

# DESSA BROCHURE



# DESSA

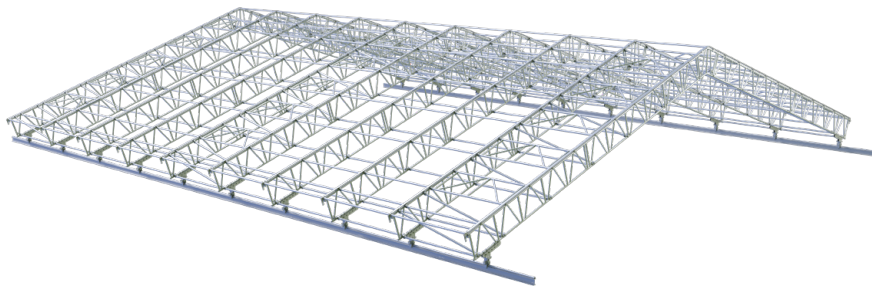
DESIGN

ENGINEER

SUPPLY

SAFETY

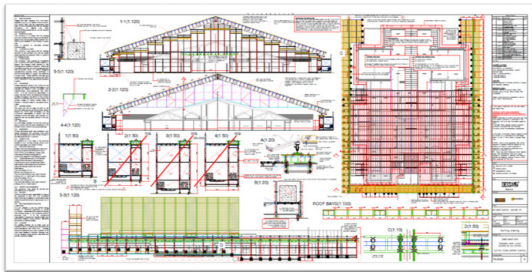
ACCESS



Temporary Roofing Systems

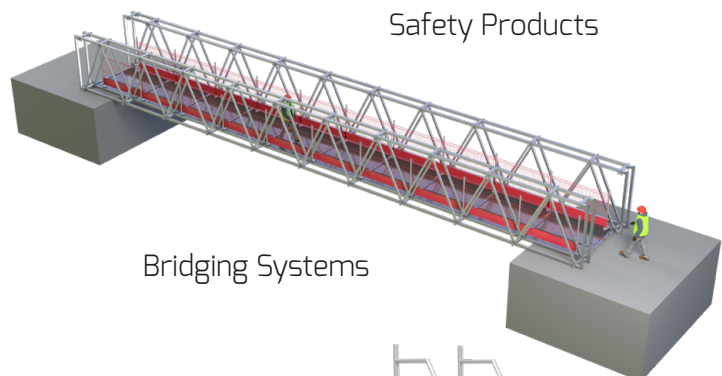


Safety Products

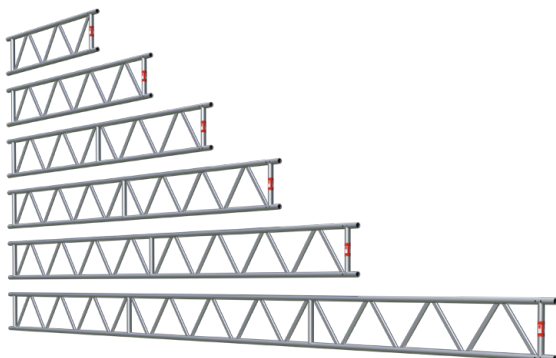


Engineering Services:

- Scaffold/Temporary Works Design
- Product Training
- Technical Support
- Bespoke Product Design



Bridging Systems



Aluminium Beams



Access Solutions

# 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.

## Contents

ASTERIX/ASTERIX HD.....	4
D78 AND D45 BEAMS .....	6
L45 AND S45 BEAMS.....	8
TEMPORARY ROOFING .....	10
PORTABLE STAIR.....	14
RANGER™ STAIR.....	16
ONE UP™ SAFETY PLATFORM .....	18
TECHNICAL SERVICES.....	19





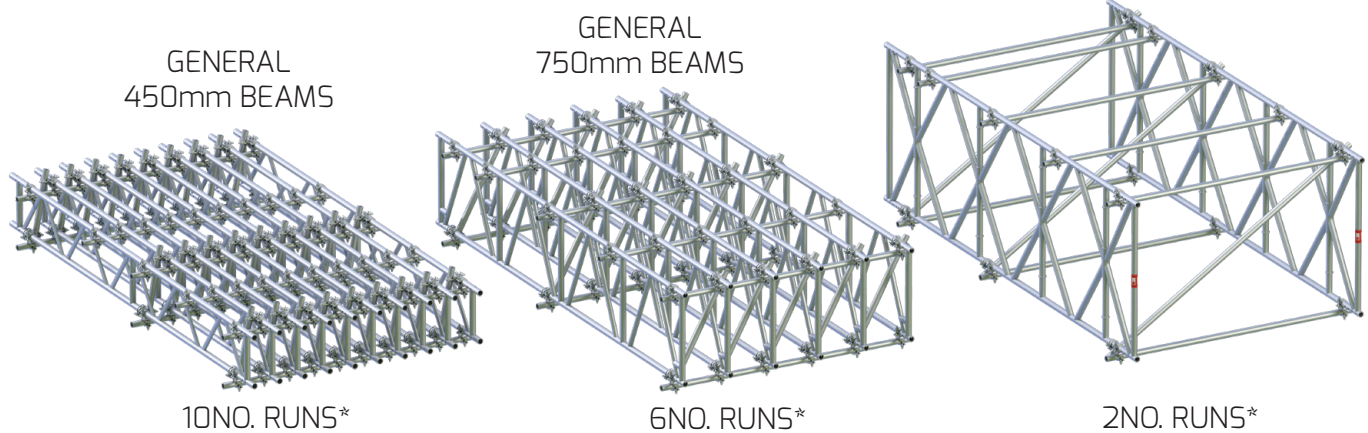
# ASTERIX/ASTERIX HD



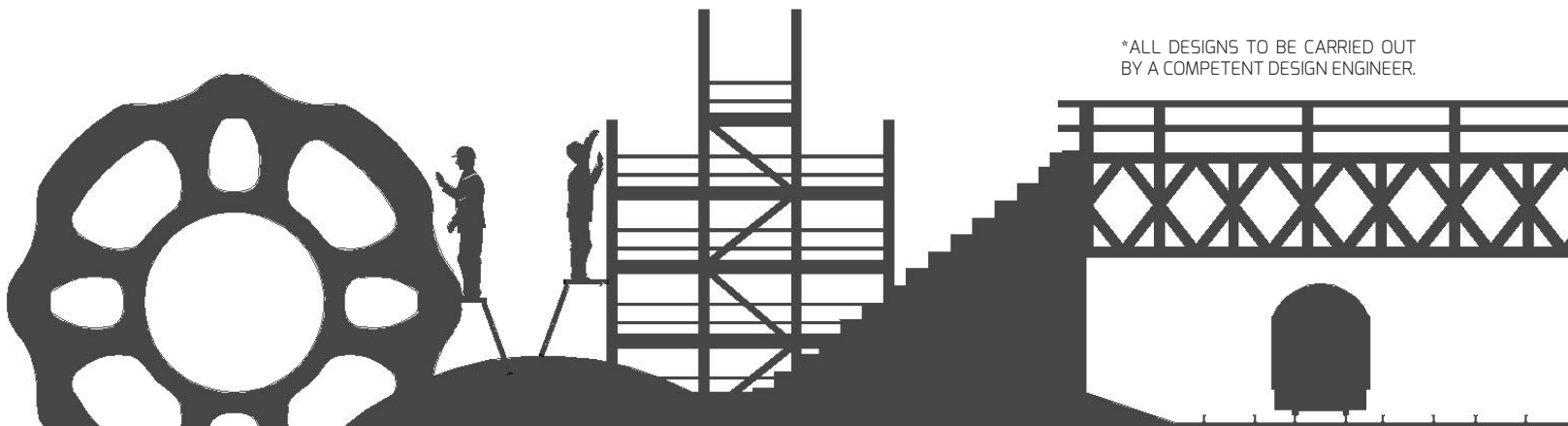
## ● DESSA ASTERIX Aluminium Beam Range

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.

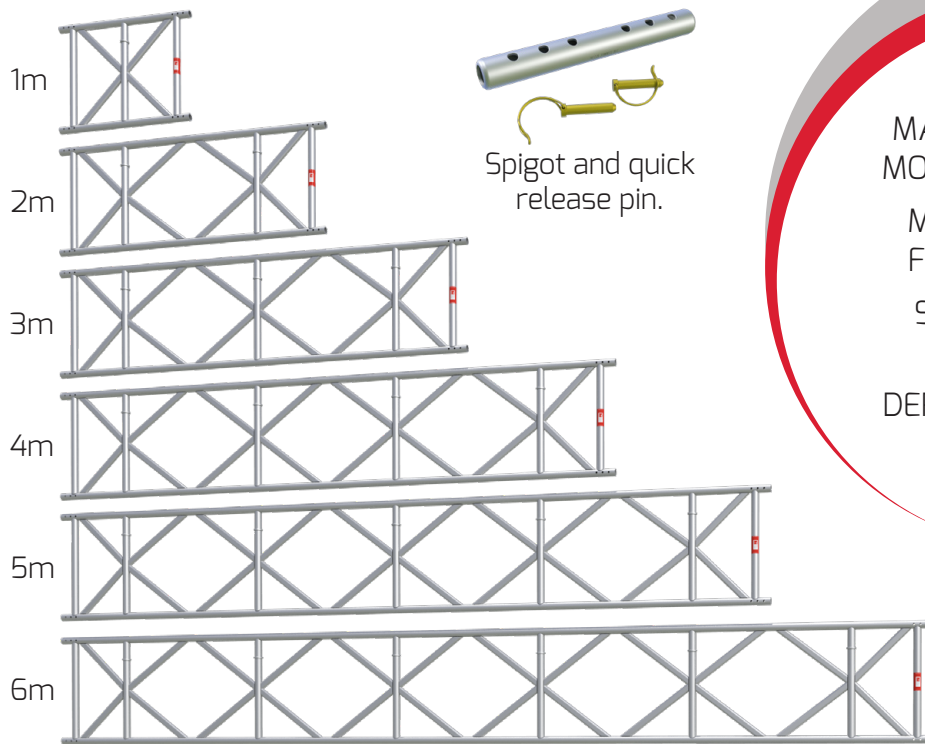
## ● SAME JOB - LESS BEAMS!



\*ALL DESIGNS TO BE CARRIED OUT BY A COMPETENT DESIGN ENGINEER.







