterix HD Roof

- Allows optional elimination of UNI frames through use of snap on plan braces
- · Uses UNI Frames on uprights
- All bracing and tracking elements common with UNI Roof
- Additional top chord horizontals not required for spine beam applications
- · 128cm beam depth





## 3.0 Temporary Stairways

#### 3.1 Portable Stair

#### **DESSA Portable Stair**

The Portable Stair is specifically designed to provide quick and safe access in stairwells and any open voids. If you are in need of a flexible Temporary Stair Unit System, DESSA has the solution.

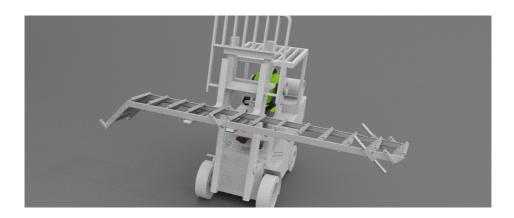
#### **HSE Compliant**

- · Exceeds all HSE Working at Height regulations
- · Conforms to BS EN 12811 and WAHR
- Tested to a load capacity of 150 kilos
- Profiled non slip surface to assist grip

## Simple and Fast Installation

- Produces greater operative productivity
- · Fast, effective movement of workforce
- · Easily moved round site and manhandled
- Narrow design of 600mm width
- Range of height adjustment (2684-2843mm)











#### **Features Include**

- Integrated forklift lifting brackets
- Quick release pins for securing the guardrails
- · Adjustable base support
- Integrated landing platform with brackets that make the installation easy and safe



## 3.2 Ranger™ Stair



#### One-Piece Articulating Aluminium Guardrail Unit

- Easy installation by locating into guardrail sockets
- Non-handed assembly avoids stock and installation confusion
- Two separate length modules to be used across all length ranges
- · Lightweight and beneficial in storage
- · Orientates along the same angle as stair assembly unit



#### Integrated Guardrail Socket Within Tread

- Avoids protruding elements on outer edge of stair, presenting a safer on site and storage / shipping option
- · Built-in anti-uplift clasp to ensure engagement of guardrail post
- Simple sprung mechanism for releasing guardrail



#### **Integrated Locking Mechanism Within Footplates**

- · Engaged to lock stair using a scaffold spanner
- Can be engaged from lower level of stair flight, on a safe working surface



#### **Multiple Top Tread Bracket Options**

- Scaffold tube hooks with built in anti-uplift sit flush with tube to allow scaffold boards to pass over
- Slab connector brackets can engage with solid slabs using bolts through pre-drilled holes



#### Flat Packing Functionality

- Allows for ease of storage / shipping / transportation
- Presents time, labour and cost saving options

Ranger™ Stair Operational Footprints (Floor Level To Top Tread)					
Stair Unit	Treads	Min Height (mm)	Max Height (mm)	Guardrail Requirement	Widths (mm)
RS0003	3	557	783	NONE	
RS0006	6	985	1457	2NO. RG0001	OVERALL = 812 TREAD = 720
RS0009	9	1412	2130	2NO. RG0002	CLEAR =547
RS0012	12	1840	2804	4NO. RG0001	00000000000000000000000000000000000000
RS0015	15	2267	3478	2NO. RG0001, 2NO. RG0002	
RS0018	18	2696	4152	4NO. RG0002	





Slab Connector (165mm Above Top Tread)



**Tube Connector** (110mm Above Top Tread)



Various Height Adjustment

## **4.0 Safety Products**

## 4.1 One-Up™ Safety Platform

An essential part of any scaffolder's toolkit, the safety platform allows the safe erection of the next lift. The OneUp™ is a fold-flat item for easy handling and has an integral ladder to suit system scaffold as well as traditional tube and fit scaffolding. The non-slip, light-weight platform can carry 175kg and should be used in conjunction with relevant PPE.

Technical Data				
Platform Dimensions	390mm x 570mm			
Permissible Load	175 kg			
Max Guardrail Height	1.02m			
Min Guardrail Height	0.96m			
OneUp™ Weight	6.2 kg			
Compliance	EN131 Ladders			



#### OneUp™ Features & Benefits

- · Simple and convenient all-in-one ladder and platform unit
- $\boldsymbol{\cdot}$  Can be utilised in multiple positions around scaffold
- Set once adjustable feet for system scaffolds and/or traditional scaffold
- Platform designed to allow tubes to slide down between the existing guardrail and platform, freeing the user's hand to ascend/descend
- · Lightweight only 6.2kg
- · Folds flat for easy handling
- · Non-slip deck, rungs and treads
- Spring claw latch, quick and safe installation without tools





