



**nocn**

---

PART OF **nocn** GROUP



# **Schedule of Common Lifts**

GUIDANCE DOCUMENT

**NOCN / Industry Lifting Lead AP Group Issue 2 (2023)**



## The Lifting Lead AP Group

The Industry Lifting Lead AP Group was formed in 2015 to bring together like minded people within industry to encourage improved collaboration and co-ordination, while aiding communication between working groups, associations, governing bodies, contractors, owners and suppliers. The aim is to support industry on improvements and assistance to areas such as standards, guidance, training and improved methods of working to make lifting operations safer and more efficient.



## The NOCN Group

NOCN Group is an educational charity whose core aims are to help learners reach their potential and organisations thrive. The group includes business units specialising in regulated UK and international qualifications, End Point Assessment, assured short courses, SMART job cards, assessment services, consultancy, and research.

We are the only awarding body in the UK which specialises in productivity and focus on increasing the UK's competitiveness globally. As the second-largest awarding organisation in the UK construction sector, we are committed to working for a better future for UK construction.

NOCN are proud to host this document on behalf of the Lifting Lead AP Group and to make it available to the construction sector. Our thanks go out to all of the contributors, especially Tom Pawson without whom, this would not have been possible.

# Schedule of Common Lifts



NOCN / Industry Lifting Lead AP Group Issue 2 (2023)

## Contents

Introduction.....	4
Considerations to be made by the user prior to using this guidance.....	4
Lifting accessories.....	4
EN 818-4:1996 + A1:2008 “Chain slings – Grade 8” Table 3.....	5
General safe lifting guidance.....	6
<i>Steel square mesh reinforcement</i> .....	7
<i>Reinforcement bars (bundled)</i> .....	8
<i>Scaffold tubes (bundled)</i> .....	9
<i>Scaffold boards</i> .....	10
<i>Sheet timber bales</i> .....	11
<i>Kerbs (using grab)</i> .....	12
<i>Precast concrete manhole rings</i> .....	13
<i>Manhole cover slabs</i> .....	14
<i>Pipes (ductile iron)</i> .....	15
<i>Pipes (polyethylene)</i> .....	16
<i>Palletised materials</i> .....	17
<i>Boat skip / tipping skip</i> .....	18
<i>Concrete column skip</i> .....	19
<i>Crane liftable skip</i> .....	20
<i>Bulk bags</i> .....	21
<i>Goods cage (up to 5,000kg SWL)</i> .....	22
<i>Stillage</i> .....	23
<i>Steel beams</i> .....	24
<i>Towable compressor</i> .....	25
<i>Lighting tower</i> .....	26
<i>Ride on roller</i> .....	27
<i>Towable pressure washer</i> .....	28
<i>Wheeled generator (up to 15kVA)</i> .....	29
<i>Plate compactor and trench rammer</i> .....	30
<i>Timber mats (Ekki / bog mats)</i> .....	31
<i>Transformer (up to 20kVA)</i> .....	32
<i>Tool chest</i> .....	33
<i>Fuel cube (up to 2,000 litres)</i> .....	34
<i>Fuel bowser (up to 1,000 litres)</i> .....	35
<i>Temporary Vertical Concrete Barrier (TVCB)</i> .....	36
<i>Elite / Legato blocks</i> .....	37
<i>Excavator bucket</i> .....	38
<i>Hydraulic breaker</i> .....	39
<i>Fence panels (Heras and pedestrian)</i> .....	40

## Introduction

This document has been produced to provide guidance on slinging methods for a number of loads commonly lifted on construction sites. It is not, and nor is it intended to be, a substitute for appropriate lift planning by a competent person.

## Considerations to be made by the user prior to using this guidance

The user's attention is brought to the following points, and the requirement for further assessment by the user if necessary:

- All lifting operations must be planned and managed by a competent person. The document is only to be used by people who are appropriately trained and competent.
- This document is intended to be guidance and, where used, the competent person assumes full responsibility for its accuracy and suitability.
- The competent person must conduct a suitable and sufficient risk assessment to ensure that environmental and load hazards are identified and managed appropriately.
- No sector specific working restrictions have been considered, e.g. exceptional hazard sites (nuclear, petrochemical etc), working adjacent to railways etc.
- The weight and geometry of loads has not been assessed in relation to any maximum safe wind speeds for the lifting operation (i.e. any sail effects on the loads).
- No assessment has been made of any temporary works requirements in relation to the load.
- No assessment has been made of lifting operation complexity.
- All loads have been considered to be inherently stable and with centres of gravity below the attachment points as shown in the images.
- No assessment has been made of any additional requirements to control or stabilise the load during the lifting operation, for example by tag line.
- Where reasonably practicable, designated integral / engineered lifting points should be included on loads and, where they do exist, they should be used for lifting from in preference to non-captive attachment methods.

## Lifting accessories

Slinging arrangements within this guidance are minimum recommendations; greater capacity accessories can be used provided the lifting accessories are compatible with other lifting accessories and the load.

All chain slings recommended within this guidance are from EN 818 Part 4 Table 3 ("Short link chain for lifting purposes – Safety – Chain slings – Grade 8"), replicated on the following page. The capacities are based on avoiding utilisation greater than 85%. Where alternative grades of chains are being used, an assessment by a competent person must be made to determine the appropriate minimum chain capacity.



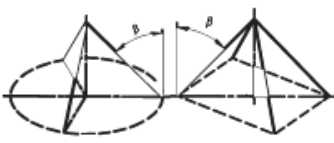
All lifting accessories being used must be suitable for the environment of use (for example temperature, chemicals etc) and have any capacity reduction applied as per manufacturer's recommendations.

Where a multi leg sling is being used, but not all legs are in use, the capacity shall be reduced according to the number of legs being used divided by the total number of legs.

Lifting accessory manufacturer's safe use instructions, for example in relation to any minimum corner radius for chain links, must be followed.

Where lifting accessories, for example textile slings, could be damaged by the load, secondary protection should be provided.

EN 818-4:1996 + A1:2008 “Chain slings – Grade 8” Table 3

Nominal size of chain sling mm	Working load limits, t, for				
	 Single-leg chain slings	 Two leg chain slings		 Three - and - four - leg chain slings	
		$0^\circ < \beta \leq 45^\circ$	$45^\circ < \beta \leq 60^\circ$	$0^\circ < \beta \leq 45^\circ$	$45^\circ < \beta \leq 60^\circ$
		Factor 1,4	Factor 1,0	Factor 2,1	Factor 1,5
4	0,5	0,71	0,5	1,06	0,75
5	0,8	1,12	0,8	1,6	1,18
6	1,12	1,6	1,12	2,36	1,7
7	1,5	2,12	1,5	3,15	2,24
8	2	2,8	2	4,25	3
10	3,15	4,25	3,15	6,7	4,75
13	5,3	7,5	5,3	11,2	8
16	8	11,2	8	17	11,8
18	10	14	10	21,2	15
19	11,2	16	11,2	23,6	17
20	12,5	17	12,5	26,5	19
22	15	21,2	15	31,5	22,4
23	16	23,6	16	35,5	25
25	20	28	20	40	30
26	21,2	30	21,2	45	31,5
28	25	33,5	25	50	37,5
32	31,5	45	31,5	67	47,5
36	40	56	40	85	60
40	50	71	50	106	75
45	63	90	63	132	95

# General safe lifting guidance



Discuss the lifting operation as a team beforehand and in the **pre-start briefing**.



Check the **weather** before and monitor it during the lift.



Ensure the load's **centre of gravity** is vertically below the hook and the hoist rope is vertical.



**All lifting equipment and accessories** must be **maintained, inspected** before use and have an in-date LOLER report of thorough examination.



**Inspect the load and attachment point** before lifting to ensure it is not damaged/distorted.



Check the **load travel path** and landing location for people and obstructions before lifting.



Only use lifting accessories that are in the **lift plan** and **attach where specified**.



Always carry out a **trial lift** to ensure load is secured and balanced.



**Stand away** from loads being lifted in case they move unexpectedly. Never try to steady an unstable load.



Always get **approval from the TWC** for loading onto the ground or any other structures.



Protect accessories from damage. **Quarantine** them if needed.



Only lift loads within the **rated capacity** of the equipment.



Keep the **area tidy and free** from slip, trip and fall hazards.



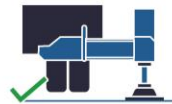
Always **agree and test the communication method** to be used



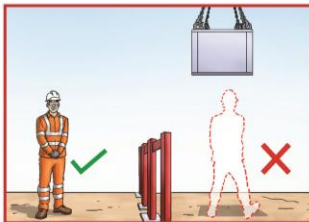
Only **operate remote controls when in a place of safety** and isolate the controls at all other times, e.g. when climbing a ladder.



Always **set up the lifting equipment** according to the **lift plan**.



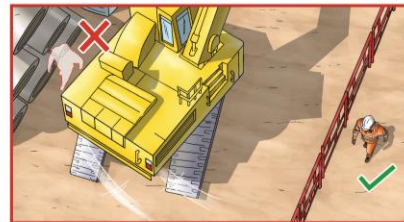
## Don'ts



Never walk or stand under **suspended loads**.



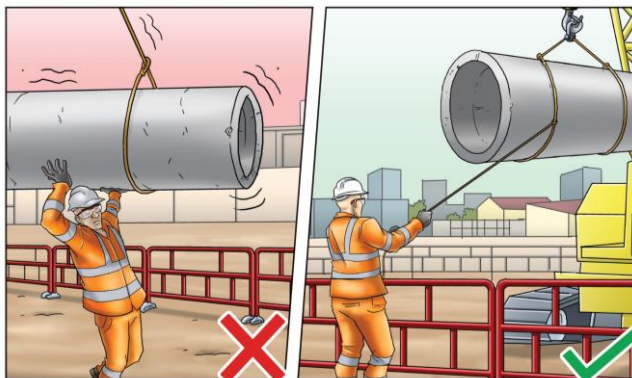
Never put your fingers or any other body parts in any **crush locations**.



Don't put yourself in any potential **crush zones**.

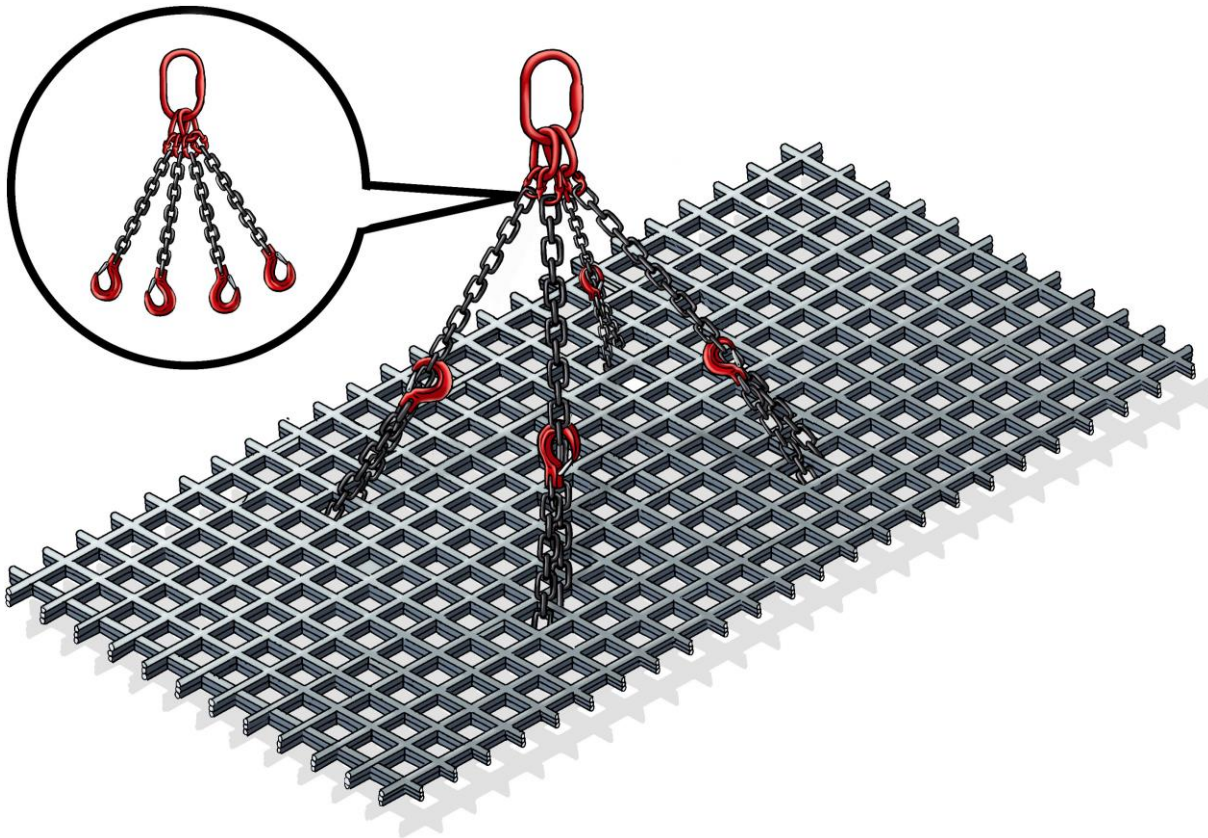


- if you can't see or hear instructions from the slinger/signaller.
- if you have any safety concerns about the lifting operation and speak to the AP/Lift Supervisor.



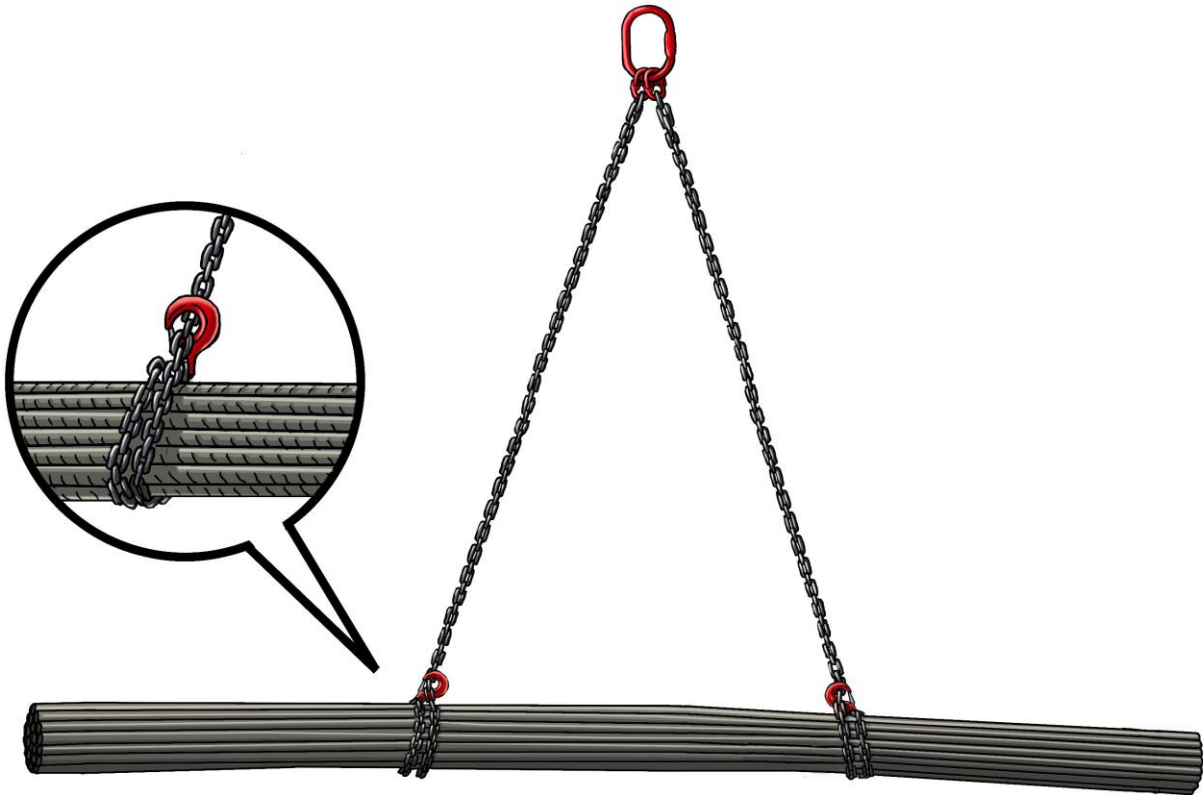
Where it is necessary to use a tag line or push stick to control and guide the load, **ALWAYS** do this from a safe distance.