### ASTERIX

MAXIMUM BENDING  
MOMENT\*\* 41.31kNm

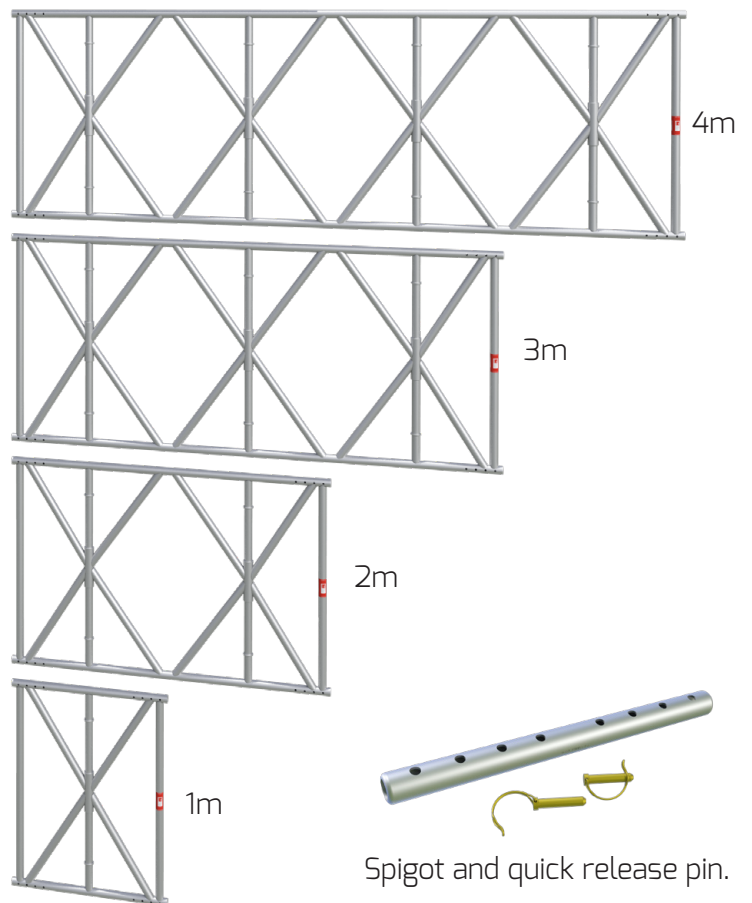
MAXIMUM SHEAR  
FORCE\*\* 23.73kN

STOCK LENGTHS  
1,2,3,4,5,6m

DEPTH = 702mm C/C

\*\* FULL DATA SHEET  
AVAILABLE ON REQUEST.

Bolt-free lacing and bracing kit available.



### ASTERIX HD

MAXIMUM BENDING  
MOMENT\*\* 102.20kNm

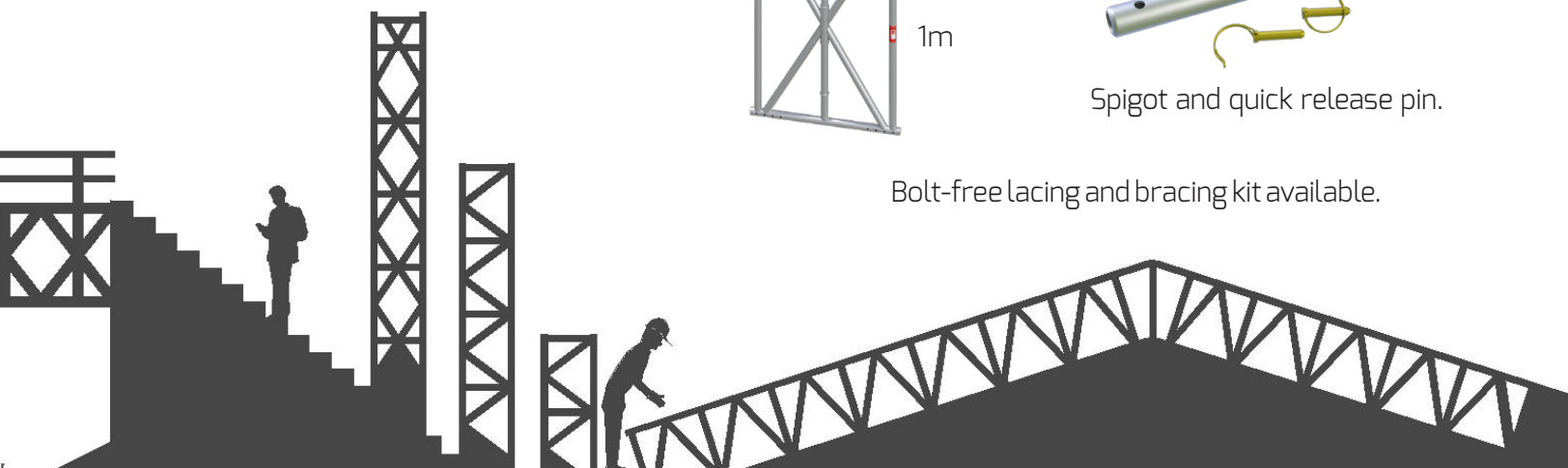
MAXIMUM SHEAR  
FORCE\*\* 32.60kN

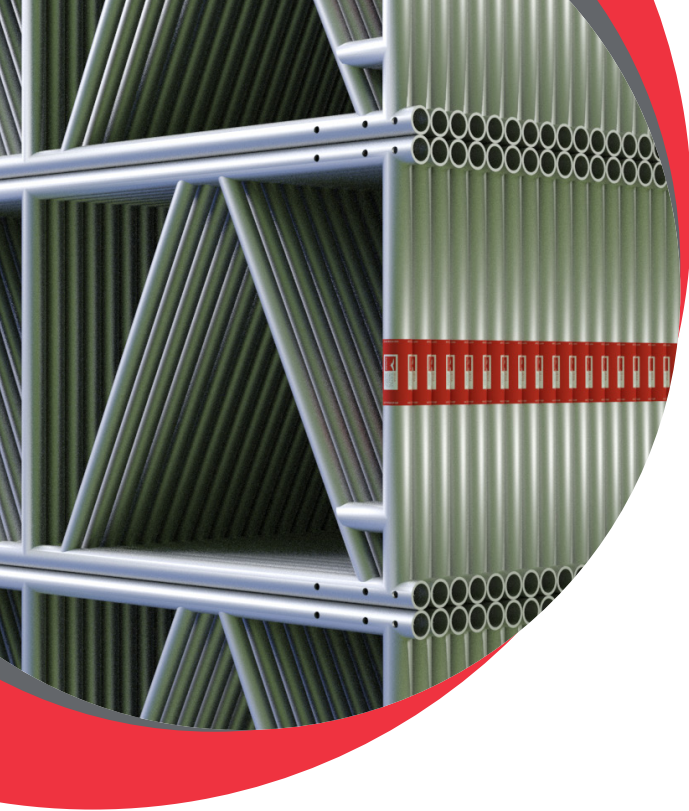
STOCK LENGTHS  
0.55,1,2,3,4m

DEPTH = 1280mm C/C

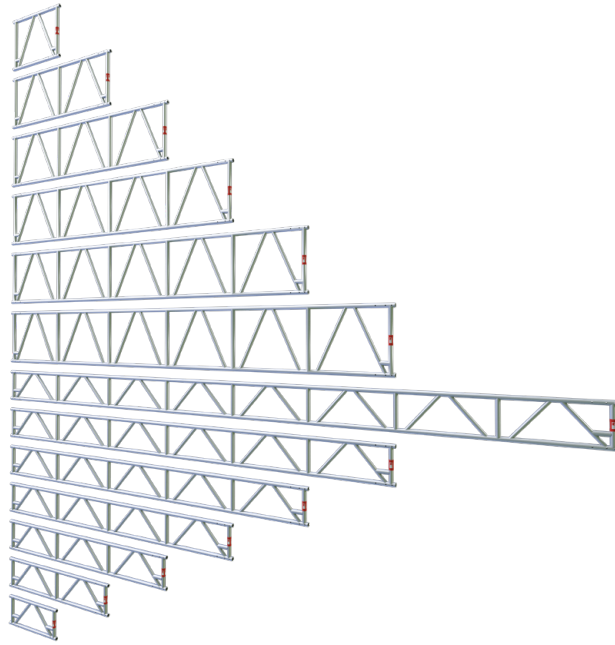
\*\* FULL DATA SHEET  
AVAILABLE ON REQUEST.

Bolt-free lacing and bracing kit available.