- Sprung retaining hook
- Platform
- Folds flat with velcro strap
- · Safety/identify label
- · Hinge
- Non-slip
- · Ladder/rungs
- · Adjustable feet

## 4.2 Tube Lifting Device

#### Features & Benefits

- · Alleviates need to tie knots when lifting tubes
- · Provides positive fixing for lifting
- · Reduces risks associated with lifting
- · CE marked
- · Individually traced
- · Weld free



#### 4.3 Mini Catch Net Fan

#### Features & Benefits

- · Light duty (Class A) to EN12811-4
- · Lightweight
- · Lockable for transport
- · No tools needed for fitting
- · No loose parts
- · Fully tested
- Fits to 48 3mm scaffold tube



## 4.4 Lift Shaft Gates

- · All aluminium construction
- · Complies to EN 13374
- · Simple fixing through frame
- · Lockable barn style doors for access
- Side panel extension available in a range of sizes



## **5.0 Scaffolding Accessories**

#### 5.1 Shear Anchor

#### Features & Benefits

- · High capacity fixing
- Used for wall and ground anchors, edge protection, rakers, beam supports
- · Multiple bolt hole options
- · Rotating coupler fitting
- · Bolted coupler fitting



## 5.2 Adjustable Hop-Up Bracket

#### Features & Benefits

- 3.15kg all aluminium
- · Load Class 3 for up to 2.5m bays (3bd)
- Load Class 2 for 2.5-3.07m bays (3bd)
- · Secured using 2no. Class B swivel couplers



#### 5.3 Extension Bracket 5 Board

- · 10.2kg all aluminium
- · Load Class 3 for up to 2.5m bays
- · Load Class 2 for 2.5-3.07m bays
- · Secured using 3no. Class B swivel couplers



#### **5.4 Extendable Transoms**

#### Features & Benefits

- · High yield steel assembly
- · All integrated fittings
- Suitable for various configurations within tube and fitting scaffolds
- · Lockable with standard scaffold spanner
- · Integrated stop end for board retention



## 5.5 SafeSocket

- · Professional toolkit for UK scaffolders, boxed set
- · Unique 21mm socket and 5 accessories
- Enables accessories to be attached without removing socket from impact driver
- · 8mm hex head for timber screws
- 19mm hex head for concrete ring screws and foreign fittings
- · 22mm socket for European fittings
- Custom socket for eyebolts and band and plates
- Universal adaptor for any ½" socket



21mm Socket



1/2" Stud



Eye Bolt



8mm Hex



19mm Hex

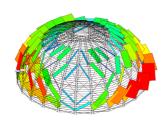


22mm Hex

## 6.0 Technical Services

Extensive industry experience at management level as well as within the design team places DESSA in an excellent position for its clients. DESSA offers a full design and check service covering scaffold projects, temporary roofing projects and bespoke product design. This service is backed up with site visits when required and not limited to DESSA products, other proprietary systems and temporary works designs can be also checked.





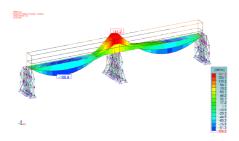
## At DESSA we take full advantage of state of the art engineering software:

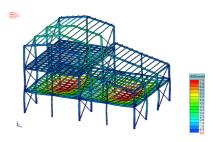
- Autodesk Product Design & Manufacturing Collection (AutoCad, AutoCad Mechanical, Inventor, 3ds Max Robot)
- · Graitec visual analysis software, full frame 3D
- Sketchup
- Adobe Creative Cloud (Photoshop, InDesign, Premiere Pro)
- Various analyses packages

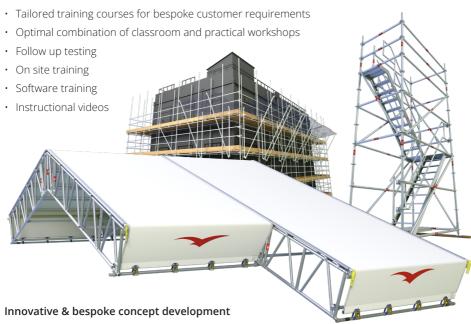
#### We are proud to offer:

- · 2D design drawing creation / submissions / checking
- · 3D visuals
- · Animations / Training videos
- 2D/3D Structural Frame Analysis
- Method Statements / Risk Assessments
- · Site visits / inspections / Approvals









- · Needs analysis
- · Fabrication drawings
- · 3D visuals
- 2D/3D Structural Frame Analysis complete with calculation reports
- Prototyping / Launch

- Full support for system scaffolds / lattice beams / access products
- · Compliance checking / testing
- Technical literature support / maintenance
- · Commercial / Technical proposals