## Steel square mesh reinforcement



<b>Load size</b>	Up to 4.8m x 2.4m.	<b>Max load weight</b>	<b>1.5t</b>																			
<b>Load weight</b>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="4">Mesh type</th> </tr> <tr> <th>A393</th> <th>A252</th> <th>A193</th> <th>A142</th> </tr> </thead> <tbody> <tr> <td>1 sheet (kg)</td> <td>71</td> <td>46</td> <td>35</td> <td>26</td> </tr> <tr> <td>20 sheets (kg)</td> <td>1,420</td> <td>920</td> <td>700</td> <td>520</td> </tr> </tbody> </table> <p>Other mesh types are available (some considerably heavier than A393) - Consult AP for other mesh sizes.</p>				Mesh type				A393	A252	A193	A142	1 sheet (kg)	71	46	35	26	20 sheets (kg)	1,420	920	700	520
	Mesh type																					
	A393	A252	A193	A142																		
1 sheet (kg)	71	46	35	26																		
20 sheets (kg)	1,420	920	700	520																		
<b>Slinging method</b>	4 leg chain slings, each leg passed through all layers of mesh approx. 1/3 in from each corner, and back up through adjoining hole before being choked.																					
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>																			
1 no. 2.36t min WLL 4 leg chain slings		2.36t – 20% choke	1.89t																			
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°) and hooks are facing out from the load, i.e. safety catches on the outside.</li> <li>• Do not lift from bundle ties.</li> <li>• Check mesh type and pack size before lifting.</li> </ul>																					

## Reinforcement bars (bundled)



<b>Load size</b>	Various lengths up to 12m.		<b>Max load weight</b>	<b>2.0t</b>			
<b>Load weight</b>	Bar diameter (mm)						
		12	16	20	25	32	40
	Weight per m (kg)	0.9	1.6	2.5	3.9	6.3	9.9
	12m length (kg)	10.8	19.2	30.0	46.8	75.6	118.8
	Max number in 2t bundle of 12m length	185	104	66	42	26	16
If the bundle size is bigger than above, consult the AP.							
<b>Slinging method</b>	Double wrap and choke 1/3 in from each end with: 2 leg chain slings, or 2 no. webbing or endless textile slings (attach 2 leg chain slings on top if required, 4.25t min WLL)						
<b>Lifting accessories</b>			<b>WLL x mode factors</b>		<b>Resulting SWL</b>		
1 no. 2.8t min WLL 2 leg chain slings, or 2 no. 2.0t min WLL webbing or endless textile slings			2.8t – 20% choke 2.0t x 1.4 – 20% choke		2.24t 2.24t		
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;math&gt;&lt;90^\circ&lt;/math&gt; (excluded angle &lt;math&gt;&lt;45^\circ&lt;/math&gt;) and hooks are facing out from the load, i.e. safety catches on the outside.</li> <li>• Bundles may have weights on delivery tickets – check before lifting.</li> <li>• Do not lift from bundle ties.</li> <li>• Single trip slings are not to be attached to other loads. After delivery of load, any subsequent lifting of original load to be under specific RA and AP approval, and must not be to extremes of height, depth, or in higher risk environments.</li> <li>• Where possible, always lift bars of the same or similar length to avoid bars coming loose from the bundle.</li> </ul>						

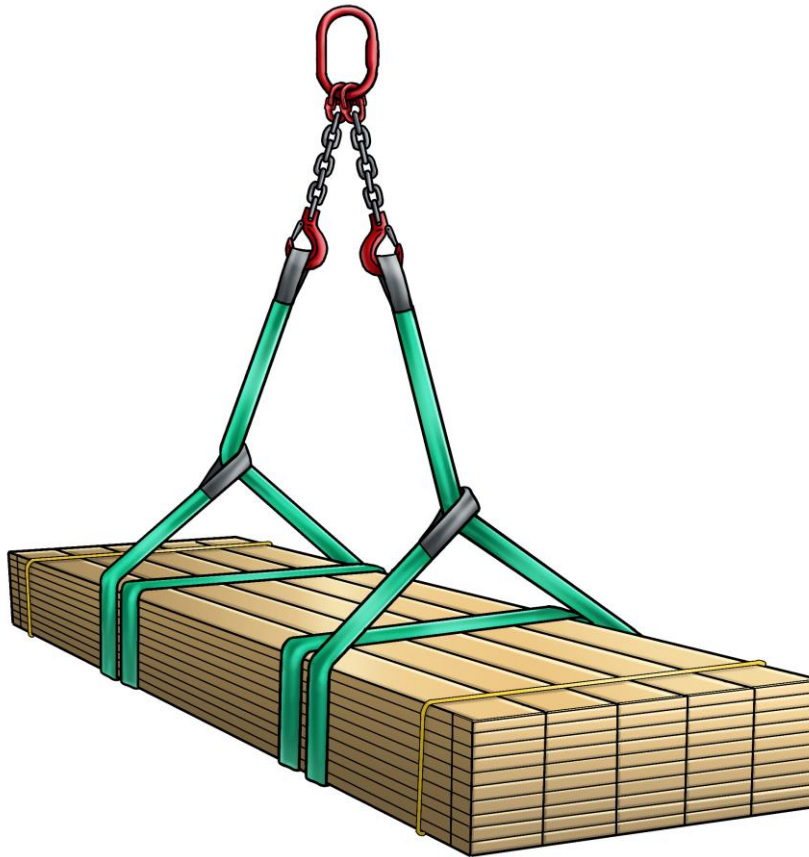


## Scaffold tubes (bundled)



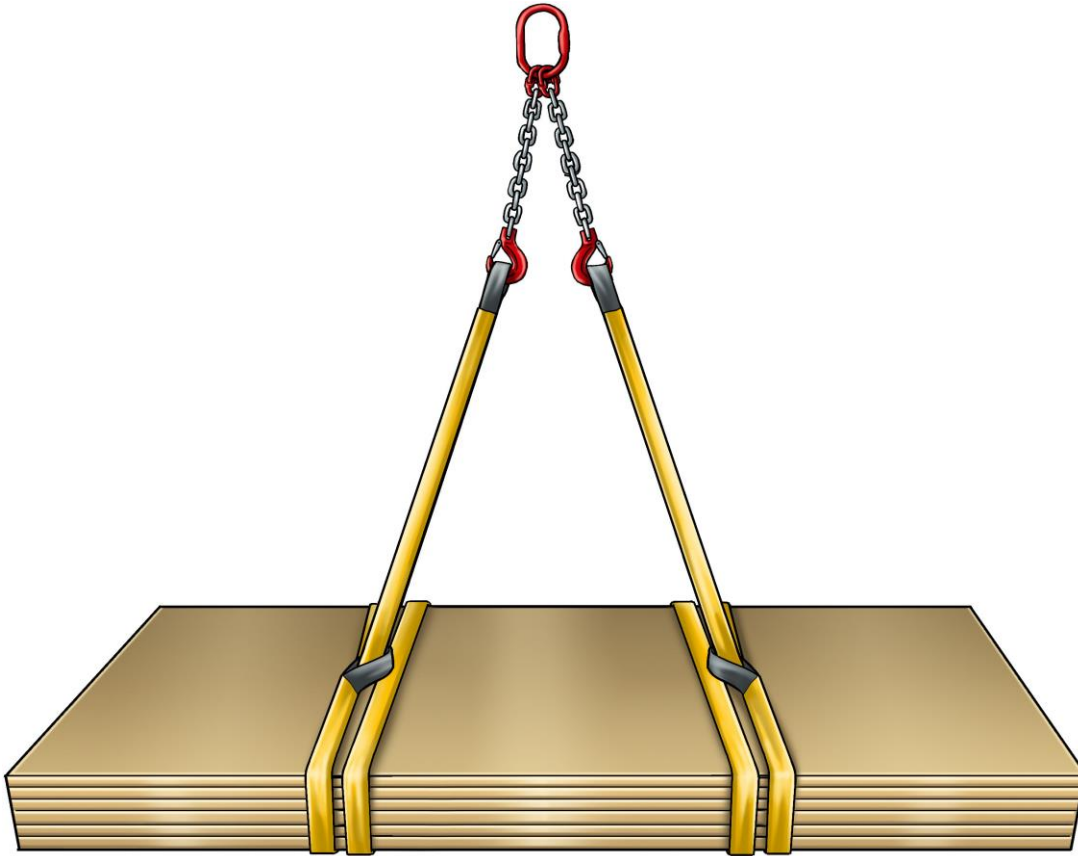
<b>Load size</b>	Various lengths up to 21' (6.4m).	<b>Max load weight</b>	<b>1.8t</b>																			
<b>Load weight</b>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="4">Tube length (m / foot)</th> </tr> <tr> <th>1.5m / 5'</th> <th>3.0m / 10'</th> <th>4.9m / 16'</th> <th>6.4m / 21'</th> </tr> </thead> <tbody> <tr> <td>1 no. tube (kg)</td> <td>6.7</td> <td>13.4</td> <td>21.5</td> <td>28.2</td> </tr> <tr> <td>Bundle of 61no. (kg)</td> <td>408</td> <td>817</td> <td>1,312</td> <td>1,720</td> </tr> </tbody> </table> <p>If the bundle size is bigger than above, consult the AP.</p>				Tube length (m / foot)				1.5m / 5'	3.0m / 10'	4.9m / 16'	6.4m / 21'	1 no. tube (kg)	6.7	13.4	21.5	28.2	Bundle of 61no. (kg)	408	817	1,312	1,720
	Tube length (m / foot)																					
	1.5m / 5'	3.0m / 10'	4.9m / 16'	6.4m / 21'																		
1 no. tube (kg)	6.7	13.4	21.5	28.2																		
Bundle of 61no. (kg)	408	817	1,312	1,720																		
<b>Slinging method</b>	Double wrap and choke 1/3 in from each end with: 2 no. webbing or endless textile slings (attach 2 leg chain slings on top if required, 2.8t min WLL).																					
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>																			
2 no. 2.0t min WLL webbing or endless textile slings		2.0t x 1.4 – 20% choke	2.24t																			
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°).</li> <li>• Bundles may have weights on delivery tickets – check before lifting.</li> <li>• Single trip slings are not to be attached to other loads. After delivery of load, any subsequent lifting of original load to be under specific RA and AP approval, and must not be to extremes of height, depth, or in higher risk environments.</li> <li>• Where possible, lift tubes of the same or similar length to avoid tubes coming loose from the bundle. If tubes are different lengths, ensure all tubes are included in both chokes.</li> <li>• Ensure slings provide sufficient friction to prevent sling movement against the load.</li> </ul>																					

## Scaffold boards



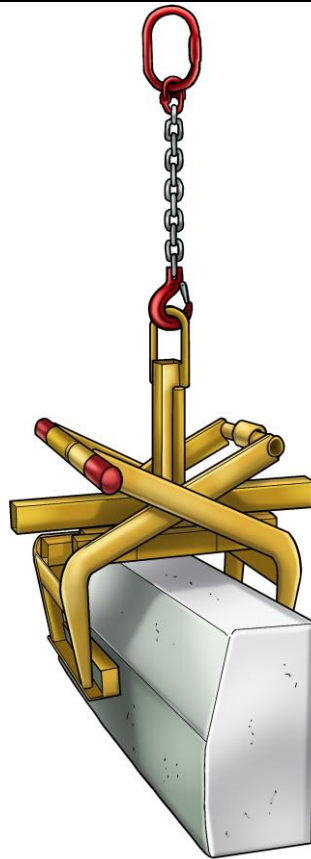
<b>Load size</b>	Various lengths up to 13' (3.9m).	<b>Max load weight</b>	<b>2.0t</b>																			
<b>Load weight</b>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="3">Board length (m / foot)</th> </tr> <tr> <th>2.4m / 8'</th> <th>3.0m / 10'</th> <th>3.9m / 13'</th> </tr> </thead> <tbody> <tr> <td>1 no. board (kg)</td> <td>12.3</td> <td>15.4</td> <td>20.0</td> </tr> <tr> <td>Bundle of 50 weight (kg)</td> <td>615</td> <td>770</td> <td>1,000</td> </tr> <tr> <td>Bundle of 100 weight (kg)</td> <td>1,230</td> <td>1,540</td> <td>2,000</td> </tr> </tbody> </table> <p>The above are for standard 225mm timber boards. For different boards, consult the AP.</p>				Board length (m / foot)			2.4m / 8'	3.0m / 10'	3.9m / 13'	1 no. board (kg)	12.3	15.4	20.0	Bundle of 50 weight (kg)	615	770	1,000	Bundle of 100 weight (kg)	1,230	1,540	2,000
	Board length (m / foot)																					
	2.4m / 8'	3.0m / 10'	3.9m / 13'																			
1 no. board (kg)	12.3	15.4	20.0																			
Bundle of 50 weight (kg)	615	770	1,000																			
Bundle of 100 weight (kg)	1,230	1,540	2,000																			
<b>Slinging method</b>	Double wrap (can be single wrap if still banded) and choke 1/3 in from each end with: 2 no. webbing or endless textile slings (attach 2 leg chain slings on top if required, 2.8t min WLL).																					
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>																			
2 no. 2.0t min WLL webbing or endless textile slings		2.0t x 1.4 – 20% choke	2.24t																			
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°).</li> <li>• Where possible, always lift boards of the same or similar length. If boards are different lengths, ensure all boards are included in both chokes.</li> <li>• If boards are different lengths, ensure both slings are choked inside each end of all boards.</li> </ul>																					

## Sheet timber bales



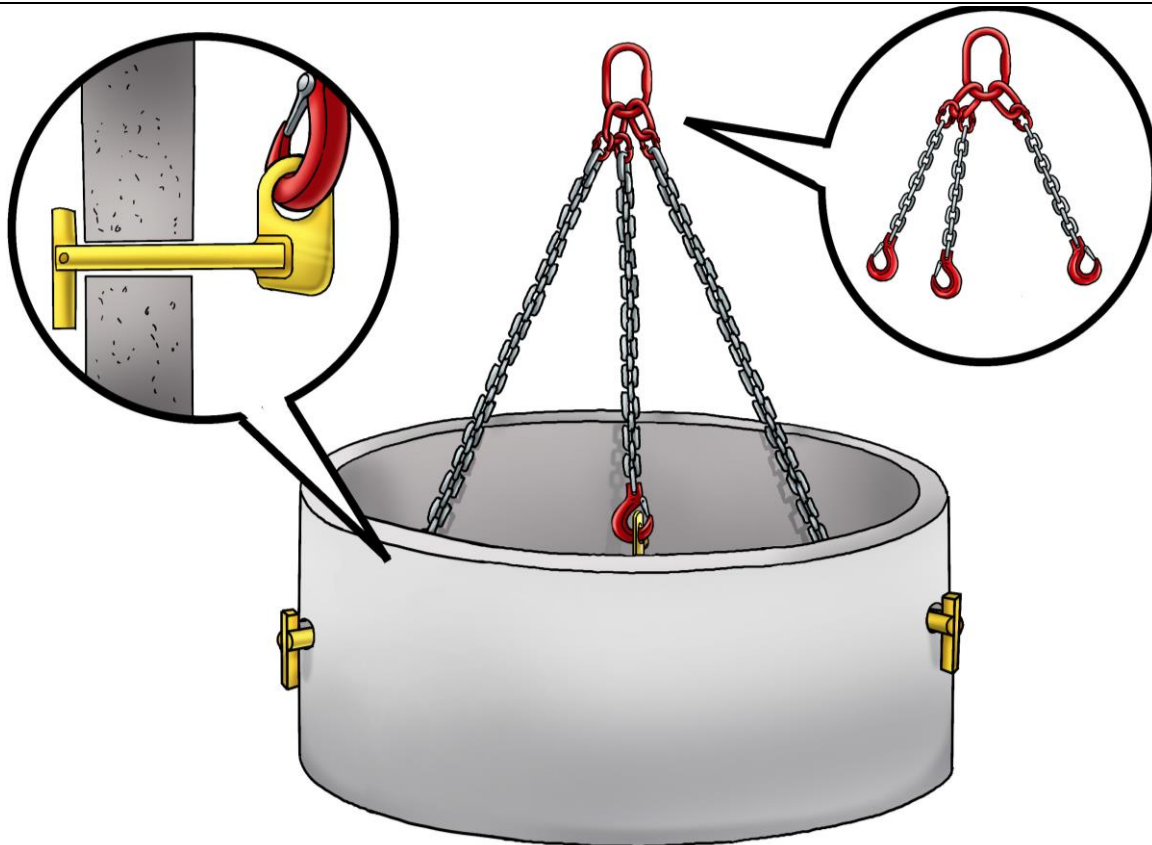
<b>Load size</b>	Up to 2.44m x 1.22m, various thicknesses.	<b>Max load weight</b>	<b>2.4t</b>				
<b>Load weight</b>	Board thickness (mm)						
		6mm	9.5mm	12.5mm	15.5mm	18.5mm	28.5mm
	1 no. board (kg)	12	16	23	27	34	47
	Pack of 50 no. (kg)	613	800	1,150	1,350	1,700	2,350
	Approximate weights above for marine ply (heavy ply, but MDF is heavier). Boards available in numerous timber types and construction (e.g. ply, OSB, MDF etc.). Always confirm board weight on pack label or consult the AP.						
<b>Slinging method</b>	Double wrap (can be single wrap if still banded) and choke 1/3 in from each end with: 2 no. webbing or endless textile slings (attach 2 leg chains on top if required, 2.8t min WLL).						
<b>Lifting accessories</b>			<b>WLL x mode factors</b>		<b>Resulting SWL</b>		
2 no. 3.0t min WLL webbing or endless textile slings			3.0t x 1.4 – 20% choke		3.36t		
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°).</li> <li>• Where possible, lift boards of the same or similar length to avoid boards coming loose from the pack. If boards are different lengths, ensure all boards are included in both chokes.</li> <li>• Monitor flex in boards and ensure boards do not flex to the extent that slings start to move outwards.</li> </ul>						