# D78 AND D45 BEAMS



## ● DESSA D78 and D45 beams

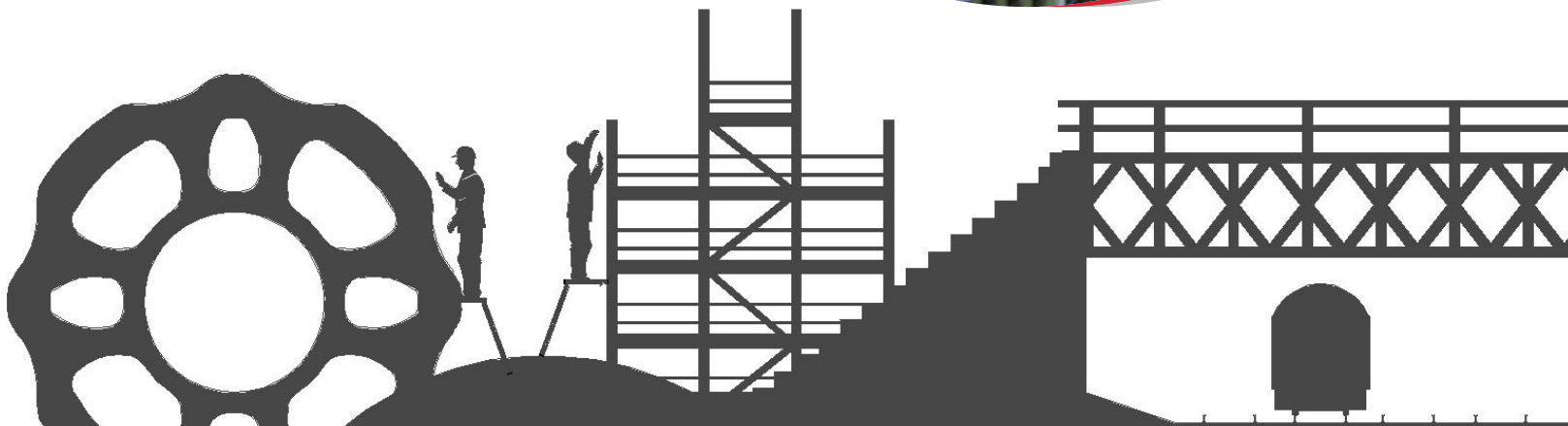
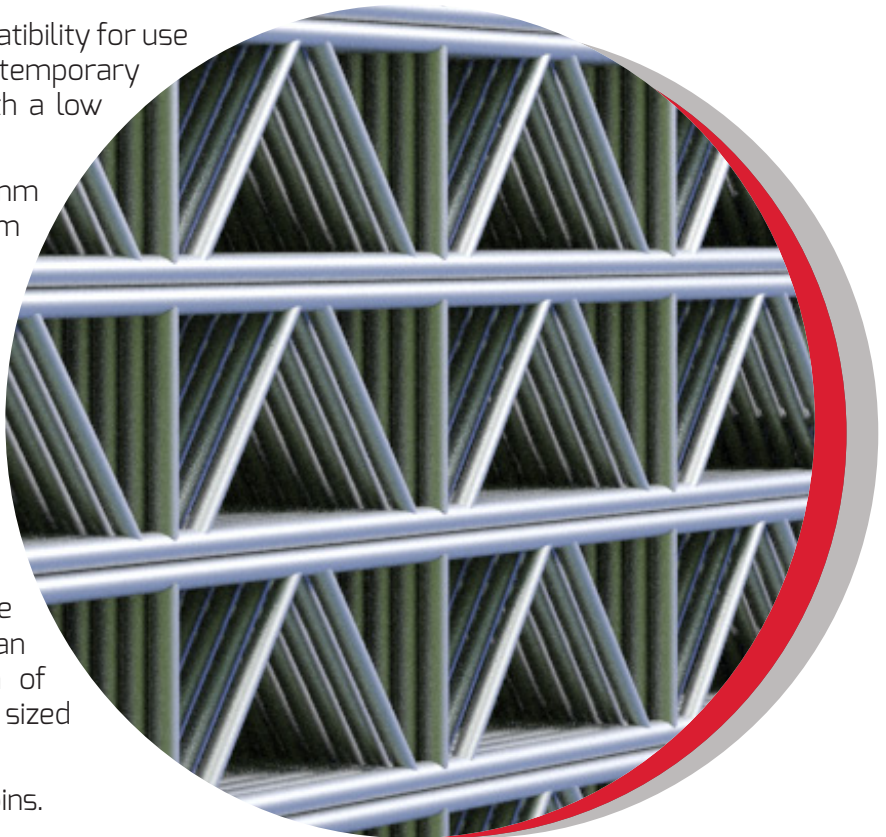
The DESSA unit beam series offer compatibility for use with traditional scaffold structures and temporary roofs. They combine high strength with a low weight and cost.

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

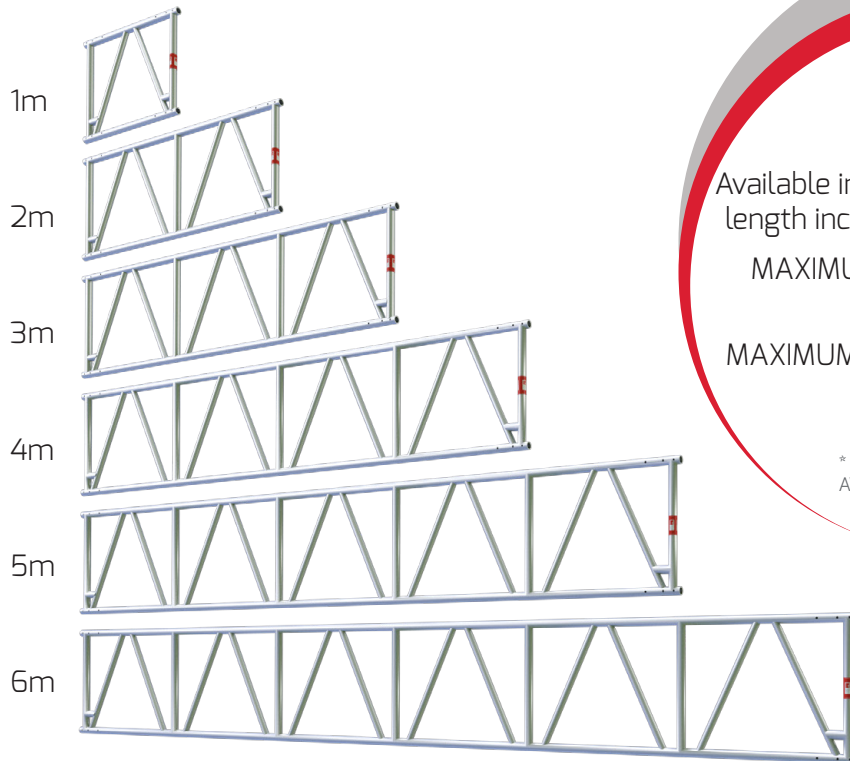
The D45 beams are available in 450mm depth and in lengths of 1, 2, 3, 4, 5, 6 and 8m.

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.



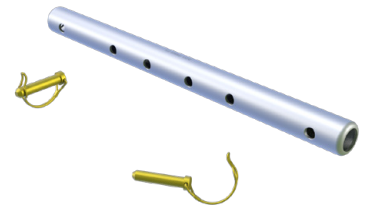
### D78 BEAMS

Available in 780mm depth and in 1m length increments from 1m to 6m.

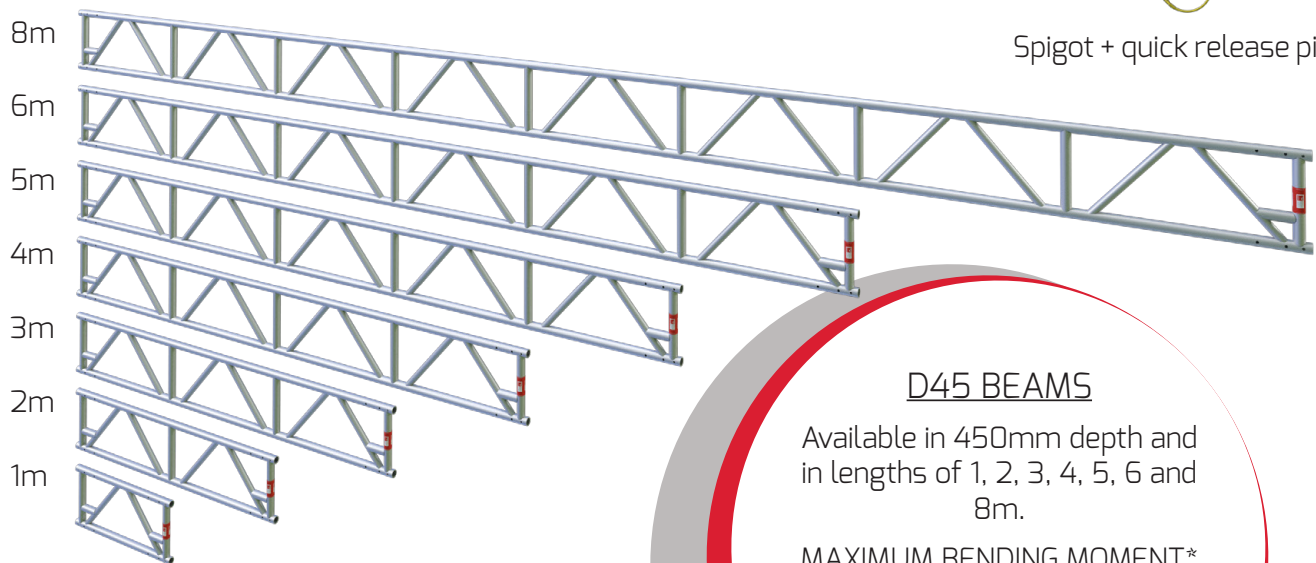
MAXIMUM BENDING MOMENT\*  
38.84kNm

MAXIMUM SHEAR FORCE\* 23.71kN

\* FULL DATA SHEET  
AVAILABLE ON REQUEST.



Spigot + quick release pin



Bolt-free lacing and bracing kit available.

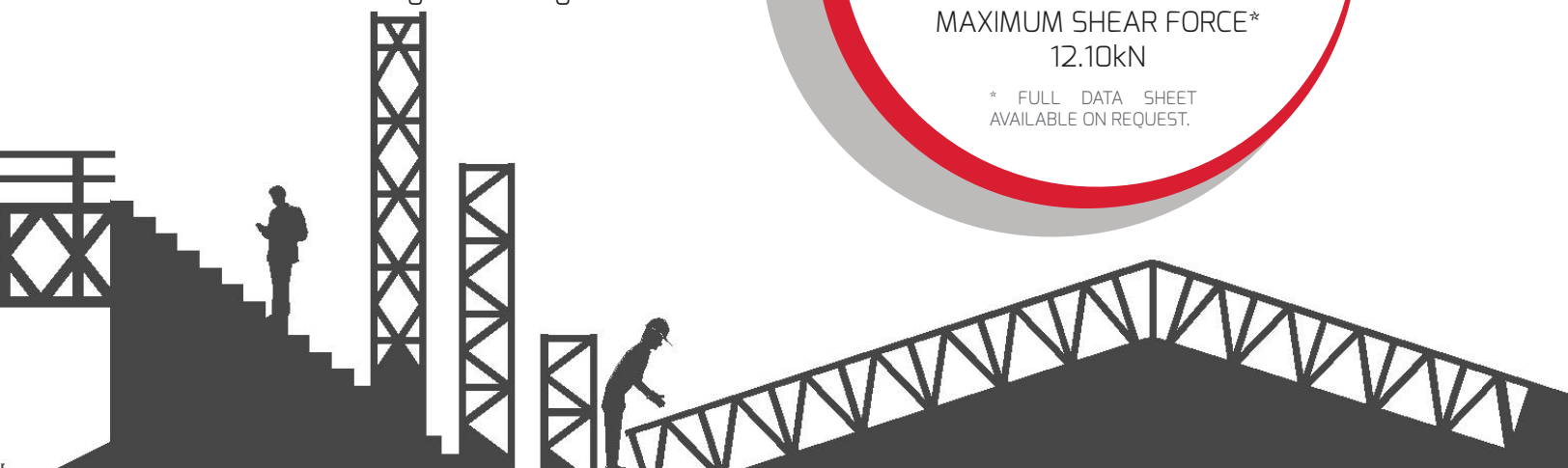
### D45 BEAMS

Available in 450mm depth and in lengths of 1, 2, 3, 4, 5, 6 and 8m.

MAXIMUM BENDING MOMENT\*  
22.20kNm

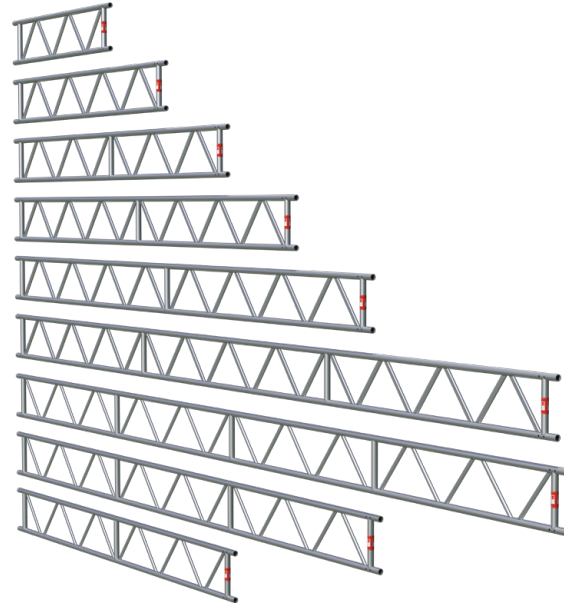
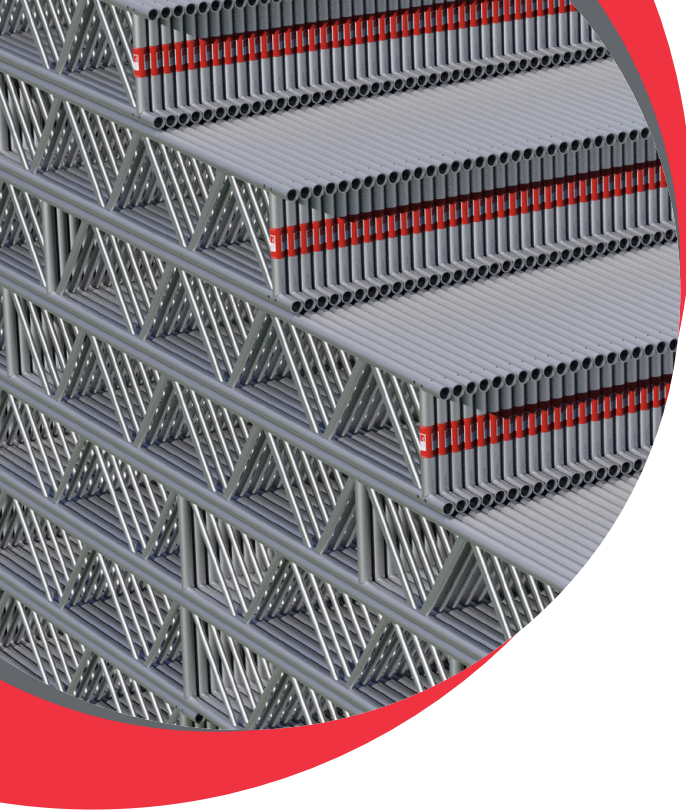
MAXIMUM SHEAR FORCE\*  
12.10kN

\* FULL DATA SHEET  
AVAILABLE ON REQUEST.





# L45 AND S45 BEAMS



## ● DESSA L45 and S45 beams

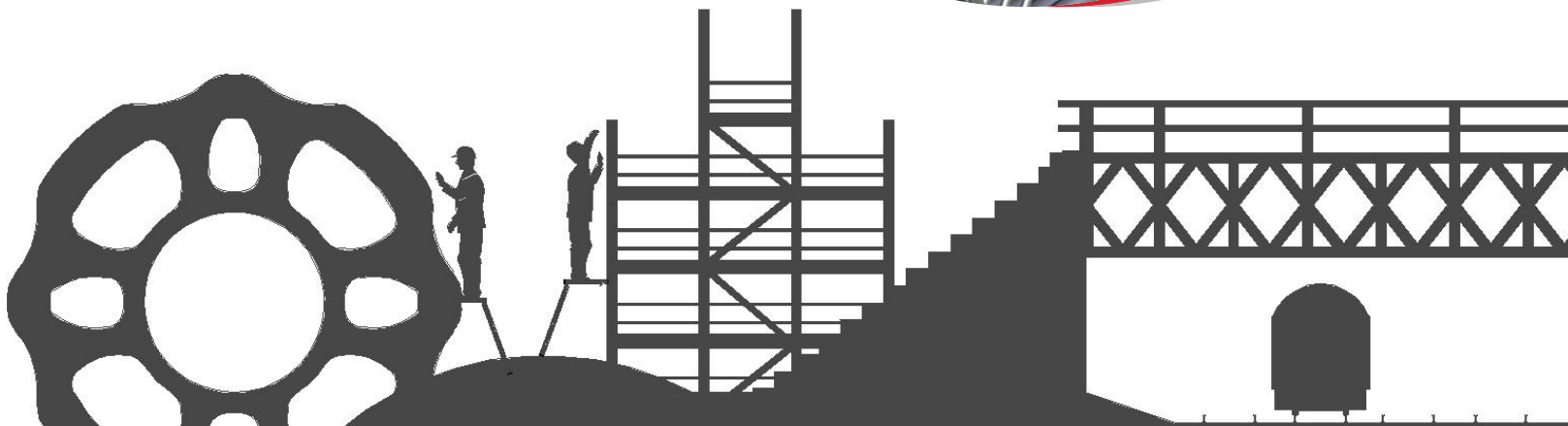
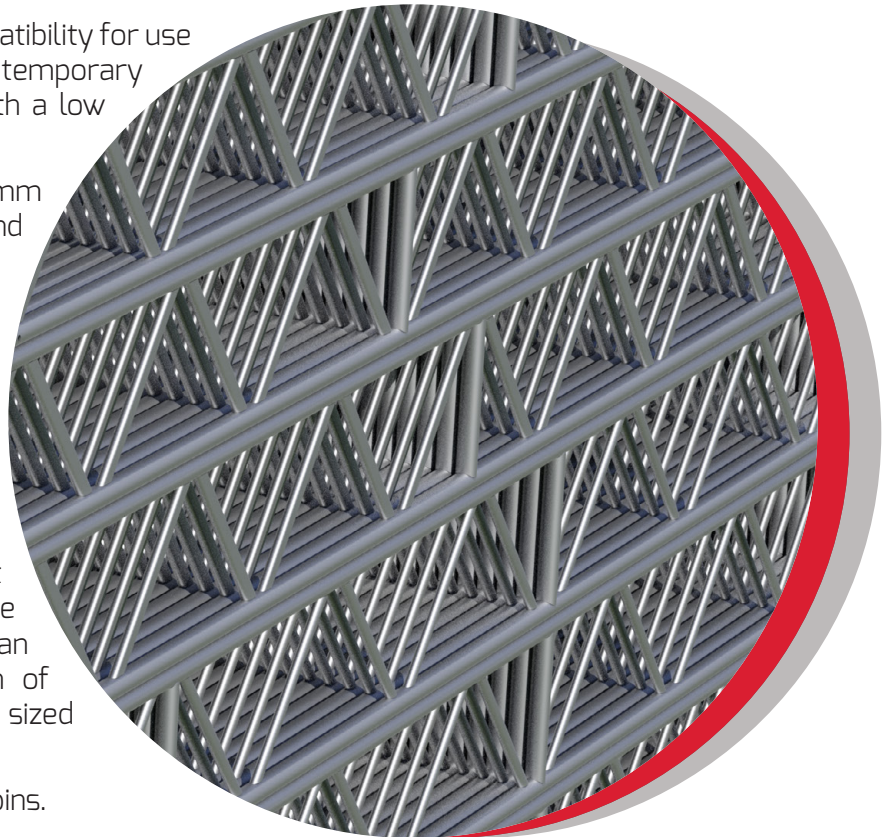
The DESSA unit beam series offer compatibility for use with traditional scaffold structures and temporary roofs. They combine high strength with a low weight and cost.

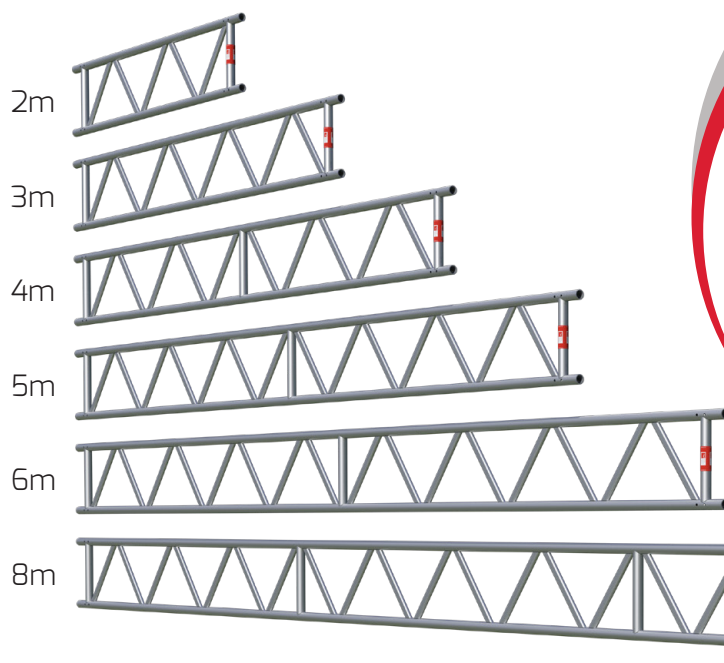
The L45 beams are available in 450mm depth and in lengths of 2, 3, 4, 5, 6 and 8m.

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.





### L45 BEAMS

Available in 450mm depth and in lengths of 2, 3, 4, 5, 6 and 8m.