## Kerbs (using grab)



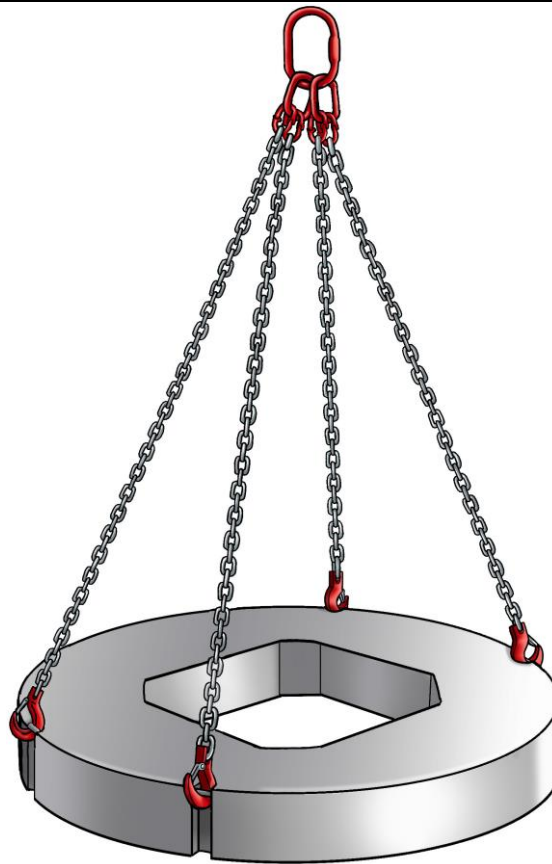
<b>Load size</b>	Various sizes up to HGV (“titan”) kerbs.	<b>Max load weight</b>	<b>0.3t</b>
<b>Load weight</b>	<p>Half batter (HB) and bull nose (BN) kerbs, up to 914mm long x 305mm high, weigh approx. 100kg each.</p> <p>HGV kerbs, up to 1,000mm long x 415mm high, weigh approx. 220kg each.</p> <p>Kerb grabs weigh approx. 15kg.</p> <p>Total weight (max) approx. 235kg.</p>		
<b>Slinging method</b>	Single leg chain sling to kerb grab integral lifting point.		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
1 no. 0.5t min WLL single leg chain sling		0.5t x 1.0	0.5t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure kerb grab is compatible with size of kerb to be lifted.</li> <li>• Ensure kerb is located centrally within kerb grab.</li> <li>• Lifting point must be subject to a thorough visual examination.</li> <li>• Inspect kerb for cracking and damage before lifting.</li> <li>• Never lift loads above head height.</li> </ul>		

## Precast concrete manhole rings



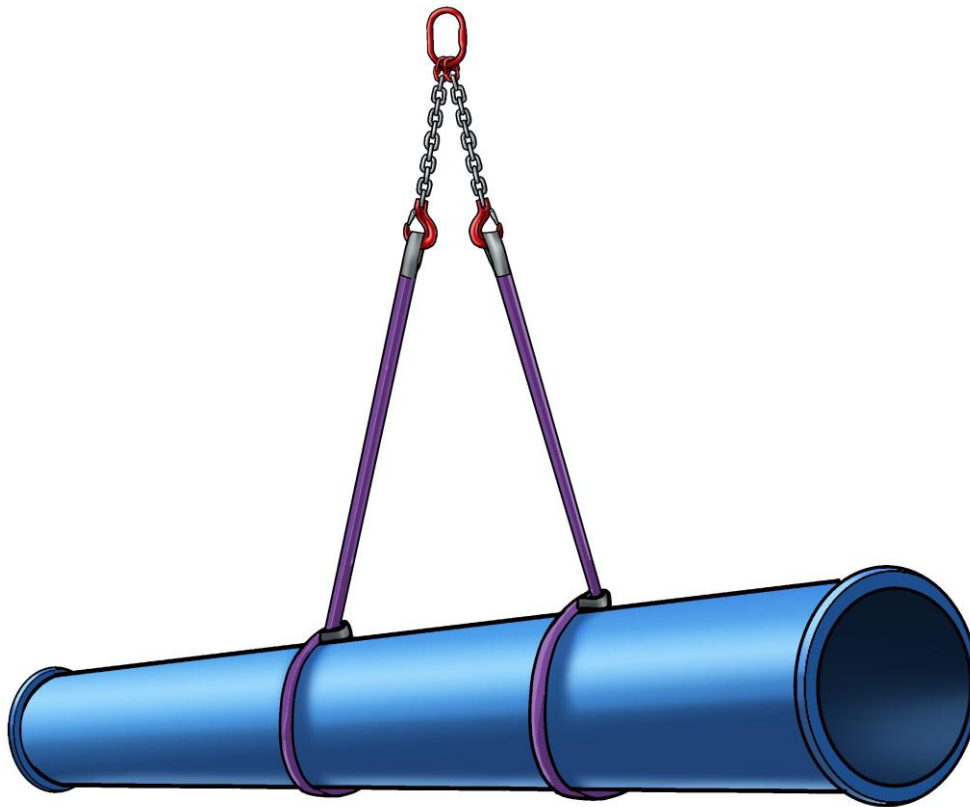
<b>Load size</b>	Various sizes up to 2.4m diameter and 1.0m high.	<b>Max load weight</b>	<b>2.8t</b>																																												
<b>Load weight</b>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="8">Ring diameter (m)</th> </tr> <tr> <th>0.9</th> <th>1.05</th> <th>1.2</th> <th>1.35</th> <th>1.5</th> <th>1.8</th> <th>2.1</th> <th>2.4</th> </tr> </thead> <tbody> <tr> <td>1.0m high weight (kg)</td> <td>520</td> <td>690</td> <td>880</td> <td>1,050</td> <td>1,300</td> <td>1,750</td> <td>2,200</td> <td>2,800</td> </tr> <tr> <td>3 leg chain min WLL (t)</td> <td>1.06</td> <td>1.06</td> <td>1.06</td> <td>1.6</td> <td>1.6</td> <td>2.36</td> <td>2.36</td> <td>3.15</td> </tr> <tr> <td>Lifting pin min WLL (t) (3no. required)</td> <td>0.75t (25mm)</td> <td>0.75t (25mm)</td> <td>0.75t (25mm)</td> <td>0.75t (25mm)</td> <td>0.75t (25mm)</td> <td>1.00t (32mm)</td> <td>1.50t (35mm)</td> <td>2.00t (38mm)</td> </tr> </tbody> </table> <p>Above weights for guide purposes only. Check with supplier/AP.</p>				Ring diameter (m)								0.9	1.05	1.2	1.35	1.5	1.8	2.1	2.4	1.0m high weight (kg)	520	690	880	1,050	1,300	1,750	2,200	2,800	3 leg chain min WLL (t)	1.06	1.06	1.06	1.6	1.6	2.36	2.36	3.15	Lifting pin min WLL (t) (3no. required)	0.75t (25mm)	0.75t (25mm)	0.75t (25mm)	0.75t (25mm)	0.75t (25mm)	1.00t (32mm)	1.50t (35mm)	2.00t (38mm)
	Ring diameter (m)																																														
	0.9	1.05	1.2	1.35	1.5	1.8	2.1	2.4																																							
1.0m high weight (kg)	520	690	880	1,050	1,300	1,750	2,200	2,800																																							
3 leg chain min WLL (t)	1.06	1.06	1.06	1.6	1.6	2.36	2.36	3.15																																							
Lifting pin min WLL (t) (3no. required)	0.75t (25mm)	0.75t (25mm)	0.75t (25mm)	0.75t (25mm)	0.75t (25mm)	1.00t (32mm)	1.50t (35mm)	2.00t (38mm)																																							
<b>Slinging method</b>	3 leg chain slings to manhole lifting pins inserted into manhole ring (or 4 leg chain slings with one leg hooked back to master link).																																														
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>																																												
1 no. 3 leg chain slings as per table 3 no. manhole lifting pins as per table		As per table x 1.0 As per table x 2.1	As per table As per table x 2.1																																												
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°).</li> <li>• Lifting hole must be subject to a thorough visual examination.</li> <li>• Ensure lifting pin is fully engaged and swivel plate is vertical once fitted.</li> <li>• Inspect manhole ring for cracking and damage before lifting.</li> <li>• Only lift manhole rings with sections cut out with approval of AP.</li> </ul>																																														

## Manhole cover slabs



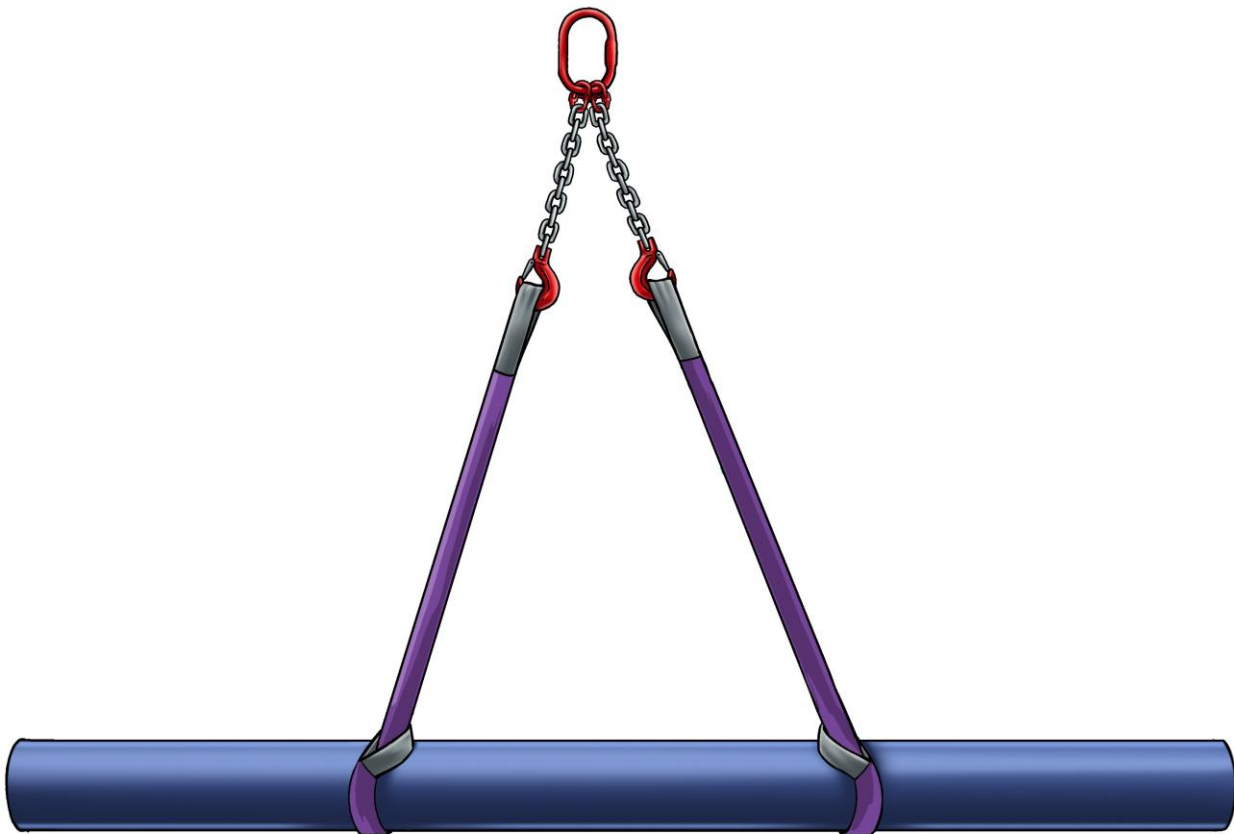
<b>Load size</b>	Various sizes up to 2.4m diameter.	<b>Max load weight</b>	<b>2.2t</b>																																				
<b>Load weight</b>	<table border="1"> <thead> <tr> <th></th> <th colspan="8">Ring diameter (m)</th> </tr> <tr> <th></th> <th>0.9</th> <th>1.05</th> <th>1.2</th> <th>1.35</th> <th>1.5</th> <th>1.8</th> <th>2.1</th> <th>2.4</th> </tr> </thead> <tbody> <tr> <td>Cover slab weight (kg)</td> <td>235</td> <td>235</td> <td>356</td> <td>503</td> <td>890</td> <td>1,208</td> <td>1,745</td> <td>2,200</td> </tr> <tr> <td>4 leg chain min WLL (t)</td> <td>1.06</td> <td>1.06</td> <td>1.06</td> <td>1.06</td> <td>1.06</td> <td>1.6</td> <td>2.36</td> <td>3.15</td> </tr> </tbody> </table> <p>Above weights for guide purposes only. Check with supplier/AP.</p>				Ring diameter (m)									0.9	1.05	1.2	1.35	1.5	1.8	2.1	2.4	Cover slab weight (kg)	235	235	356	503	890	1,208	1,745	2,200	4 leg chain min WLL (t)	1.06	1.06	1.06	1.06	1.06	1.6	2.36	3.15
	Ring diameter (m)																																						
	0.9	1.05	1.2	1.35	1.5	1.8	2.1	2.4																															
Cover slab weight (kg)	235	235	356	503	890	1,208	1,745	2,200																															
4 leg chain min WLL (t)	1.06	1.06	1.06	1.06	1.06	1.6	2.36	3.15																															
<b>Slinging method</b>	4 leg chain slings to integral lifting points on the circumference on the cover slab (if only 3 integral points, back hook one leg to master link). Where cast in anchors are present for lifting, consult the AP to determine the correct type/size of clutches to be used.																																						
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>																																				
1 no. 4 leg chain slings as per table		As per table x 1.0	As per table																																				
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°) and hooks are facing out from the load, i.e. safety catches on the outside..</li> <li>• Lifting points must be subject to a thorough visual examination.</li> <li>• Inspect cover slab for cracking and damage before lifting.</li> <li>• Where lifting anchors / clutches are used, consult the AP.</li> </ul>																																						

## Pipes (ductile iron)



<b>Load size</b>	Generally supplied in 5.5m or 6.0m lengths. Sizes up to 400mm diameter below. Pipes can also be in bundles.	<b>Max load weight</b>	<b>2.9t</b>																																			
<b>Load weight</b>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="8">Pipe diameter (mm)</th> </tr> <tr> <th>80</th> <th>100</th> <th>150</th> <th>200</th> <th>250</th> <th>300</th> <th>350</th> <th>400</th> </tr> </thead> <tbody> <tr> <td>1 no. pipe (5.5m) (kg)</td> <td>91</td> <td>109</td> <td>164</td> <td>221</td> <td>276</td> <td>355</td> <td>438</td> <td>507</td> </tr> <tr> <td>1 no. pipe (6m) (kg)</td> <td>91</td> <td>112</td> <td>164</td> <td>228</td> <td>289</td> <td>368</td> <td>473</td> <td>567</td> </tr> </tbody> </table> <p>Approximate weights only. Confirm pipe weight on label or consult the AP. Where pipes are supplied in banded bundles, multiply the number of pipes in the bundle by individual pipe weight. Max bundle weight (for 400 diameter 5.5m length is approx. 2,900kg).</p>				Pipe diameter (mm)								80	100	150	200	250	300	350	400	1 no. pipe (5.5m) (kg)	91	109	164	221	276	355	438	507	1 no. pipe (6m) (kg)	91	112	164	228	289	368	473	567
	Pipe diameter (mm)																																					
	80	100	150	200	250	300	350	400																														
1 no. pipe (5.5m) (kg)	91	109	164	221	276	355	438	507																														
1 no. pipe (6m) (kg)	91	112	164	228	289	368	473	567																														
<b>Slinging method</b>	<p>Single pipes – choke webbing or endless textile slings approx. 1/3 in from either end of the pipe (attach 2 leg chain slings on top if required, 1.6t min WLL).</p> <p>Bundles – double wrap and choke (can be single wrap if still banded) webbing or endless textile slings approx. 1/3 in from either end (attach 2 leg chain slings on top if required, 4.25t min WLL).</p>																																					
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>																																			
Single pipe – 2 no. 1t min WLL webbing or endless textile slings		1.0t x 1.4 – 20% choke	1.12t																																			
Bundle – 2 no. 3t min WLL webbing or endless textile slings		3.0t x 1.4 – 20% choke	3.36t																																			
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Double wrap pipes where practicable or where lifting to height / depth.</li> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°).</li> <li>• Never lift from bundle bands.</li> <li>• Check the number of pipes in a bundle and determine bundle weight. Also check bundle label for weight displayed on label. If either &gt;2,900kg, consult the AP.</li> <li>• Never lift an incomplete bundle – lift the pipes individually if the bundle is incomplete.</li> <li>• Single pipes must be supported and chocked, when landed, to prevent movement.</li> </ul>																																					