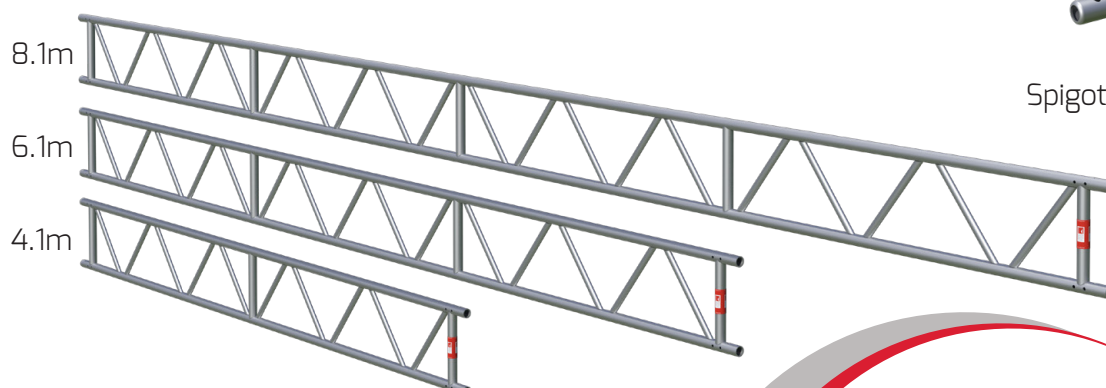
MAXIMUM BENDING MOMENT\*  
21.98kNm

MAXIMUM SHEAR FORCE\* 11.69kN

\* FULL DATA SHEET  
AVAILABLE ON REQUEST.



Spigot + quick release pin



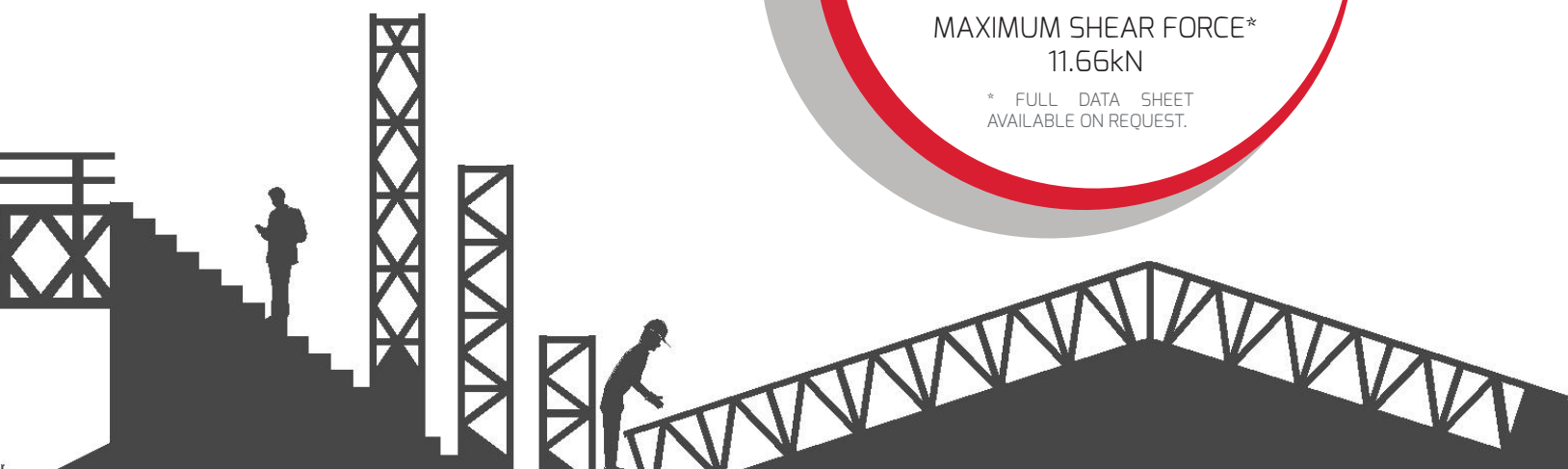
### S45 BEAMS

Available in 450mm depth and in 2m length increments from 4.1m to 8.1m.

MAXIMUM BENDING MOMENT\*  
20.19kNm

MAXIMUM SHEAR FORCE\*  
11.66kN

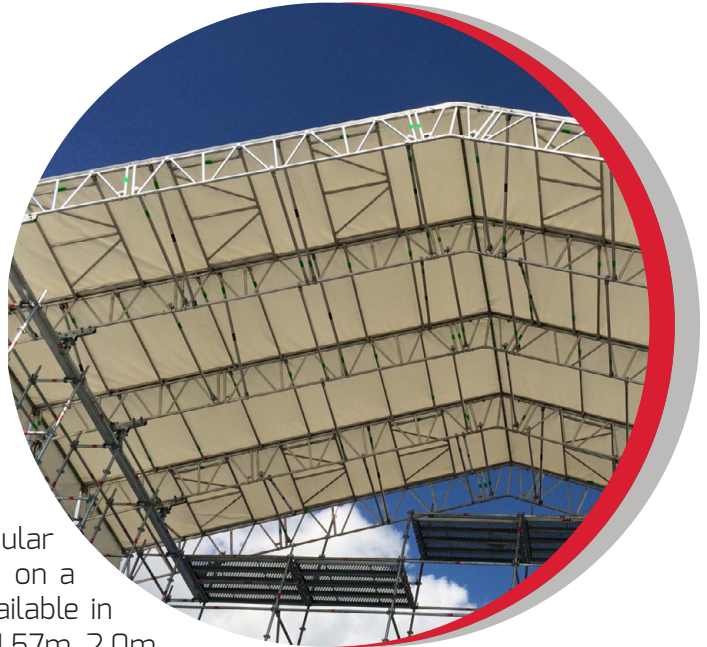
\* FULL DATA SHEET  
AVAILABLE ON REQUEST.





# TEMPORARY ROOFING

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



DESSA roofing 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 roofing 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.

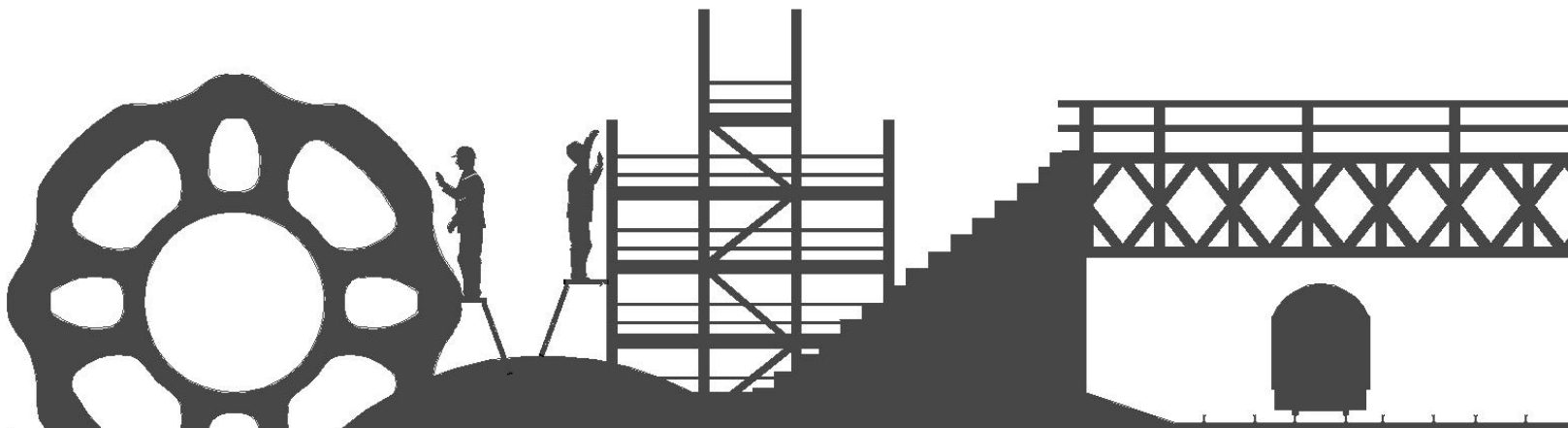
## ● More than just a roof...

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

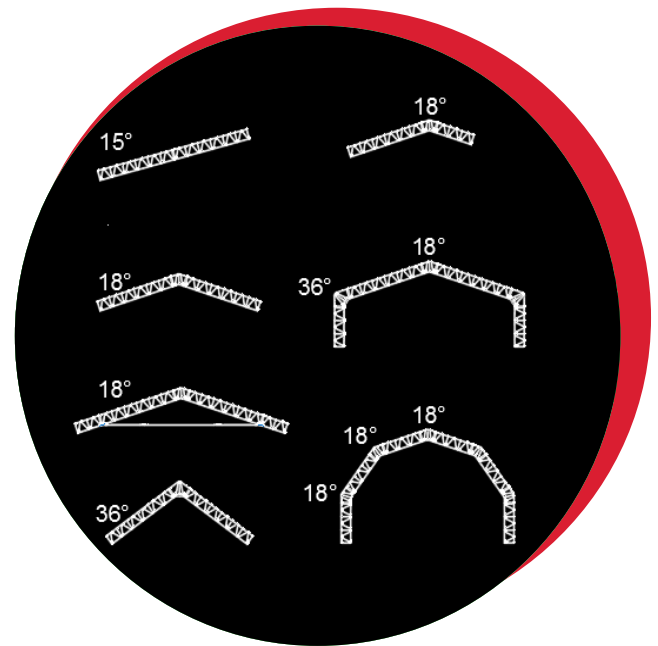
DESSA roof systems offer an innovative solution to many requirements from freestanding shelters, temporary buildings, railways, building encapsulations, site protection, archaeological digs to rock concerts and events.