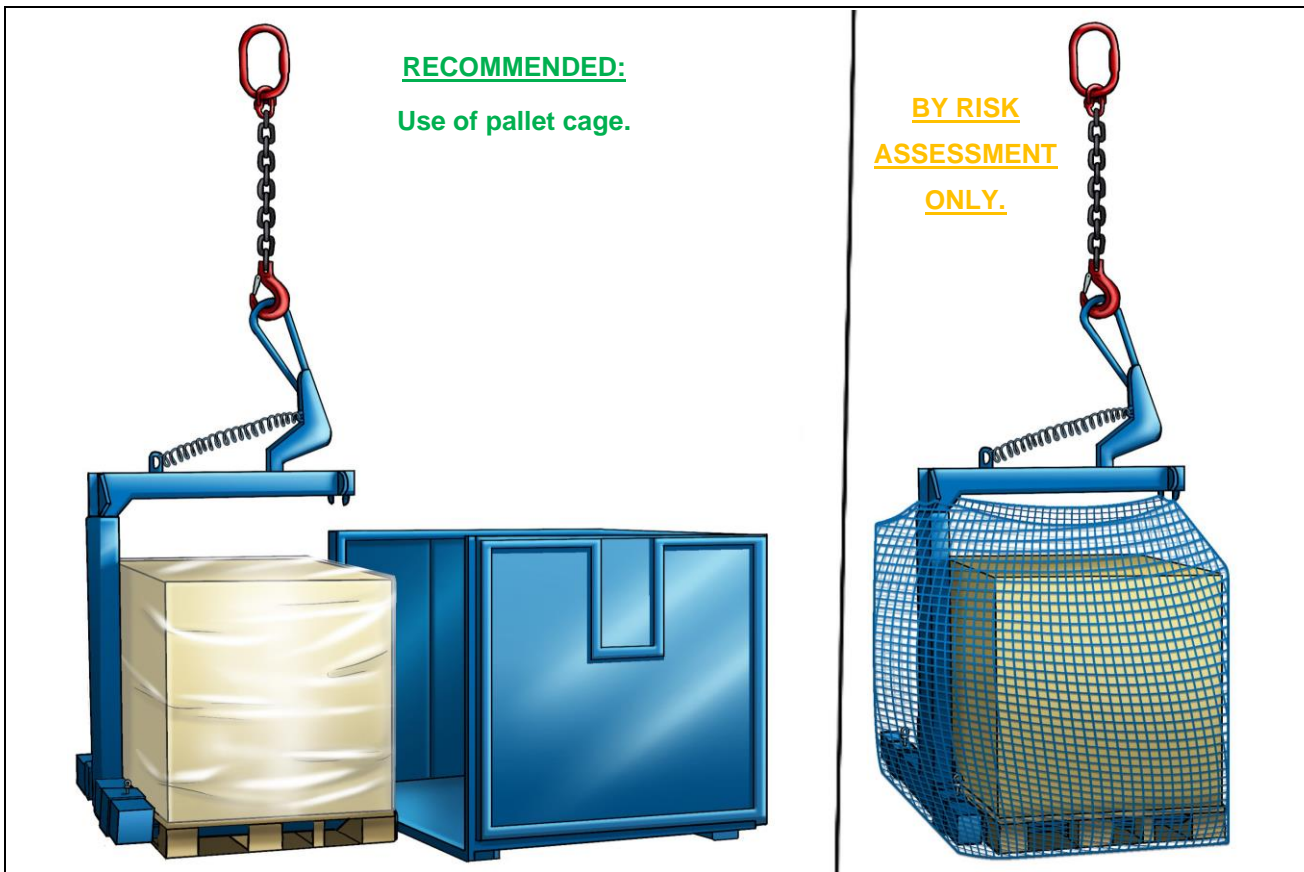
## Pipes (polyethylene)



<b>Load size</b>	Generally supplied in 6.0m or 12.0m lengths. Sizes up to 400mm diameter below. Pipes can also be in bundles.	<b>Max load weight</b>	<b>2.0t</b>																																																																
<b>Load weight</b>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="12">Pipe nominal diameter (outside diameter) (mm)</th> </tr> <tr> <th>90</th> <th>110</th> <th>125</th> <th>160</th> <th>180</th> <th>200</th> <th>225</th> <th>250</th> <th>280</th> <th>315</th> <th>355</th> <th>400</th> </tr> </thead> <tbody> <tr> <td>SDR 11 (16 bar) (kg/m)</td> <td>3.0</td> <td>4.1</td> <td>5.3</td> <td>8.4</td> <td>10.4</td> <td>12.4</td> <td>15.6</td> <td>19.0</td> <td>23.7</td> <td>29.8</td> <td>37.7</td> <td>47.6</td> </tr> <tr> <td>1 no. 6m stick (kg)</td> <td>18</td> <td>25</td> <td>32</td> <td>50</td> <td>62</td> <td>74</td> <td>94</td> <td>114</td> <td>142</td> <td>179</td> <td>226</td> <td>286</td> </tr> <tr> <td>1 no. 12m stick (kg)</td> <td>36</td> <td>50</td> <td>64</td> <td>100</td> <td>124</td> <td>148</td> <td>188</td> <td>228</td> <td>284</td> <td>358</td> <td>452</td> <td>572</td> </tr> </tbody> </table> <p>Approximate weights for SDR 11 (16 bar) black/blue/yellow pipes. Where pipes are supplied in banded bundles, multiply the number of pipes in the bundle by individual pipe weight. Confirm pipe weight on label or consult the AP. Max bundle weight not to exceed 2,000kg.</p>				Pipe nominal diameter (outside diameter) (mm)												90	110	125	160	180	200	225	250	280	315	355	400	SDR 11 (16 bar) (kg/m)	3.0	4.1	5.3	8.4	10.4	12.4	15.6	19.0	23.7	29.8	37.7	47.6	1 no. 6m stick (kg)	18	25	32	50	62	74	94	114	142	179	226	286	1 no. 12m stick (kg)	36	50	64	100	124	148	188	228	284	358	452	572
	Pipe nominal diameter (outside diameter) (mm)																																																																		
	90	110	125	160	180	200	225	250	280	315	355	400																																																							
SDR 11 (16 bar) (kg/m)	3.0	4.1	5.3	8.4	10.4	12.4	15.6	19.0	23.7	29.8	37.7	47.6																																																							
1 no. 6m stick (kg)	18	25	32	50	62	74	94	114	142	179	226	286																																																							
1 no. 12m stick (kg)	36	50	64	100	124	148	188	228	284	358	452	572																																																							
<b>Slinging method</b>	<p>Single pipes – choke webbing or endless textile slings approx. 1/3 in from either end of the pipe (attach 2 leg chain slings on top if required, 1.6t min WLL).</p> <p>Bundles – double wrap and choke (can be single wrap if still banded) webbing or endless textile slings approx. 1/3 in from either end (attach 2 leg chain slings on top if required, 2.1t min WLL).</p>																																																																		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>																																																																
Single pipe – 2 no. 1t min WLL webbing or endless textile slings		1.0t x 1.4 – 20% choke	1.12t																																																																
Bundle – 2 no. 3t min WLL webbing or endless textile slings		3.0t x 1.4 – 20% choke	3.36t																																																																
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Double wrap pipes where practicable or where lifting to height / depth.</li> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°).</li> <li>• Never lift from bundle bands.</li> <li>• Check the number of pipes in a bundle and determine bundle weight. Also check bundle label for weight displayed on label. If either &gt;2,000kg, consult the AP.</li> <li>• Never lift an incomplete bundle – lift the pipes individually if the bundle is incomplete.</li> <li>• Single pipes must be supported and chocked, when landed, to prevent movement.</li> <li>• Lifting of welded together sections is not covered under this item.</li> </ul>																																																																		



## Palletised materials



<b>Load size</b>	To fit on standard pallet.	<b>Max load weight</b>	<b>2.2t</b>
<b>Load weight</b>	<p>Various weights of materials. Check label on goods to ensure materials weight &lt;1.50t.</p> <p>Pallet forks weight approx. 200kg.</p> <p>Pallet cage weight approx. 440kg.</p> <p>Total weight using pallet cage c. 2.14t.</p> <p>When lifting on pallet forks with fork nets, total weight approx. 1.7t.</p>		
<b>Slinging method</b>	<p>Attach single leg chain sling to integral lifting point.</p> <p>Wherever practicable, palletised loads are to be lifted in pallet cages.</p> <p>Where nets are being used, they must be installed to manufacturer's requirements and loads must not be lifted to excessive height or in high-risk environments.</p>		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
1 no. 3.15t min WLL single leg chain sling		3.15t x 1.0	3.15t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Manufacturer's lifting point must be subject to a thorough visual examination.</li> <li>• Use pallet cages wherever practicable. Ensure pallet cage is securely closed before lifting.</li> <li>• Check the load weight on the pallets / delivery ticket to ensure it is within the WLL of the pallet forks and the pallet cage.</li> <li>• Unbanded or unshrink-wrapped materials must only be lifted using pallet cages and not nets.</li> <li>• When using fork nets, ensure they are inspected for damage before use.</li> </ul>		

## Boat skip / tipping skip

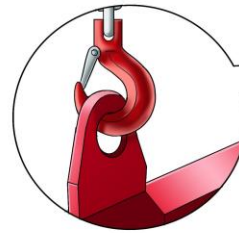


<b>Load size</b>	Various sizes available. The table below is a guide only for a common manufacturer. Check the data plate on the skip.	<b>Max load weight</b>	<b>9.0t</b>																																									
<b>Load weight</b>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="5">Volume (litres)</th> </tr> <tr> <th>500</th> <th>1,000</th> <th>1,500</th> <th>2,000</th> <th>4,000</th> </tr> </thead> <tbody> <tr> <td>Self-weight (kg)</td> <td>216</td> <td>314</td> <td>448</td> <td>507</td> <td>1,000</td> </tr> <tr> <td>SWL (kg)</td> <td>1,300</td> <td>2,600</td> <td>4,000</td> <td>5,300</td> <td>8,000</td> </tr> <tr> <td>Total weight (kg)</td> <td>1,516</td> <td>2,914</td> <td>4,448</td> <td>5,807</td> <td>9,000</td> </tr> <tr> <td>Single leg chain min WLL (t)</td> <td>2.0</td> <td>5.3</td> <td>5.3</td> <td>8.0</td> <td>11.2</td> </tr> <tr> <td>Shackle min WLL (t)</td> <td>2.0</td> <td>3.25</td> <td>6.5</td> <td>8.5</td> <td>12.0</td> </tr> </tbody> </table>				Volume (litres)					500	1,000	1,500	2,000	4,000	Self-weight (kg)	216	314	448	507	1,000	SWL (kg)	1,300	2,600	4,000	5,300	8,000	Total weight (kg)	1,516	2,914	4,448	5,807	9,000	Single leg chain min WLL (t)	2.0	5.3	5.3	8.0	11.2	Shackle min WLL (t)	2.0	3.25	6.5	8.5	12.0
	Volume (litres)																																											
	500	1,000	1,500	2,000	4,000																																							
Self-weight (kg)	216	314	448	507	1,000																																							
SWL (kg)	1,300	2,600	4,000	5,300	8,000																																							
Total weight (kg)	1,516	2,914	4,448	5,807	9,000																																							
Single leg chain min WLL (t)	2.0	5.3	5.3	8.0	11.2																																							
Shackle min WLL (t)	2.0	3.25	6.5	8.5	12.0																																							
<b>Slinging method</b>	Single leg chain sling to integral lifting point. If a shackle is required on top of the skip, the shackle is to be nutted/cotter pinned, not screw type.																																											
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>																																									
1 no. single leg chain sling as per table		As per table x 1.0	As per table																																									
1 no. bow shackle (nutted/cotter pinned) as per table		As per table x 1.0	As per table																																									
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Manufacturer's lifting point and bale arm (through range of motions) must be subject to a thorough visual examination.</li> <li>• Ensure cotter pin is in place on shackle.</li> <li>• Skips that use the same pin when tipping and lifting should be avoided.</li> <li>• Do not overfill skip. Material must be below the fill line.</li> <li>• If used for light materials, netting must be used on top to prevent loss of materials.</li> <li>• People to stand well out of the way during emptying and moving of the bale arm.</li> <li>• Store bale arm down when not in use - Do not rely on gravity keeping the bale arm vertical.</li> </ul>																																											

# Concrete column skip

## RECOMMENDED:

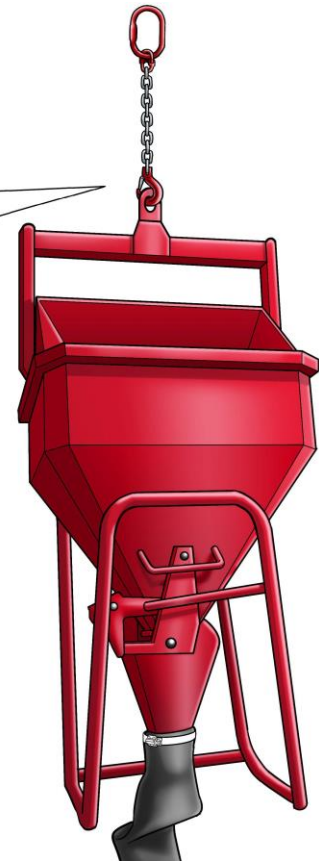
Skip without bale arm.



## NOT RECOMMENDED:

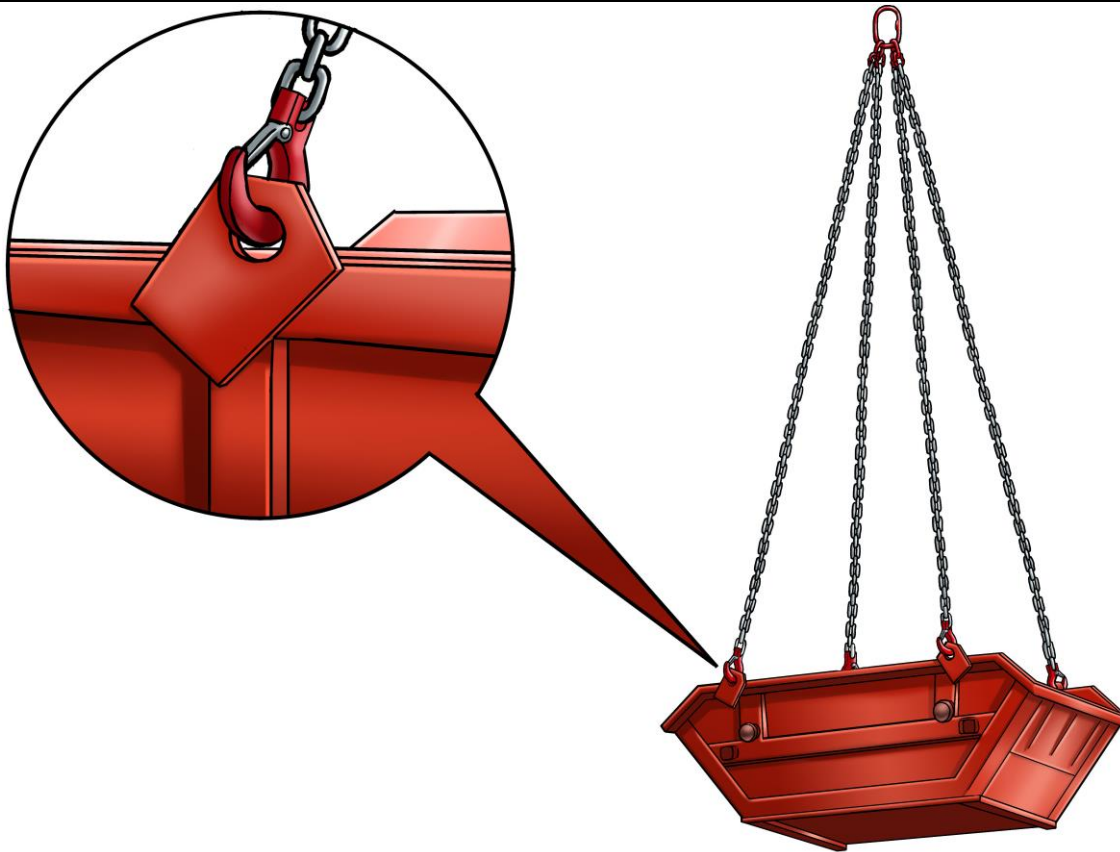
Skip with bale arm.

Skips with bale arms have been involved in fatal accidents when the arm has fallen on people. Only use when unavoidable and risk assessed by the AP. Follow guidance below.



<b>Load size</b>	Various sizes available. The table below is a guide only for a common manufacturer. Check the data label on the skip.	<b>Max load weight</b>	<b>13.5t</b>				
<b>Load weight</b>	Volume (litres)						
		500	1,000	1,500	2,000	3,000	4,000
	Self-weight (kg)	400	500	700	700	1,000	1,500
	WLL (kg)	1,500	3,000	4,500	6,000	9,000	12,000
	Total weight (kg)	1,900	3,500	5,200	6,700	10,000	13,500
	2 leg chain sling WLL (t) – <b>NO BALE ARM</b>	2.8	4.25	7.5	11.2	14.0	16.0
Single leg chain WLL (t) – <b>BALE ARM</b>	3.15	5.3	8.0	8.0	12.5	16.0	
<b>Slinging method</b>	<p><b>No bale arm skip:</b> 2 leg chain slings to integral lifting points.</p> <p><b>Bale arm skip:</b> Single leg chain sling to integral lifting point.</p> <p>Any shackles required is to be nutted/cotter pinned, not screw type. Capacity of any shackle required to be determined by a competent person.</p>						
<b>Lifting accessories</b>		<b>WLL x mode factors</b>		<b>Resulting SWL</b>			
1 no. 2 leg chain slings as per table – <b>NO BALE ARM SKIP</b>		As per table x 1.0		As per table			
1 no. single leg chain sling as per table – <b>BALE ARM SKIP</b>		As per table x 1.0		As per table			
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>Lifting point(s) and bale arm must be thoroughly inspected before use.</li> <li>Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°).</li> <li>Do not overfill skip. Material must be below the fill line.</li> <li>Stand away during moving of the bale arm. During filling, bale arm must remain attached to the crane.</li> <li>Store bale arm down when skip not in use (or secure by chain for transportation).</li> <li>Check the Tremie pipe to ensure it is securely fitted and the jubilee clip is tight and undamaged. Make sure the Tremie pipe is folded and tied back when travelling.</li> </ul>						

## Crane liftable skip



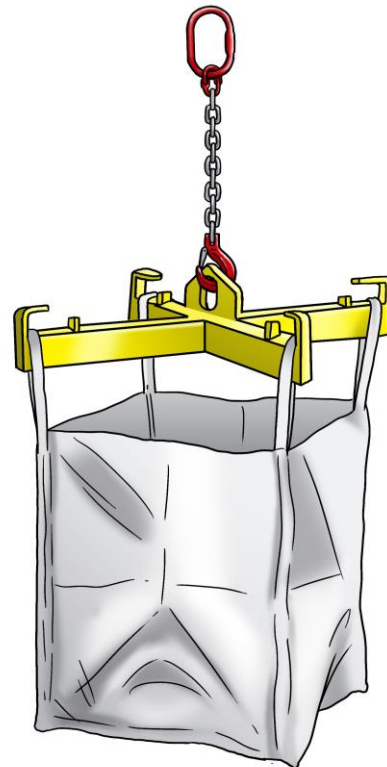
<b>Load size</b>	8-yard builders skip.	<b>Max load weight</b>	<b>7.3t</b>
<b>Load weight</b>	Dependant on fill material and volume. Worst case to fill line. Check details on data plate. Skip self-weight = 840kg SWL = 6,400kg Total weight of full skip = 7,240kg		
<b>Slinging method</b>	4 leg chain slings to manufacturer's lifting points (use bow shackles, if required, to attach to lifting points).		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
1 no. 11.2t min WLL 4 leg chain slings		11.2t x 1.0	11.2t
4 no. 8.5t min WLL bow shackle		8.5t x 0.7 x 2.1	12.5t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;math&gt;&lt;90^\circ&lt;/math&gt; (excluded angle &lt;math&gt;&lt;45^\circ&lt;/math&gt;) and hooks are facing out from the load, i.e. safety catches on the outside.</li> <li>• Skip must be certified for lifting (other than by skip wagon).</li> <li>• Do not use side lugs for lifting unless with specific lifting frame.</li> <li>• Do not overfill skip. Material must be below the fill line. 'Greedy boards' not to be used.</li> <li>• If used for light materials, netting must be used on top to prevent loss of materials.</li> <li>• Thoroughly inspect skip and lifting points for damage (rust, holes, damaged edges etc.). If full, inspect bottom as soon as reasonably practicable, and before lifting to extreme height.</li> </ul>		

## Bulk bags



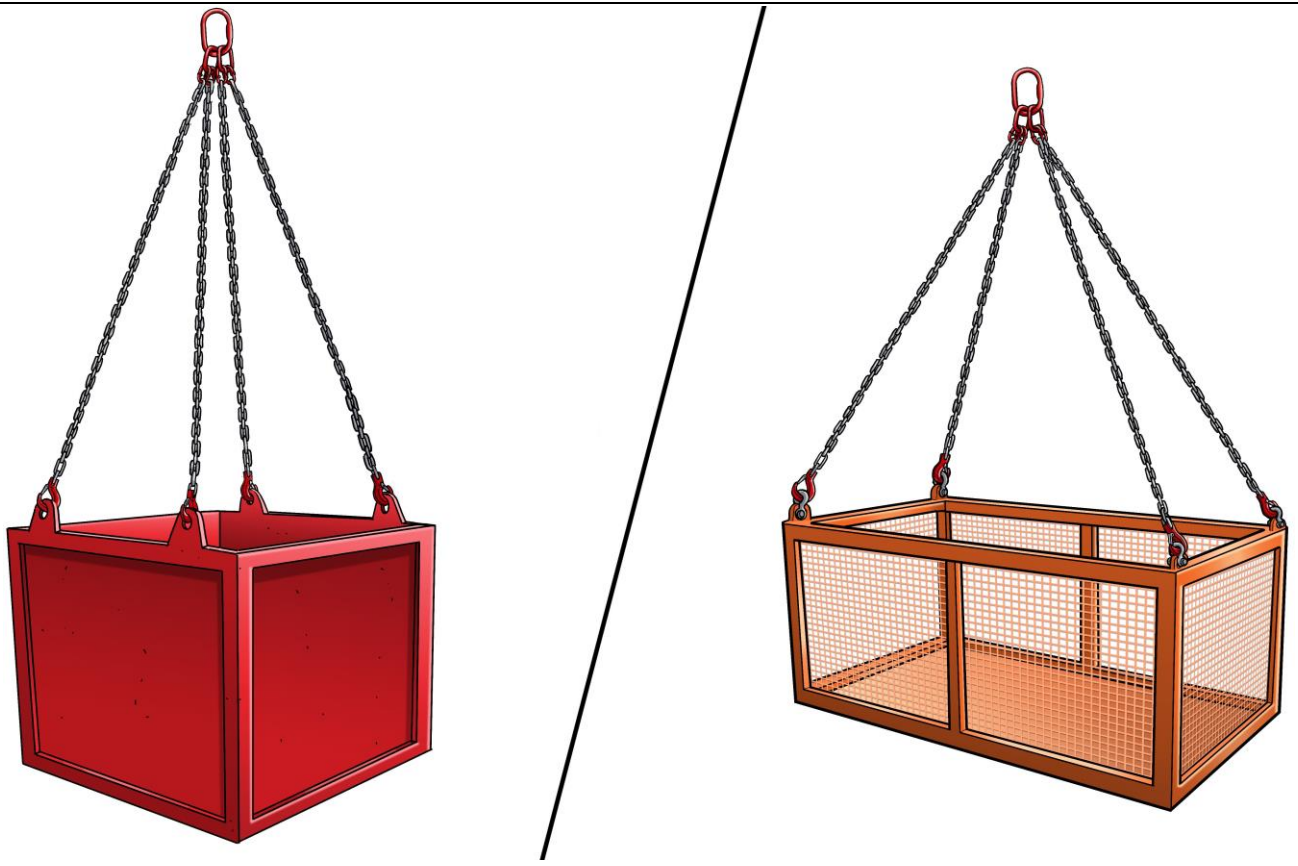
### RECOMMENDED:

Subject to RA, consider secondary protection, for example lifting within a goods cage when lifting to height or in high-risk environments.



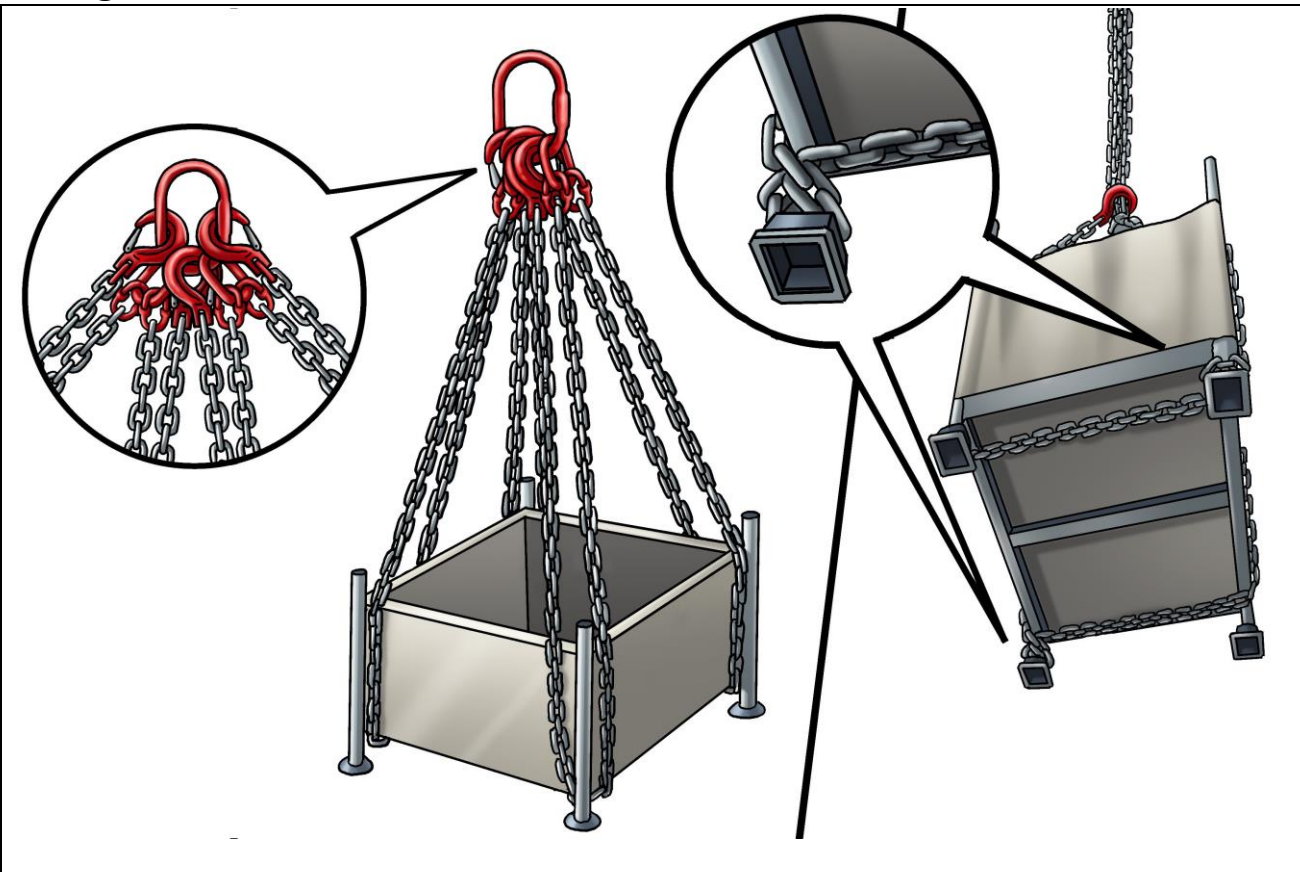
<b>Load size</b>	Standard bulk bag size = 1m <sup>3</sup> .	<b>Max load weight</b>	<b>1.1t</b>
<b>Load weight</b>	Not to exceed rated capacity of the bag (generally 1t SWL). Lifting frame, where used, self-weight approx. 100kg.		
<b>Slinging method</b>	4 leg chain slings with a hook attached to each lifting loop. Chain legs need to be sufficiently long to keep lifting loops close to vertical. When using a lifting frame, a single leg chain sling is to be used.		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
1 no. 1.6t min WLL 4 leg chain slings, or 1 no. 1.5t min WLL 1 leg chain sling to frame		1.6t x 1.0 1.5t x 1.0	1.6t 1.5t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• <b>Single use bags (marked factor of safety = 5:1)</b> – Only to be used for a single fill, e.g. the material delivered. Lifting should only be to minimal height.</li> <li>• <b>Multiple use bags (marked factor of safety = 6:1, 7:1, 8:1 etc.)</b> – The bags can be used for multiple fills but must be inspected before each use (recorded inspection regime required).</li> <li>• Lifting points must be subject to a thorough visual examination.</li> <li>• Do not fit gather lifting loops onto one hook.</li> <li>• Take care to inspect bags which have been stood for a period in case of degradation.</li> <li>• Only to be used for the designed contents, i.e. granular material only, no sharp items.</li> </ul>		

## Goods cage (up to 5,000kg SWL)



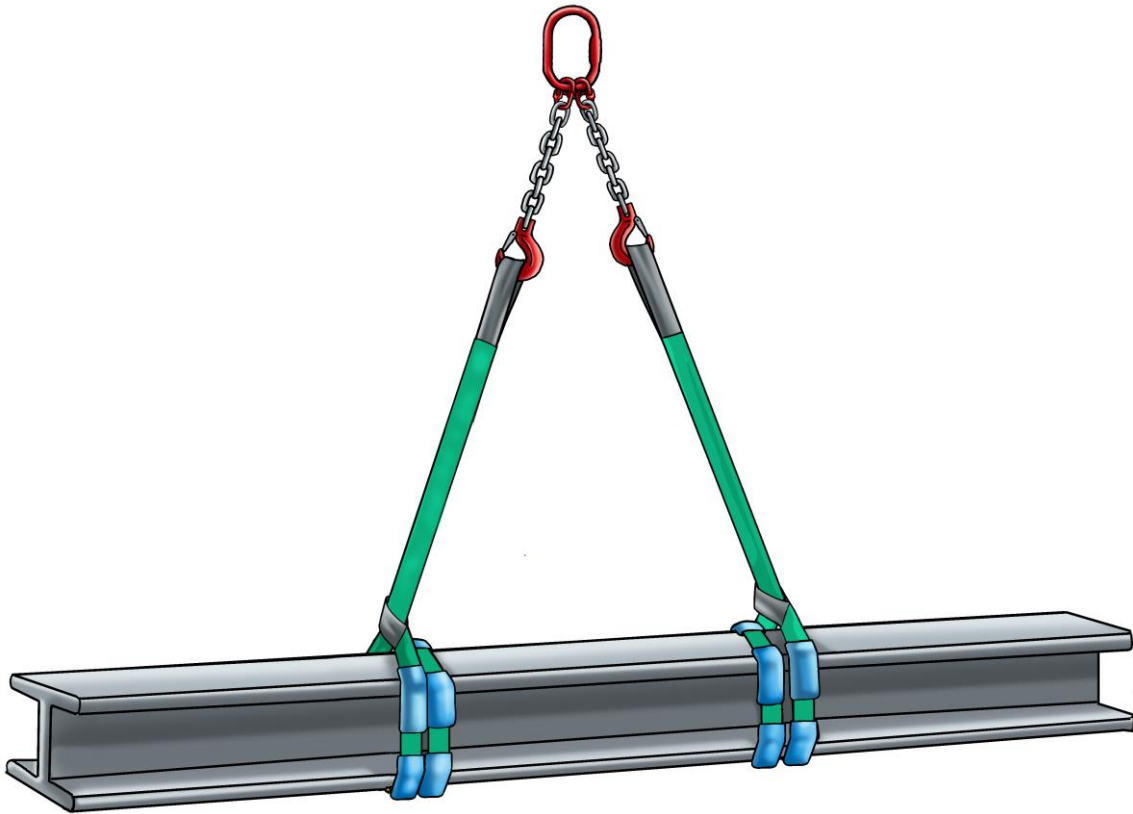
<b>Load size</b>	Various sizes available. The table below is a guide only for a common manufacturer. Check the data plate on the skip.	<b>Max load weight</b>	<b>6.1t</b>																	
<b>Load weight</b>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">SWL (kg)</th> </tr> <tr> <th>3,000</th> <th>5,000</th> </tr> </thead> <tbody> <tr> <td>Self-weight (kg)</td> <td>500</td> <td>1,110</td> </tr> <tr> <td>Total weight (kg)</td> <td>3,500</td> <td>6,110</td> </tr> <tr> <td>4 leg chain min WLL (t)</td> <td>4.25</td> <td>11.2</td> </tr> <tr> <td>4no. bow shackle min WLL (t)</td> <td>3.25</td> <td>4.75</td> </tr> </tbody> </table>				SWL (kg)		3,000	5,000	Self-weight (kg)	500	1,110	Total weight (kg)	3,500	6,110	4 leg chain min WLL (t)	4.25	11.2	4no. bow shackle min WLL (t)	3.25	4.75
	SWL (kg)																			
	3,000	5,000																		
Self-weight (kg)	500	1,110																		
Total weight (kg)	3,500	6,110																		
4 leg chain min WLL (t)	4.25	11.2																		
4no. bow shackle min WLL (t)	3.25	4.75																		
<b>Slinging method</b>	4 leg chain slings to manufacturer's lifting points (use bow shackles, if required, to attach to lifting points).																			
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>																	
1 no. 4 leg chain slings as per table 4 no. bow shackles as per table		WLL x 1.0 WLL x 0.7 x 2.1	WLL x 1.0 WLL x 0.7 x 2.1																	
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>Ensure leg length is sufficient to keep included angle &lt;math&gt;&lt;90^\circ&lt;/math&gt; (excluded angle &lt;math&gt;&lt;45^\circ&lt;/math&gt;) and hooks are facing out from the load, i.e. safety catches on the outside.</li> <li>If lifting accessories are integral to the cage, ensure any shackles are securely fastened (e.g. nutted / cotter pinned) and are thoroughly examined / inspected before lifting.</li> <li>Manufacturer's lifting points must be subject to a thorough visual examination.</li> <li>Do not overfill cage. Material must be below the sides. 'Greedy boards' not to be used.</li> <li>If used for light materials, netting must be used on top to prevent loss of materials.</li> <li>For repetitive lifting, all shackles should be nutted/cotter pinned not screw type.</li> </ul>																			