## ● Features and 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



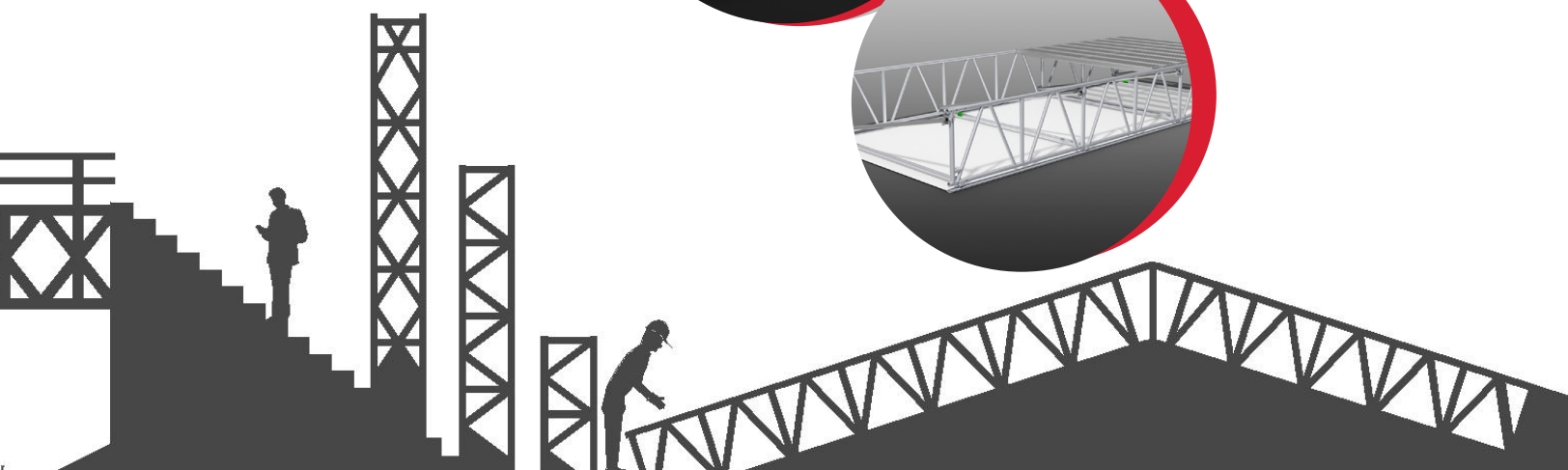
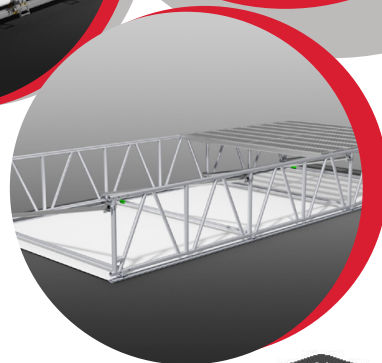
A proven range of systems with over 20 years of continual use in extreme climatic conditions. All ranges are lightweight and designed to be erected without the use of a crane. Multi-purpose weatherproofing fits roof and scaffolds alike and DESSA temporary roofing can be erected as mono pitch, duo pitch 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

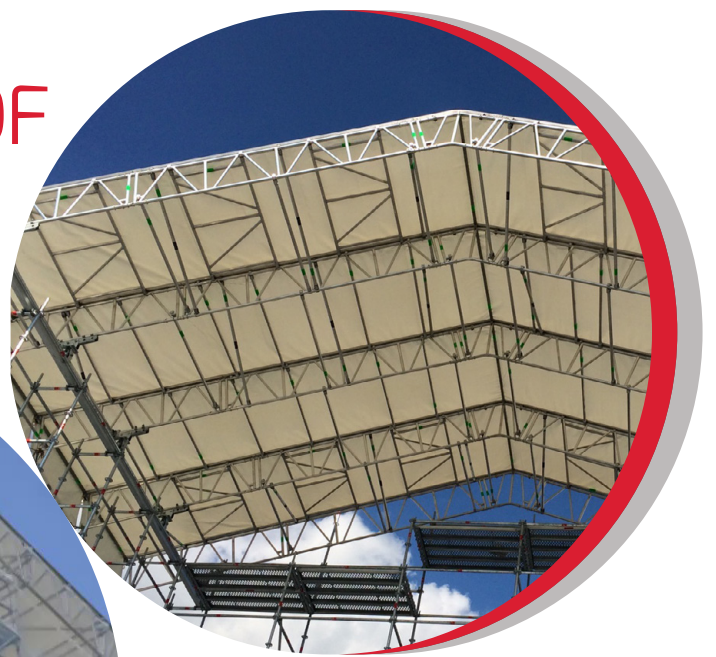
DESSA beams are manufactured in regular batches and large stocks are held for supply, usually available for same day / next day dispatch. Based in Cambridgeshire UK, DESSA Technical Bureau and Distribution Centre has ideal proximity to the A1/A14/M1 links. DESSA is well placed to respond to your logistical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

### Built-in Safety Features

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



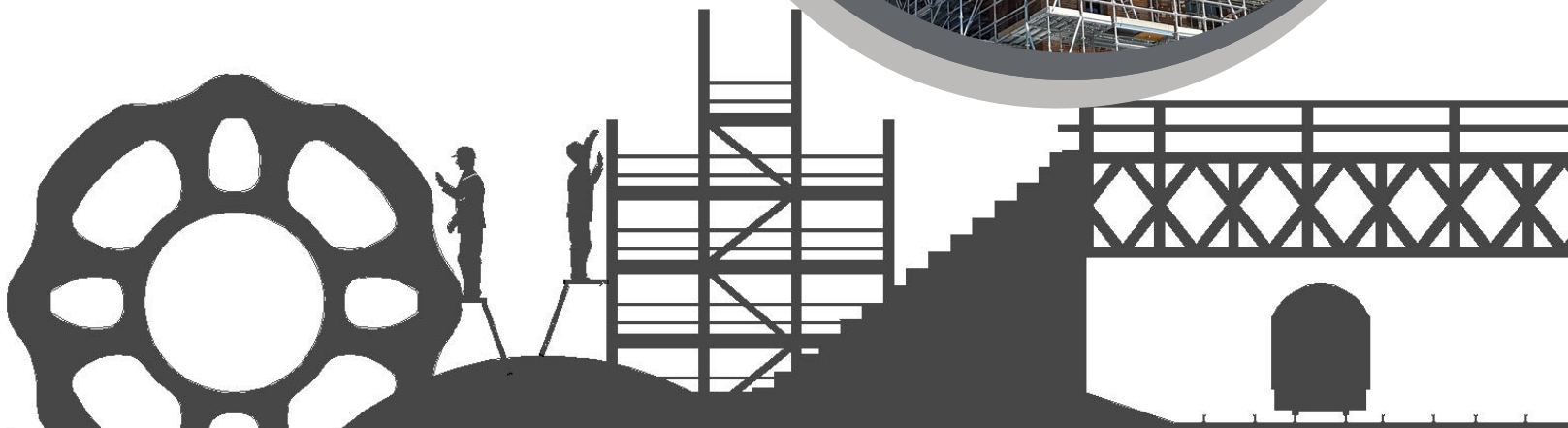
UNI ROOF



ALTRIX UK

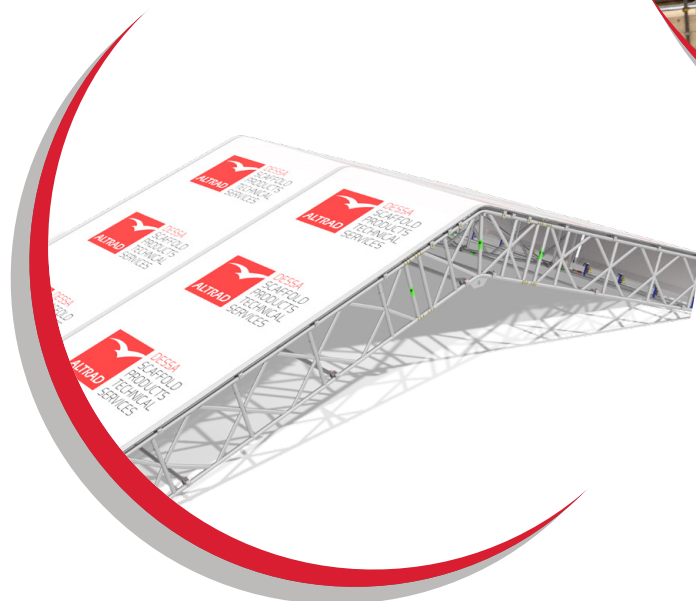


ALTRIX FR



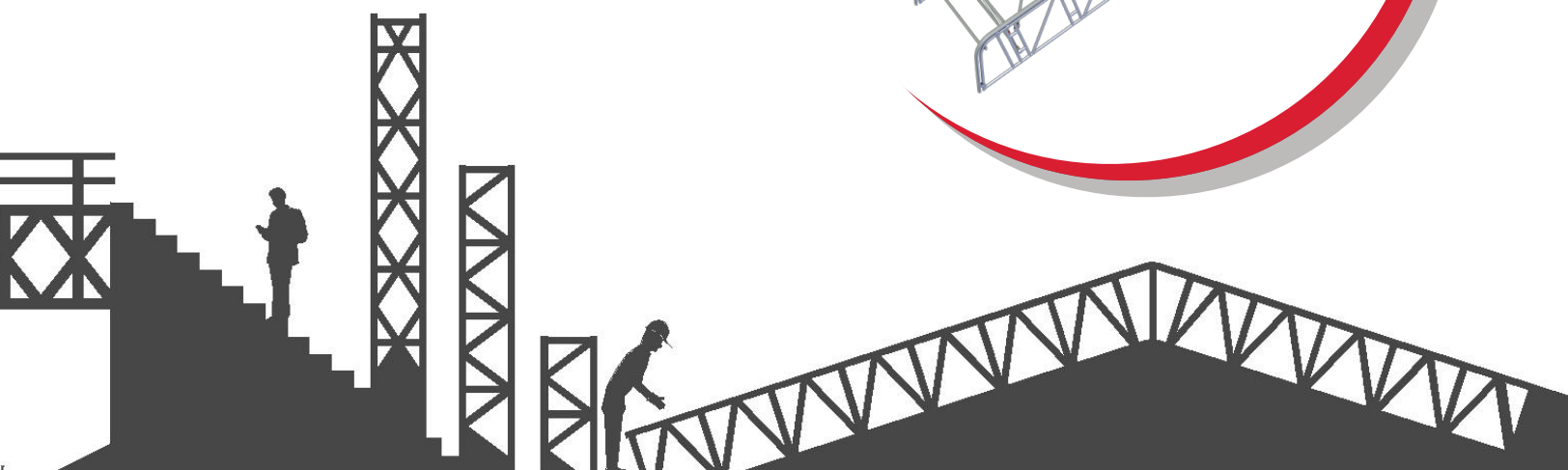
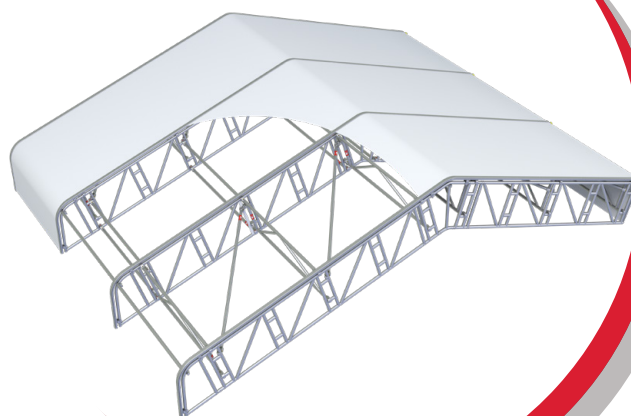