# Stillage



<b>Load size</b>	Approx. 1.0m x 1.0m x 0.7m.	<b>Max load weight</b>	<b>1.1t</b>
<b>Load weight</b>	Stillage weight approx. 100kg. Stillage SWL generally 1t. Check stillage for SWL. Do not exceed SWL of stillage. Total load weight up to approx. 1,100kg.		
<b>Slinging method</b>	Preferred method: 1 no. 2 leg chain slings, each leg passed under stillage, wrapped around a corner post (wrap opposite corner posts), then choked, or Alternative method: 1 no. 4 leg chain slings, each leg cradled behind corner post and hooked back to master link.		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
1 no. 1.6t min WLL 2 leg chain slings, or 1 no. 1.6t min WLL 4 leg chain slings		1.6t – 20% choke 1.6t	1.28t 1.6t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°) and hooks are facing out from the load, i.e. safety catches on the outside.</li> <li>Loads in stillages must be evenly distributed and not stacked above the sides.</li> <li>Check stillage for damage before lifting.</li> <li>Beware of rusted bases – check base of stillage for integrity. If in doubt don't lift.</li> <li>Stillages are only to be lifted individually, not as stacks.</li> <li>Where masterlinks are not large enough to safely back hook the sling legs to, the slings can be choked back onto the sling leg.</li> </ul>		

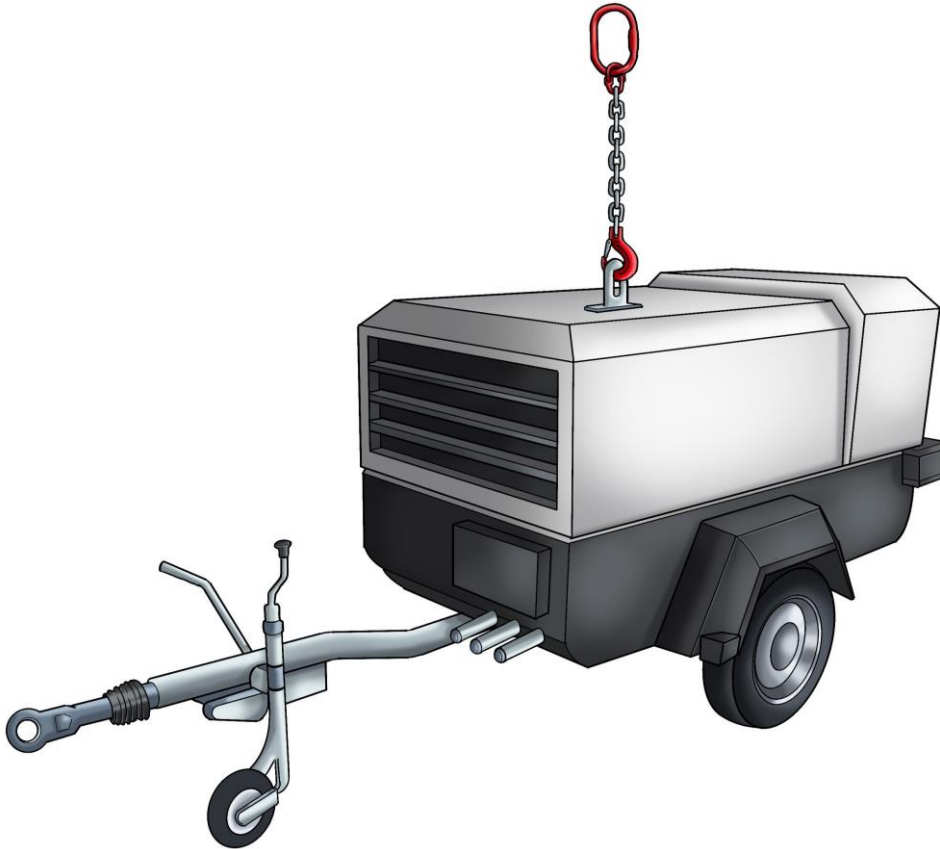
## Steel beams



<b>Load size</b>	Various sizes and lengths up to 10m.	<b>Max load weight</b>	<b>1.7t</b>																																				
<b>Load weight</b>	<table border="1"> <thead> <tr> <th></th> <th colspan="8">Beam depth (mm)</th> </tr> <tr> <th></th> <th>152</th> <th>178</th> <th>203</th> <th>254</th> <th>305</th> <th>356</th> <th>406</th> <th>457</th> </tr> </thead> <tbody> <tr> <td>Weight per m (kg)</td> <td>16.0</td> <td>19.0</td> <td>30.0</td> <td>43.0</td> <td>54.0</td> <td>67.1</td> <td>85.3</td> <td>161.4</td> </tr> <tr> <td>10m length (kg)</td> <td>160</td> <td>190</td> <td>300</td> <td>430</td> <td>540</td> <td>671</td> <td>853</td> <td>1,614</td> </tr> </tbody> </table> <p>The above are for the maximum Universal Beam (UB) sizes in the respective depths. Beams are available in various sizes. Always check the weight before lifting and consult the AP if required.</p>				Beam depth (mm)									152	178	203	254	305	356	406	457	Weight per m (kg)	16.0	19.0	30.0	43.0	54.0	67.1	85.3	161.4	10m length (kg)	160	190	300	430	540	671	853	1,614
	Beam depth (mm)																																						
	152	178	203	254	305	356	406	457																															
Weight per m (kg)	16.0	19.0	30.0	43.0	54.0	67.1	85.3	161.4																															
10m length (kg)	160	190	300	430	540	671	853	1,614																															
<b>Slinging method</b>	Double wrap and choke 1/3 in from each end with: 2 leg chain slings, or 2 no. webbing or endless textile slings (attach 2 leg chain slings on top if required, 2.1t min WLL).																																						
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>																																				
1 no. 2.12t min WLL 2 leg chain slings, or 2 no. 2.0t min WLL webbing or endless textile slings		2.12t – 20% choke 2.0t x 1.4 – 20% choke	1.70t 2.24t																																				
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°).</li> <li>• Ensure weight of section is known prior to lifting.</li> <li>• Ensure protection is used to prevent damage to soft slings from sharp edges.</li> <li>• Sections only to be lifted individually.</li> <li>• Ensure all loose items are removed from the load prior to lifting.</li> </ul>																																						

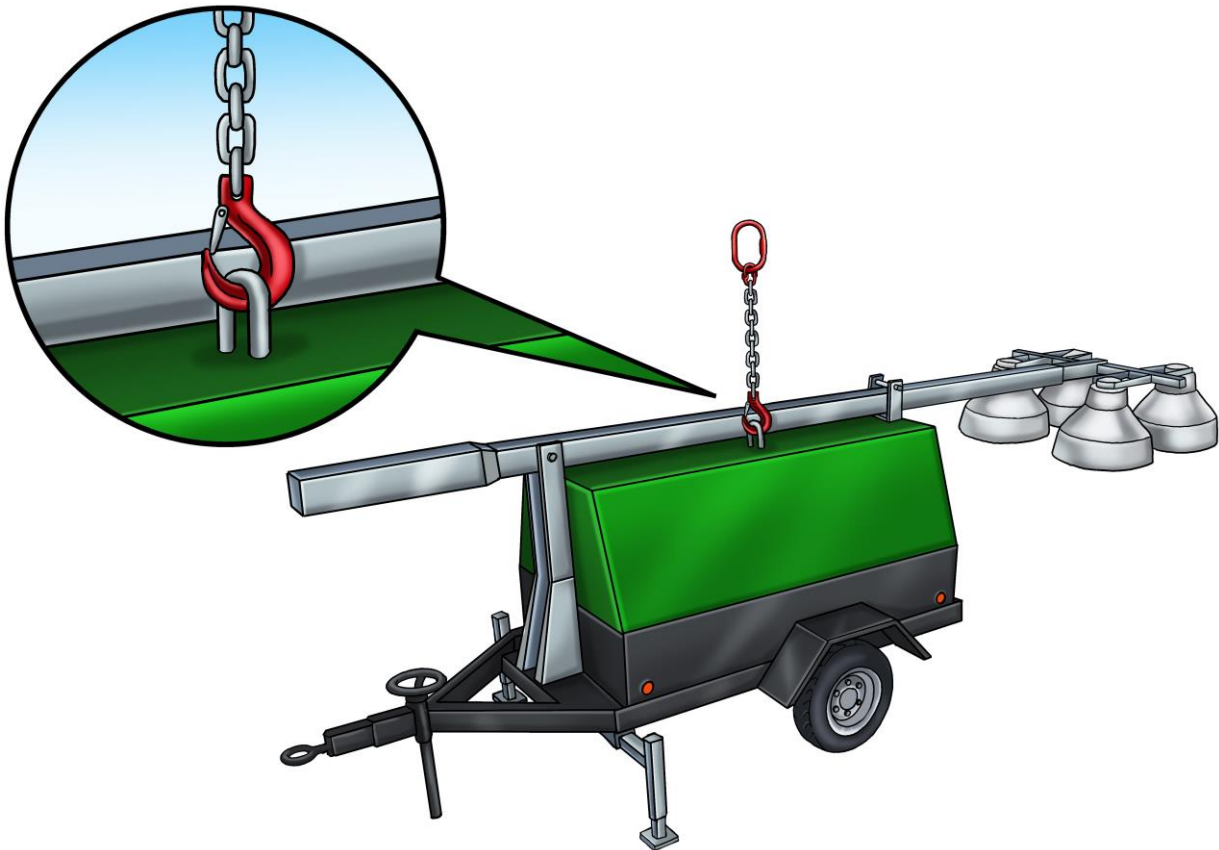


# Towable compressor



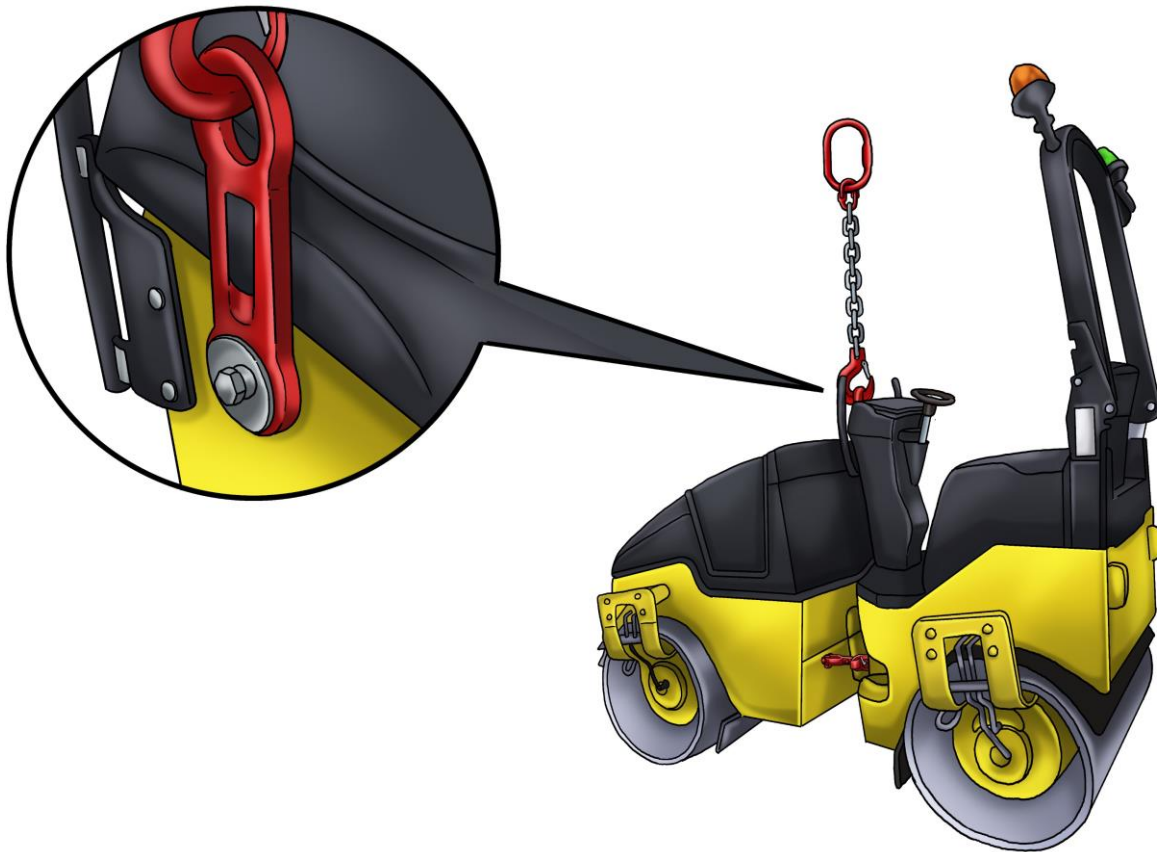
<b>Load size</b>	Various sizes up to c. 900kg. Check the data label on the plant.	<b>Max load weight</b>	<b>0.9t</b>																		
<b>Load weight</b>	<table border="1" data-bbox="376 1267 1286 1370"> <thead> <tr> <th></th> <th colspan="5">Model (Atlas Copco specific)</th> </tr> <tr> <th></th> <th>XAS 38</th> <th>XAS 48</th> <th>XAS 58</th> <th>XAS 68</th> <th>XAS 88</th> </tr> </thead> <tbody> <tr> <td>Plant weight (kg)</td> <td>600</td> <td>850</td> <td>750</td> <td>850</td> <td>850</td> </tr> </tbody> </table> <p>Check data plate for weight. Above weights for guide purposes only.</p>				Model (Atlas Copco specific)						XAS 38	XAS 48	XAS 58	XAS 68	XAS 88	Plant weight (kg)	600	850	750	850	850
	Model (Atlas Copco specific)																				
	XAS 38	XAS 48	XAS 58	XAS 68	XAS 88																
Plant weight (kg)	600	850	750	850	850																
<b>Slinging method</b>	Single leg chain sling to integral lifting point. Check the integral lifting point is intended for lifting with identifying stickers / manual.																				
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>																		
1 no. 1.12t min WLL single leg chain sling		1.12t x 1.0	1.12t																		
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Manufacturer’s lifting point must be subject to a thorough visual examination.</li> <li>• A sweep for loose material to be conducted during the test lift.</li> <li>• Check weight on plant data plate before lifting.</li> </ul>																				

## Lighting tower



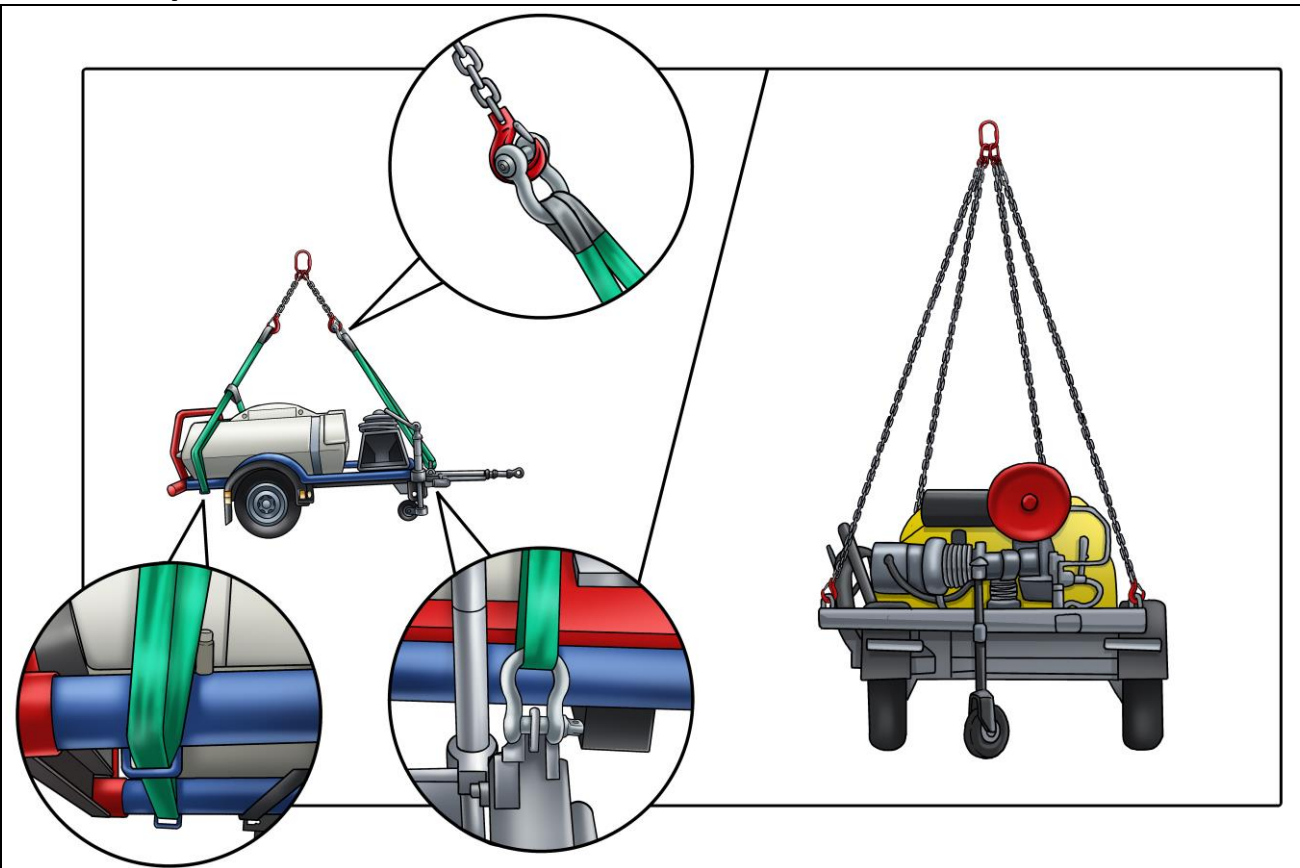
<b>Load size</b>	Various sizes up to 9m mast VT type. Check the data label on the plant.	<b>Max load weight</b>	<b>1.3t</b>
<b>Load weight</b>	Check the plant data plates for specific model weight. VT 1 / VT Hybrid with 9m mast extension weigh approx. 1,250kg.		
<b>Slinging method</b>	Single leg chain sling to integral lifting point. Check the integral lifting point is intended for lifting with identifying stickers / manual.		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
1 no. 1.5t min WLL single leg chain sling		1.5t x 1.0	1.5t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Manufacturers lifting point must be subject to a thorough visual examination.</li> <li>• Check weight on plant data plate before lifting.</li> <li>• Ensure the mast and support legs are fully retracted and secured (i.e. in transport position) before lifting.</li> </ul>		

## Ride on roller



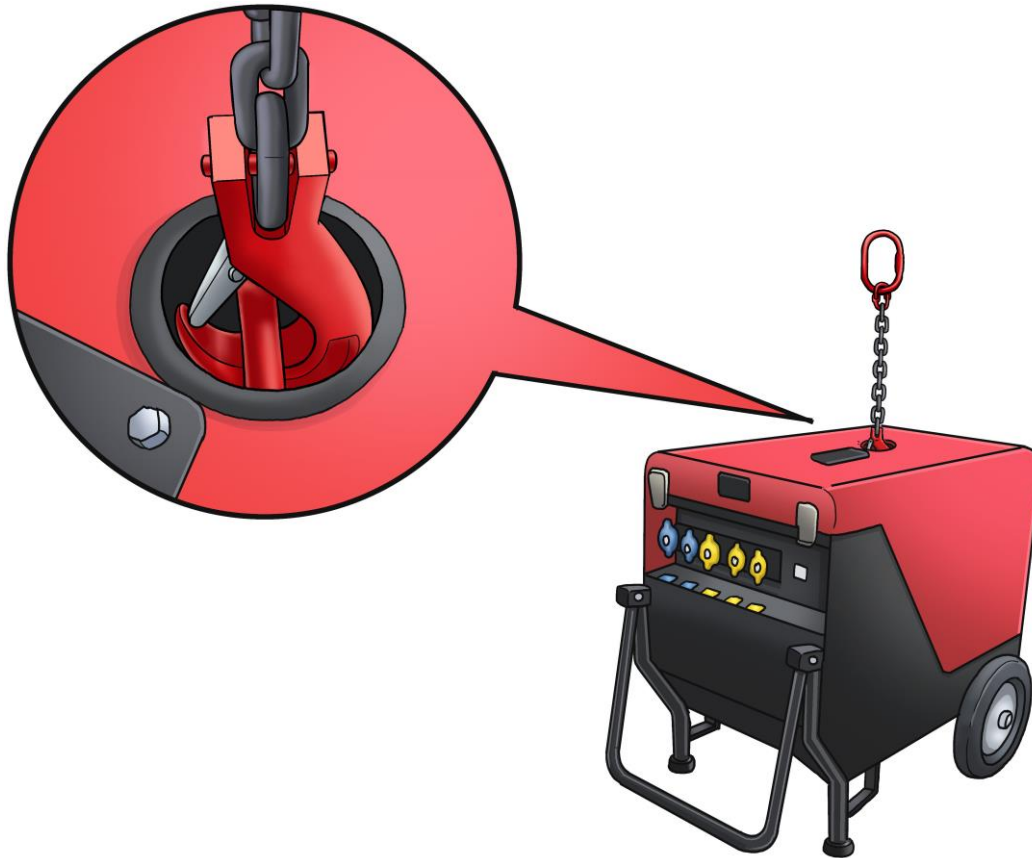
<b>Load size</b>	Various sizes. Common manufacturer, Bomag, has sizes from 800mm – 1,380mm width. Check the data label on the plant.	<b>Max load weight</b>	<b>5.5t</b>																											
<b>Load weight</b>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="6">Model (Bomag specific)</th> </tr> <tr> <th>BW80AD</th> <th>BW90AD</th> <th>BW100AD</th> <th>BW120AD</th> <th>BW135AD</th> <th>BW138AD</th> </tr> </thead> <tbody> <tr> <td>Plant weight (kg)</td> <td>1,900</td> <td>1,900</td> <td>3,500</td> <td>3,650</td> <td>5,500</td> <td>5,500</td> </tr> <tr> <td>Single leg chain min WLL (t)</td> <td>3.15</td> <td>3.15</td> <td>5.3</td> <td>5.3</td> <td>8.0</td> <td>8.0</td> </tr> </tbody> </table> <p>Check data plate for weight (check with supplier if additional ROPS/FOPS are installed as weight may not be included). Above weights for guide purposes only.</p>				Model (Bomag specific)						BW80AD	BW90AD	BW100AD	BW120AD	BW135AD	BW138AD	Plant weight (kg)	1,900	1,900	3,500	3,650	5,500	5,500	Single leg chain min WLL (t)	3.15	3.15	5.3	5.3	8.0	8.0
	Model (Bomag specific)																													
	BW80AD	BW90AD	BW100AD	BW120AD	BW135AD	BW138AD																								
Plant weight (kg)	1,900	1,900	3,500	3,650	5,500	5,500																								
Single leg chain min WLL (t)	3.15	3.15	5.3	5.3	8.0	8.0																								
<b>Slinging method</b>	Single leg chain sling to integral lifting point. Check the integral lifting point is intended for lifting with identifying stickers / manual.																													
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>																											
1 no. single leg chain sling as per table		As per table x 1.0	As per table																											
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>Manufacturers lifting point must be subject to a thorough visual examination.</li> <li>A sweep for loose material to be conducted during the test lift.</li> <li>Check weight on plant data plate before lifting.</li> <li>Ensure the roller is in a straight line, not articulated, before lifting.</li> <li>Ensure locking bar/pin is in place to stop movement at the middle joint during lifting.</li> </ul>																													

## Towable pressure washer



<b>Load size</b>	Various sizes up to 1,100 litres capacity (water tank). Check the data label on the plant.	<b>Max load weight</b>	<b>1.7t</b>
<b>Load weight</b>	Check the plant data plates for specific model weight. Check the capacity of the water tank and add this to the empty plant weight (1 litre of water = 1 kg). 1,100 litre capacity towable pressure washer weighs approx. 600kg (empty) or 1,700kg (full).		
<b>Slinging method</b>	2 no. webbing or endless textile slings, one sling basketed through the lifting guide on plant and the other attached directly to shackle on the front lifting point. Attach slings from basket to 2 legs of 4 leg chain sling and attach the sling from shackle to 3 <sup>rd</sup> leg of 4 leg chain sling. Back hook remaining leg to master link. Shorten legs as required, or 4 leg chain slings to integral lifting points.		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
2 no. 2.0t min WLL webbing or endless textile slings & 2 no. 2t min WLL bow shackles		Sling basket : 2.0t x 1.4	2.8t
1 no. 2.36t min WLL 4 leg chain slings		Sling/shackle : 2.0t x 0.7	1.4t
		2.36t x 1.0	2.36t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°) and hooks are facing out from the load, i.e. safety catches on the outside.</li> <li>• Check weight on plant data plate before lifting.</li> <li>• Check plant frame to ensure free from damage.</li> <li>• Manufacturers lifting point must be subject to a thorough visual examination.</li> </ul>		

## Wheeled generator (up to 15kVA)



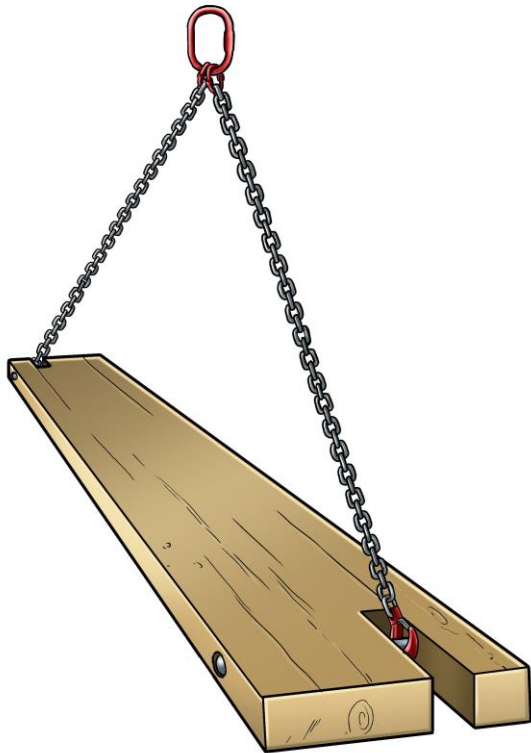
<b>Load size</b>	Various sizes up to 15kVA. Check the data label on the plant.	<b>Max load weight</b>	<b>0.5t</b>
<b>Load weight</b>	Check the plant data plates for specific model weight. 15kVA output towable wheeled generator weighs approx. 500kg.		
<b>Slinging method</b>	Single leg chain sling to integral lifting point		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
1 no. 0.8t min WLL single leg chain sling		0.8t x 1.0	0.8t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Manufacturers lifting point must be subject to a thorough visual examination.</li> <li>• Check the integral lifting point below the cover (all the way to the connection to frame if possible).</li> <li>• Check the integral lifting point is intended for lifting with identifying stickers / manual.</li> <li>• A sweep for loose material to be conducted during the test lift.</li> <li>• Check weight on plant data plate before lifting.</li> </ul>		

## Plate compactor and trench rammer



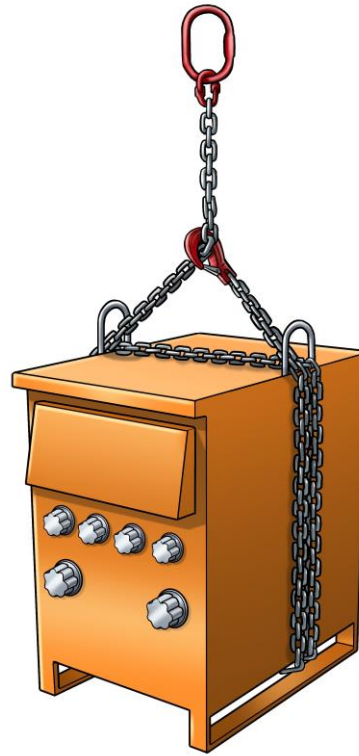
<b>Load size</b>	Various sizes. Check the data label on the plant.	<b>Max load weight</b>	<b>1.2t</b>
<b>Load weight</b>	Check the plant data plates for specific model weight. Forward/reverse compaction plates (not coupled together) weigh in the region 145kg – 1,200kg. Trench rammers weight up to 100kg.		
<b>Slinging method</b>	Single leg chain sling to integral lifting point. Check the integral lifting point is intended for lifting with identifying stickers / manual.		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
1 no. 1.5t min WLL single leg chain sling		1.5t x 1.0	1.5t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>Manufacturers lifting point must be subject to a thorough visual examination.</li> <li>A sweep for loose material to be conducted during the test lift.</li> <li>Check weight on plant data plate before lifting.</li> </ul>		

## Timber mats (Ekki / bog mats)



<b>Load size</b>	Various lengths from 3m – 6m and various depths from 70mm – 300mm.	<b>Max load weight</b>	<b>2.2t</b>																																																														
<b>Load weight</b>	<table border="1"> <thead> <tr> <th>Thickness</th> <th colspan="2">70mm</th> <th colspan="3">100mm</th> <th colspan="2">150mm</th> <th colspan="2">200mm</th> <th>300mm</th> </tr> <tr> <th>Size (m x m)</th> <th>1 x 3</th> <th>1 x 5</th> <th>1 x 3</th> <th>1 x 4</th> <th>1 x 5</th> <th>1 x 3</th> <th>1 x 5</th> <th>1 x 3</th> <th>1 x 5</th> <th>1 x 6</th> </tr> </thead> <tbody> <tr> <td>Weight (kg)</td> <td>227</td> <td>378</td> <td>324</td> <td>432</td> <td>540</td> <td>486</td> <td>810</td> <td>648</td> <td>1,080</td> <td>1,944</td> </tr> <tr> <td>Max to be lifted as pack</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>2</td> <td>3</td> <td>2</td> <td>1</td> </tr> <tr> <td>Pack (kg)</td> <td>908</td> <td>1,512</td> <td>1,296</td> <td>1,728</td> <td>2,160</td> <td>1,944</td> <td>1,620</td> <td>1,944</td> <td>2,160</td> <td>1,944</td> </tr> </tbody> </table>										Thickness	70mm		100mm			150mm		200mm		300mm	Size (m x m)	1 x 3	1 x 5	1 x 3	1 x 4	1 x 5	1 x 3	1 x 5	1 x 3	1 x 5	1 x 6	Weight (kg)	227	378	324	432	540	486	810	648	1,080	1,944	Max to be lifted as pack	4	4	4	4	4	4	2	3	2	1	Pack (kg)	908	1,512	1,296	1,728	2,160	1,944	1,620	1,944	2,160	1,944
Thickness	70mm		100mm			150mm		200mm		300mm																																																							
Size (m x m)	1 x 3	1 x 5	1 x 3	1 x 4	1 x 5	1 x 3	1 x 5	1 x 3	1 x 5	1 x 6																																																							
Weight (kg)	227	378	324	432	540	486	810	648	1,080	1,944																																																							
Max to be lifted as pack	4	4	4	4	4	4	2	3	2	1																																																							
Pack (kg)	908	1,512	1,296	1,728	2,160	1,944	1,620	1,944	2,160	1,944																																																							
<b>Slinging method</b>	Attach chain sling hooks to integral lifting bars (manufacturer’s lifting points). When lifting as a pack, ensure all mats are stacked with cut outs vertically aligned and pass chain sling down inside of lifting bars to bottom mat lifting bars. If the chain sling cannot be passed down the inside (due to size of hook), it is acceptable to pass the chain sling down the outside (within the cut out section).																																																																
<b>Lifting accessories</b>			<b>WLL x mode factors</b>				<b>Resulting SWL</b>																																																										
1 no. 2.8t min WLL 2 leg chain slings			2.8t x 1.0				2.8t																																																										
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°) and hooks are facing out from the load, i.e. safety catches on the outside.</li> <li>• Manufacturer’s lifting points must be subject to a thorough visual examination.</li> <li>• A sweep for loose material to be conducted during the test lift.</li> </ul>																																																																