# ASTERIX HD



## ASTERIX

## ALTRIX DE







# PORTABLE STAIR

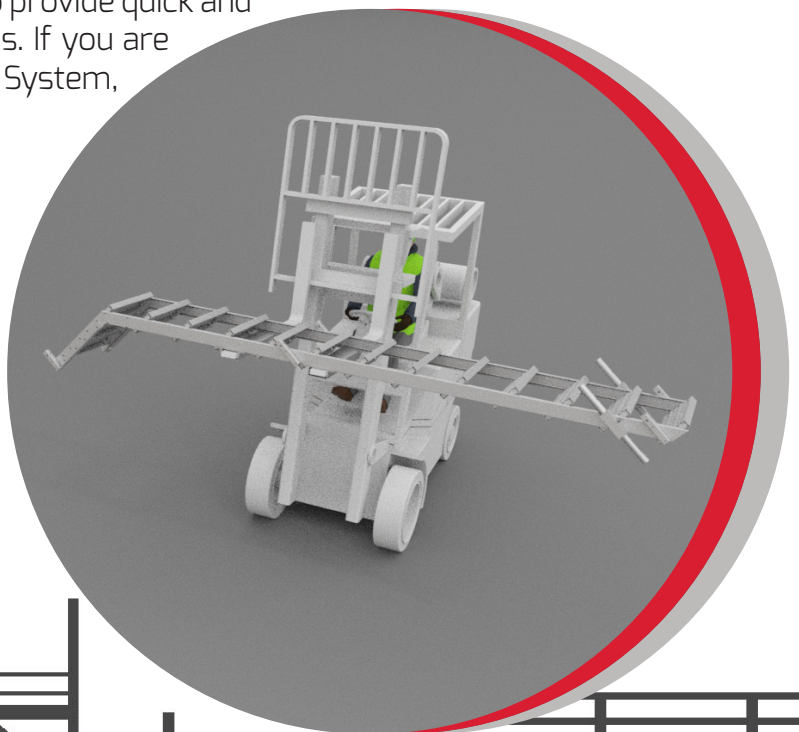


## ● DESSA Portable stair

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.

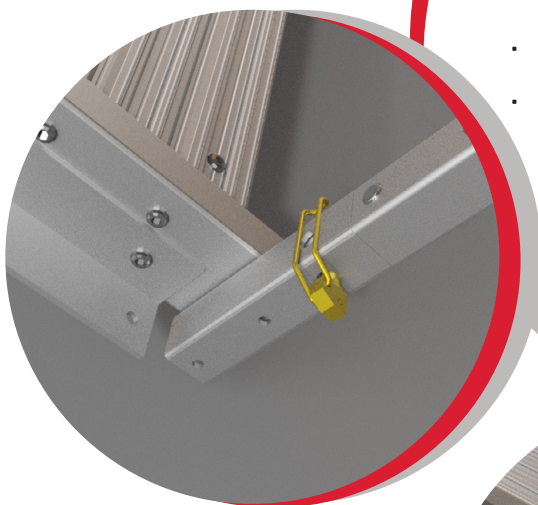
## ● HSE compliant

- 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)

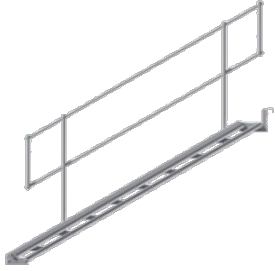


- Features include:
- Integrated forklift lifting brackets
  - Quick release pins for securing the guardrails
  - Adjustable base support
  - Integrated landing platform with brackets that make the installation easy and safe



# RANGER™ STAIR

## RANGER™ STAIR - FEATURES AND BENEFITS



### 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



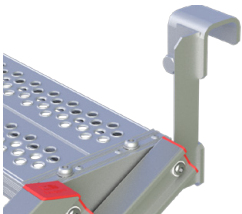
### INTEGRATED GUARDRAIL SOCKET WITHIN TREAD

- 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



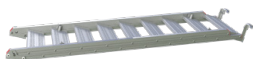
### INTEGRATED LOCKING MECHANISM WITHIN FOOTPLATES

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



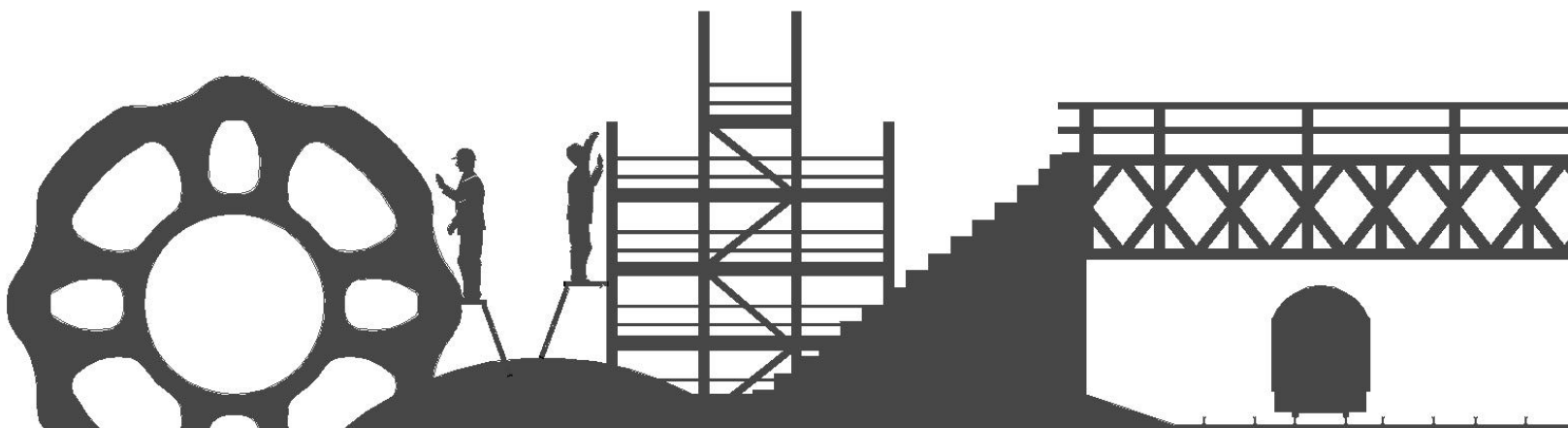
### MULTIPLE TOP TREAD BRACKET OPTIONS

- 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

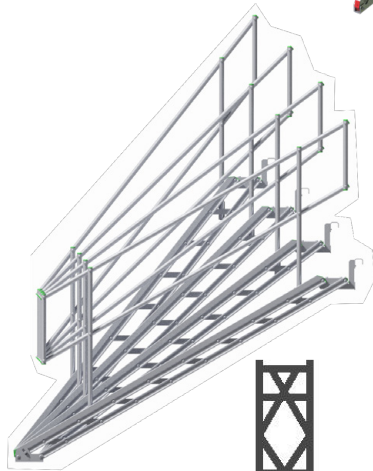
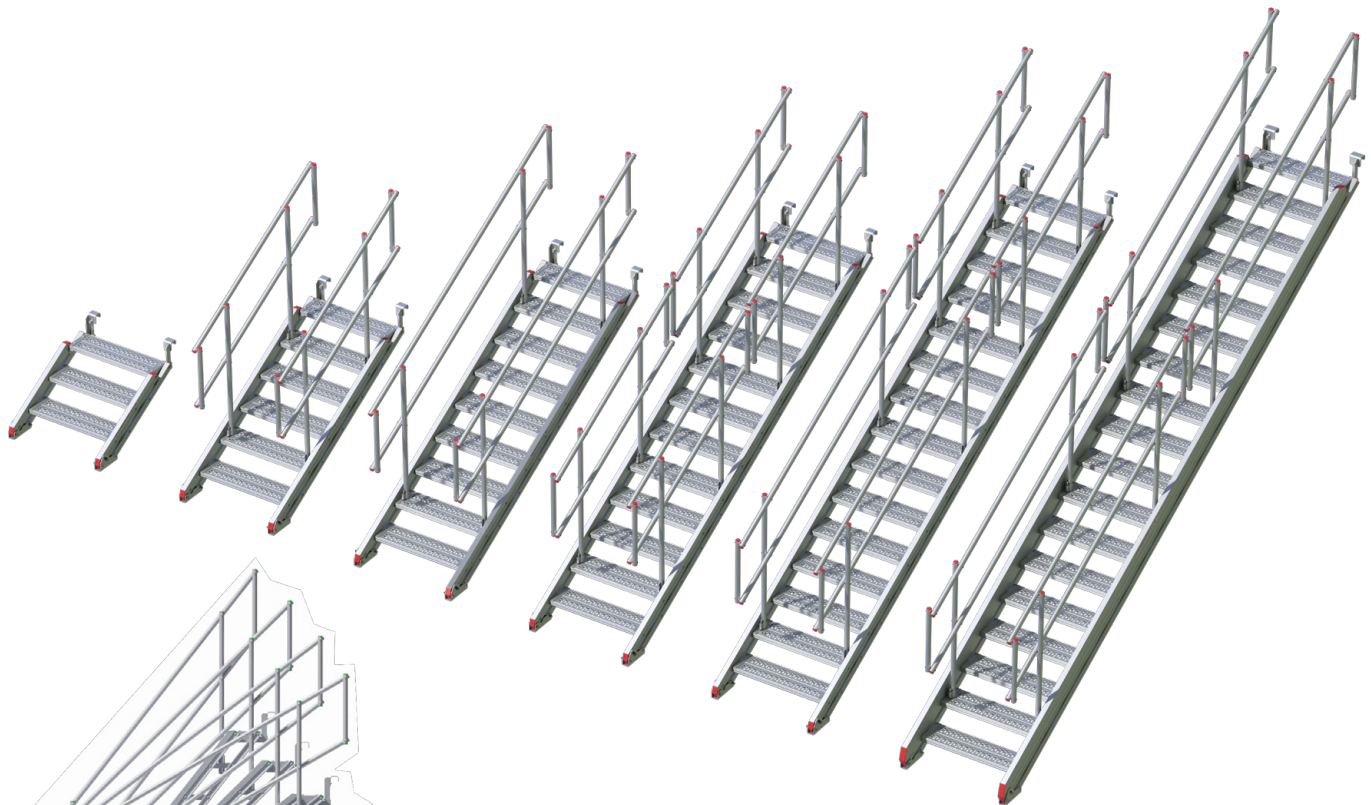
- Allows for ease of storage / shipping / transportation.
- Presents time, labour and cost saving options