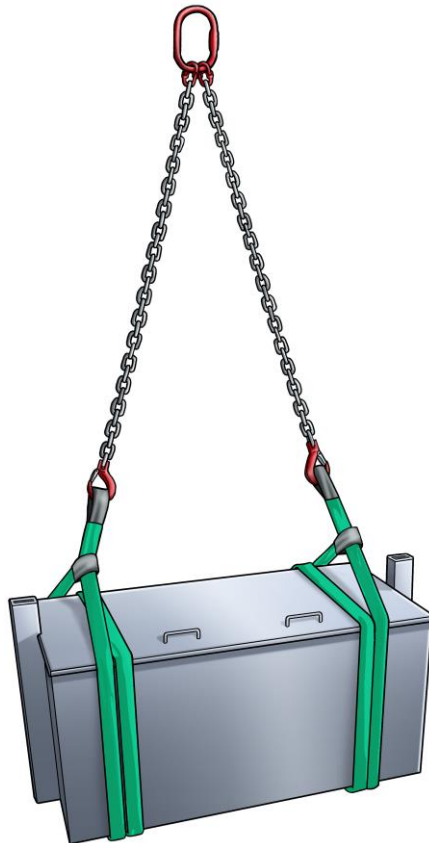
## Transformer (up to 20kVA)



<b>Load size</b>	Various sizes up to 20kVA. Check the data label on the plant.	<b>Max load weight</b>	<b>0.3t</b>
<b>Load weight</b>	Check the plant data plates for specific model weight. 20kVA output 110V transformer weighs approx. 200kg.		
<b>Slinging method</b>	Double wrap and choke transformer body with: Single leg chain slings, or 2 no. webbing or endless textile slings (attach 2 leg chain slings on top if required, 1.6t min WLL).		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
1 no. 0.5t min WLL single leg chain sling 2 no. 1.0t min WLL webbing or endless textile sling		0.5t – 20% choke 1.0t x 1.4 – 20% choke	0.4t 1.12t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;math&gt;&lt;90^\circ&lt;/math&gt; (excluded angle &lt;math&gt;&lt;45^\circ&lt;/math&gt;).</li> <li>• Use any loops at the top of the transformer to retain the slings, not to lift from.</li> <li>• Ensure protection is used to prevent damage to soft slings from sharp edges.</li> <li>• Check weight on plant data before lifting.</li> </ul>		



## Tool chest



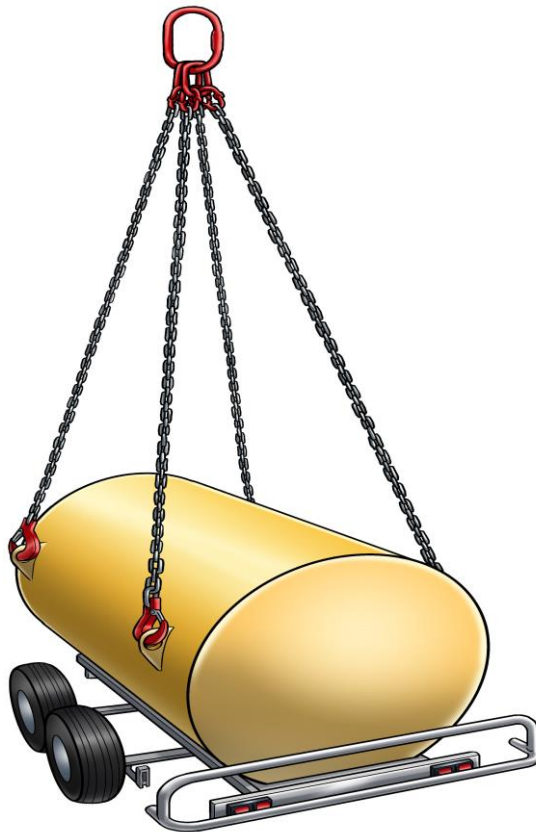
<b>Load size</b>	Various sizes up to 2,000 litres capacity. Check the data label on the plant.	<b>Max load weight</b>	<b>1.1t</b>
<b>Load weight</b>	Empty tool chest weighs approx. 150kg. Check contents of tool chest before lifting to ensure the contents are “standard” tools, not excessively heavy materials.		
<b>Slinging method</b>	<b>Fork guides on bottom:</b> 2no. webbing or endless textile slings through fork guides and choke slings on top of tool chest (attach 2 leg chain slings on top if required, 1.6t min WLL). <b>No fork guides on bottom:</b> 2no. double wrapped and choked webbing or endless textile sling at each end of the tool chest approx. 300mm from each end (attach 2 leg chain slings on top if required, 1.6t min WLL).		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
2 no. 2.0t min WLL webbing or endless textile slings		2.0t x 1.4 – 20% choke	2.24t
<b>Safety Considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°).</li> <li>• Check contents of tool chest before lifting to ensure the contents are “standard” tools, not excessively heavy materials.</li> <li>• Webbing slings must be protected from sharp edges, not be worn, have cuts or any damage.</li> </ul>		

## Fuel cube (up to 2,000 litres)



<b>Load size</b>	Various sizes up to 2,000 litres capacity. Check the data label on the plant.	<b>Max load weight</b>	<b>3.0t</b>
<b>Load weight</b>	Check weight of tank (empty) on data plate. Check the capacity of the fuel cube and add this to the empty tank weight (1 litre of fuel = 1kg). 2,000 litres capacity fuel cube weighs approx. 1,000kg (empty) or 3,000kg (full).		
<b>Slinging method</b>	4 leg chain slings to integral lifting points. Check the integral lifting points are intended for lifting with identifying stickers / manual.		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
1 no. 4.25t min WLL 4 leg chain slings		4.25t x 1.0	4.25t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;math&gt;&lt;90^\circ&lt;/math&gt; (excluded angle &lt;math&gt;&lt;45^\circ&lt;/math&gt;) and hooks are facing out from the load, i.e. safety catches on the outside.</li> <li>• Manufacturer's lifting points must be subject to a thorough visual examination.</li> <li>• Check weight on data plate and include fuel weight.</li> <li>• Ensure data plate includes load weight. If it doesn't, only lift fuel cube empty.</li> <li>• Ensure inlet / outlet points are securely closed before lifting.</li> <li>• Lift slowly and with care due to potential for movement of liquid within the tank and shifting of the centre of gravity.</li> </ul>		

## Fuel bowser (up to 1,000 litres)



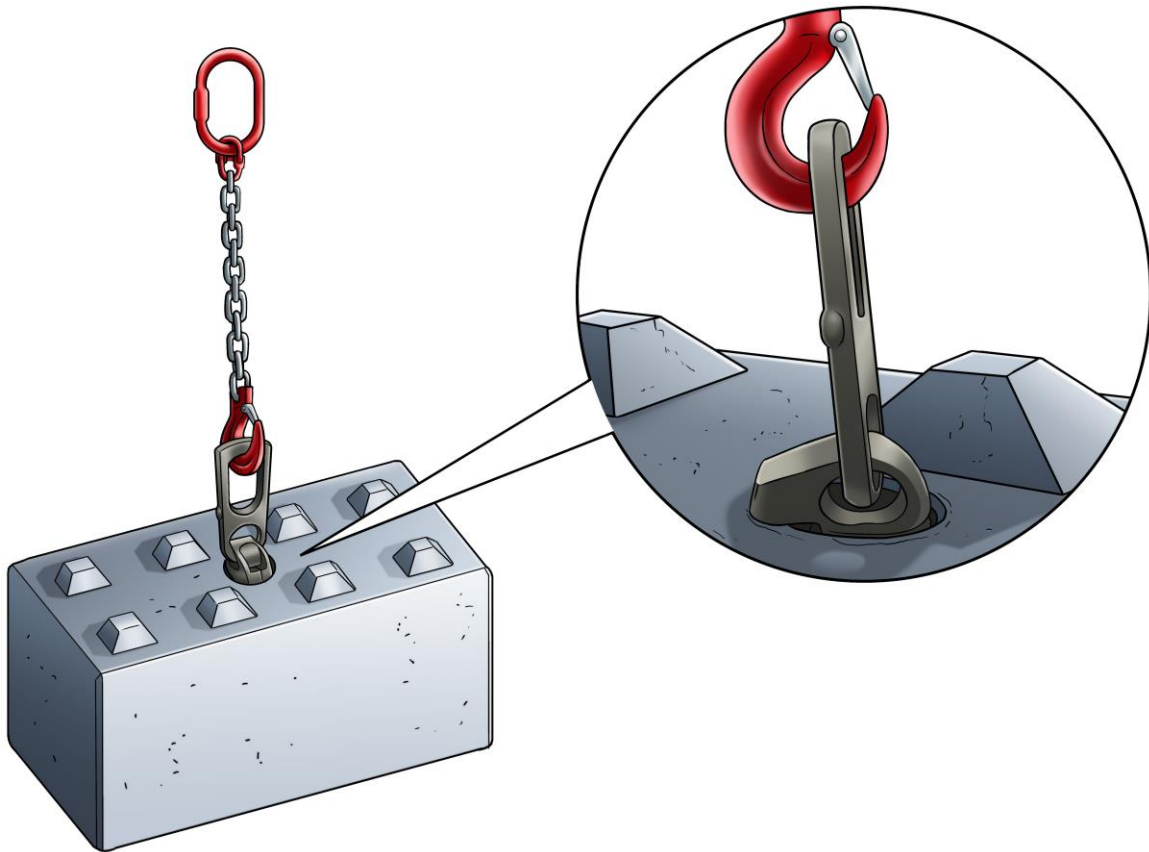
<b>Load size</b>	Various sizes up to 1,000 litres capacity. Check the data label on the plant.	<b>Max load weight</b>	<b>2.0t</b>
<b>Load weight</b>	Check weight of bowser (empty) on data plate. Check the capacity of the bowser and add this to the empty tank weight (1 litre of fuel = 1kg). 1,000 litres capacity bowser weighs approx. 1,000kg (empty) or 2,000kg (full).		
<b>Slinging method</b>	4 leg chain slings to integral lifting points. Check the integral lifting points are intended for lifting with identifying stickers / manual.		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
1 no. 2.36t min WLL 4 leg chain slings		2.36t x 1.0	2.36t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°) and hooks are facing out from the load, i.e. safety catches on the outside.</li> <li>• Manufacturer's lifting points must be subject to a thorough visual examination.</li> <li>• Check weight on data plate and include fuel weight.</li> <li>• Ensure data plate includes load weight. If it doesn't, only lift bowser empty.</li> <li>• Ensure inlet / outlet points are securely closed before lifting.</li> <li>• Lift slowly and with care due to potential for movement of liquid within the tank and shifting of the centre of gravity.</li> </ul>		

## Temporary Vertical Concrete Barrier (TVCB)



<b>Load size</b>	Various sizes up to 3.15m long x 0.8m high x 0.45m deep.	<b>Max load weight</b>	<b>2.5t</b>
<b>Load weight</b>	TVCB approx. weight 2,500kg.		
<b>Slinging method</b>	2 no. webbing or endless textile slings double wrapped and choked around fork guides (attach 2 leg chain slings on top if required, 2.8t min WLL), or		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
2 no. 3t min WLL webbing or endless textile slings		3.0t x 1.4 – 20% choke	3.36t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°).</li> <li>• Any integral lifting points are only to be used with the express permission of the AP and are subject to separate lift plan.</li> <li>• Integral lifting points, when approved by the AP for use, must be subject to a thorough visual examination before lifting and must be protected when not in use. Any eyebolts used must be selected appropriately by the AP (e.g. swivel eyebolts) and must be inserted in accordance with both the eyebolt supplier and TVCB supplier instructions.</li> </ul>		

## Elite / Legato blocks



<b>Load size</b>	Various sizes up to approx. 1.6m long x 0.8m high x 0.8m deep.	<b>Max load weight</b>	<b>2.4t</b>
<b>Load weight</b>	The largest block, 1.6m x 0.8m x 0.8m, weighs approx. 2,400kg. Check with AP for individual block weights.		
<b>Slinging method</b>	Single leg chain sling to lifting clutch. Only use the lifting clutch compatible with the anchor size – do not use lower or higher WLL clutches than the compatible clutch as different clutches are different sizes and may release the load unintentionally.		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
1 no. 3.15t min WLL single leg chain sling 1 no. compatible lifting clutch		3.15t x 1.0 Clutch WLL x 1.0	3.15t Clutch SWL
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Lifting point must be subject to a thorough visual examination.</li> <li>• Ensure lifting clutch tab is fully engaged and tab is touching block.</li> <li>• Integral lifting points must be protected when not in use.</li> <li>• Only use the lifting clutch compatible with the anchor (not lower or higher WLL).</li> </ul>		

## Excavator bucket



<b>Load size</b>	Various sizes to suit excavator sizes up to 35t excavator.	<b>Max load weight</b>	<b>1.5t</b>
<b>Load weight</b>	Various weights depending on excavator size and bucket size. The largest standard bucket for a 35t excavator weighs approx. 1,500kg. A standard excavating bucket for a 21t excavator weighs approx. 800kg. Check weight with AP before lifting.		
<b>Slinging method</b>	Single leg chain sling attached directly to bucket pin (if suitable size) or choked around the bucket pin.		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
1 no. 2.0t min WLL single leg chain sling		2.0t x 1.0	2.0t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure bucket weight is below 1.5t before lifting.</li> <li>• Ensure bucket is empty before lifting.</li> </ul>		

## Hydraulic breaker



<b>Load size</b>	Various sizes to suit excavator sizes up to 21t excavator. Check the data label on the plant.	<b>Max load weight</b>	<b>2.0t</b>
<b>Load weight</b>	Various weights depending on excavator size and breaker size. A standard breaker for a 21t excavator weighs up to approx. 2,000kg. Check weight with AP before lifting.		
<b>Slinging method</b>	2 no. webbing or endless textile slings, both double wrapped and choked symmetrically about the centre of gravity (approximately in the middle of the unit) (attach 2 leg chain slings on top if required, 2.1t min WLL).		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
2 no. 2.0t min WLL webbing or endless textile slings		2.0t x 1.4 – 20%	2.24t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>• Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°).</li> <li>• Check weight on plant data plate before lifting</li> <li>• Ensure hoses are tied back to the breaker to avoid them striking people.</li> </ul>		

## Fence panels (Heras and pedestrian)



<b>Load size</b>	Various sizes up to 2.0m high x 3.5m long.	<b>Max load weight</b>	<b>0.8t</b>
<b>Load weight</b>	<p>Standard Heras fence panels weigh approx. 20kg each.                      Heras gate panels weigh approx. 32kg each.                      Pedestrian barriers (including gated walkthroughs) weigh approx. 19kg each.                      A pack of up to 25 no. panels (any type) weighs approx. 800kg.</p>		
<b>Slinging method</b>	<p>Heras panels (horizontally) – double wrap and choke webbing or endless textile slings approx. 300mm in from either end of the pack                      Pedestrian panels (vertically) – choke webbing or endless textile slings through the frame approx. 300mm in from either end of the pack.</p>		
<b>Lifting accessories</b>		<b>WLL x mode factors</b>	<b>Resulting SWL</b>
2 no. 1t min WLL webbing or endless textile slings		1.0t x 1.4 – 20% choke	1.12t
<b>Safety considerations</b>	<ul style="list-style-type: none"> <li>Ensure leg length is sufficient to keep included angle &lt;90° (excluded angle &lt;45°).</li> </ul>		





PART OF **nocn** GROUP

Acero Building  
1 Concourse Way  
Sheaf Street  
Sheffield  
South Yorkshire  
England  
S1 2BJ

**Tel:** 0300 999 1177

**Email:** [nocn@nocn.org.uk](mailto:nocn@nocn.org.uk)

**[www.nocn.org.uk](http://www.nocn.org.uk)**

In the bottom right corner, there are several dark blue curved lines that form a partial circular shape, mirroring the decorative elements on the left side of the page.