**RANGERTM STAIR OPERATIONAL FOOTPRINTS  
(FLOOR LEVEL TO TOP TREAD)**

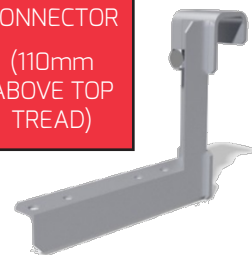
STAIR UNIT	TREADS	MINIMUM HEIGHT (mm)	MAXIMUM HEIGHT (mm)	GUARDRAIL REQUIREMENT	WIDTHS (mm)
R50003	3	557	783	NONE	 <p><b>OVERALL = 812</b> <b>TREAD = 720</b> <b>CLEAR = 547</b></p>
R50006	6	985	1457	2NO. RG0001	
R50009	9	1412	2130	2NO. RG0002	
R50012	12	1840	2804	4NO. RG0001	
R50015	15	2267	3478	2NO. RG0001, 2NO. RG0002	
R50018	18	2696	4152	4NO. RG0002	



**SLAB  
CONNECTOR**  
(165MM  
ABOVE TOP  
TREAD)



**TUBE  
CONNECTOR**  
(110mm  
ABOVE TOP  
TREAD)



# ONE UP™ SAFETY PLATFORM

## ● DESSA Products – OneUp™ Safety Platform

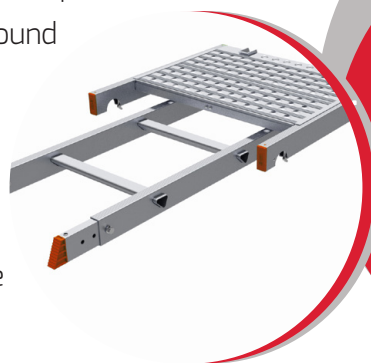
An essential part of any scaffolder's toolkit, the safety platform allows the safe erection of the next lift. The OneUp™ is a fold-flat item for easy handling and has an integral ladder to suit system scaffold as well as traditional tube and fit scaffolding. The non-slip, light-weight platform can carry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

Technical Data	
Platform Dimensions	390mm x 570mm
Permissible Load	175 kg
Maximum Guardrail Height	1.02m
Minimum Guardrail Height	0.96m
OneUp™ Safety Platform Weight	6.2 kg
Compliance	EN131 Ladders - Requirements, testing, marking

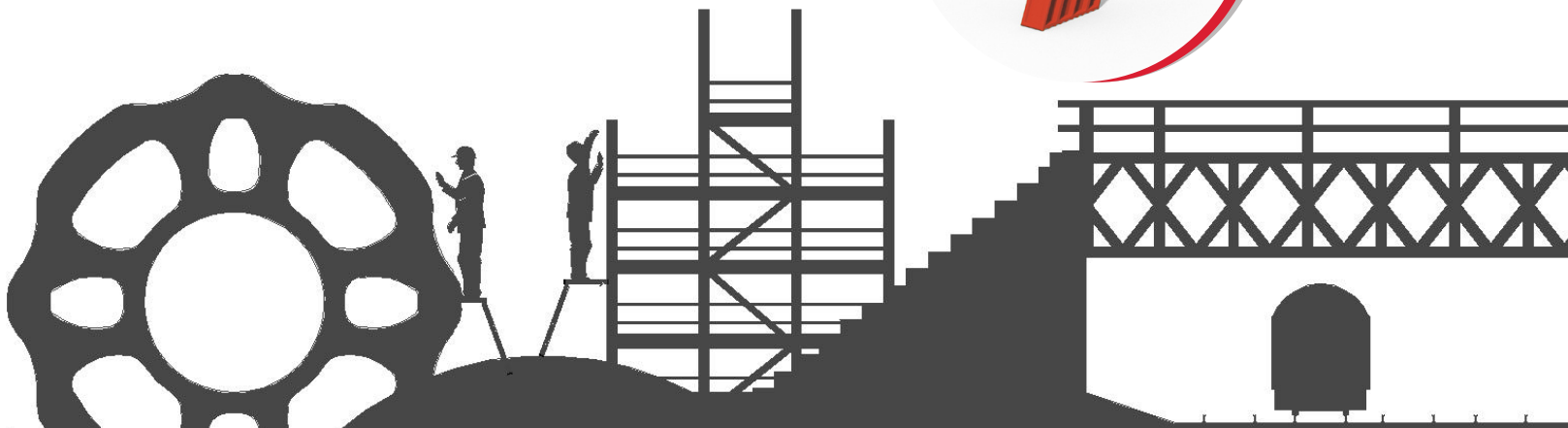


## ● OneUp™ Features and Benefits

- Simple and convenient all-in-one ladder and platform unit
- 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



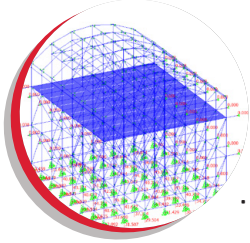
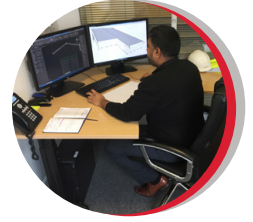
- Sprung retaining hook
- Platform
- Folds flat with velcro strap
- Safety/identify label
- Hinge
- Non-slip
- Ladder/rungs
- Adjustable feet





# 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.

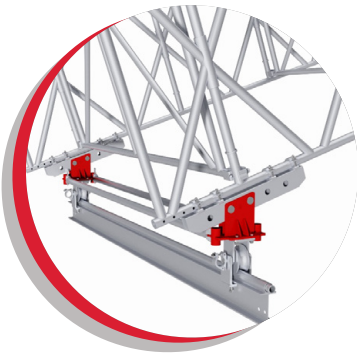
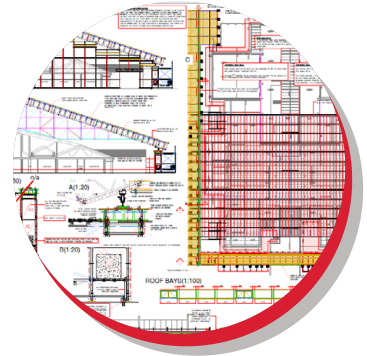


At DESSA we take full advantage of state of the art engineering software:

- Autodesk Product Design & Manufacturing Collection (includes: AutoCad, AutoCad Mechanical, Inventor, 3ds Max)
- Gritec visual analysis software, full frame 3D.
- Sketchup
- Adobe Creative Cloud (Photoshop, InDesign, Premiere Pro)

WE ARE PROUD TO OFFER:

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



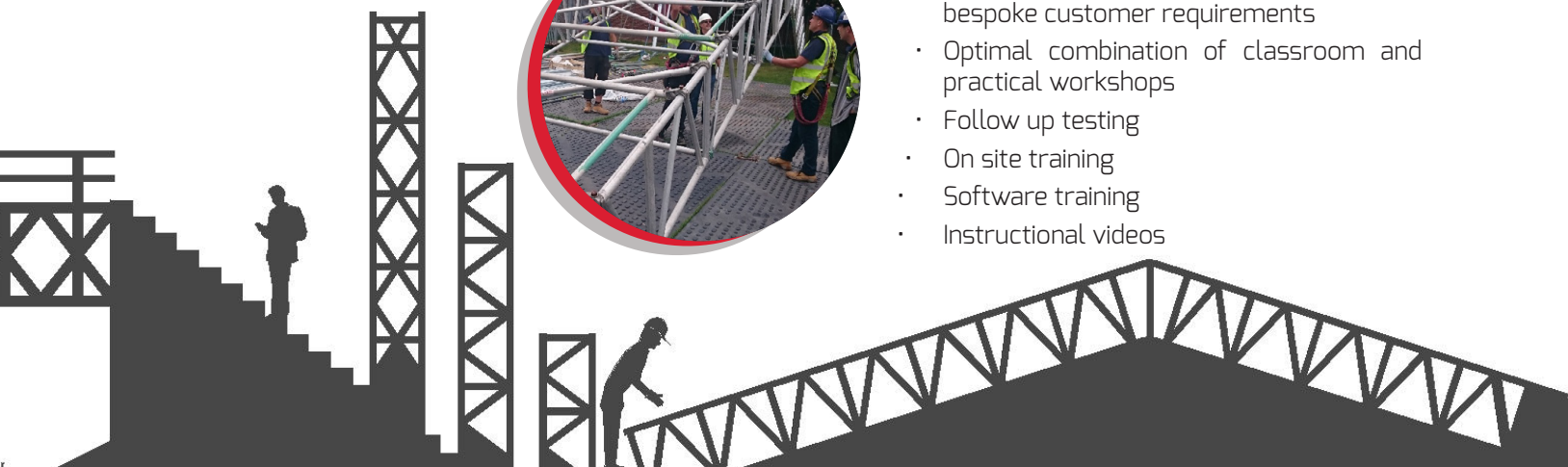
Innovative & Bespoke Concept development

- 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



- Conduct tailored training courses for bespoke customer requirements
- Optimal combination of classroom and practical workshops
- Follow up testing
- On site training
- Software training
- Instructional videos





DESSA  
SCAFFOLD  
PRODUCTS  
TECHNICAL  
SERVICES

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