



Technical Data Sheet

PlasLOC+

240kg

Technical Data Sheet (TDS)

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Product Code	E-PLASLOC

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Definitions

Spool	A form in which PlasLOC+ wire is wound for transport, storage and handling. Each spool contains up to 12,000 m of wire and weighs approximately 240kg.
Collapsible Reel	A metal frame with one detachable side known as an “End Cap”, allowing a spool to be loaded onto it for use in a payoff stand. Once the spool is positioned, the ‘End Cap’ is secured with 4 bolts to create a stable & movable assembly.
Payoff Stand	A metal frame designed to hold a Collapsible Reel in an upright position, allowing the collapsible reel to rotate freely during use. The reel is supported via axle bushings that align with the reel’s core.

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Lifting Bands	Designated double-wrapped plastic straps on the spool, intended exclusively for mechanical lifting. Other plastic straps on the spool are non-load-bearing and are provided solely to maintain spool and wire integrity during transport.
Straps / Bands	Plastic securing and lifting components fitted to the spool. These comprise non-load-bearing straps, used solely to maintain wire and spool integrity during transport and designated load-bearing lifting bands. Referred to as Straps or Bands.
Personal Protective Equipment (PPE)	Protective clothing and equipment required during handling, inspection and operation. Including cut-resistant gloves, steel-toe boots, protective eyewear and other items as determined by the workplace risk assessment.
Mechanical Lifting Equipment	Approved equipment such as a forklift or crane, fitted with inspected lifting chains and hooks rated for the load being handled, used to safely lift spools or collapsible reels.

Product Description

PlasLOC+ is a high-performance plastic baling wire engineered for industrial baling applications. Manufactured from recycled waste plastic, it provides a reliable, clean alternative to traditional steel wire while offering consistent tensile performance and controlled elongation. The wire is produced to tight dimensional tolerances, ensuring uniform feed, dependable knot retention and stable behaviour under tension.

Applications

Securing bales in recycling facilities (RDF, Paper, Cardboard, Plastic, Metals etc).

Technical Properties

Diameter	Finish	Length & Weight
4.0 mm × 4.0 mm (Square)	Green coloured polymer finish	Up to 12,000 Meters per 'Spool', Approx 240kg.
Material	Recycled polyester blend	
Elongation	20-30% at break	
Diameter Tolerance	4mm ² (+0.1mm to -0.1mm)	
Length Tolerance	± 12,000m per/spool	
Tensile	320kN+	
Packaging	Spools are supplied in the following configurations: - Standalone Spools, supplied 'loose' with a maximum of four spools per pallet. - Spools pre-loaded onto Collapsible reels, supplied with a maximum of four collapsible reels per pallet. Spools are secured with eight plastic straps in total. Six straps are provided solely to maintain spool and plastic wire integrity during transport, while two designated double-wrapped lifting bands are load-bearing and intended exclusively for mechanical lifting during loading into the payoff stand. Pallets are shrink-wrapped to provide stability and protection during transport. Loads are additionally secured to the pallet using metal banding, and PlasLOC-branded tape is applied to maintain package integrity, protection from the environment and clear product identification throughout handling and distribution.	

PlasLOC+ Spool & Collapsible Reel Dimensions

240kg Spool of PlasLOC+ Baling wire	Inner Radius	240mm
	Outer Radius	350mm
	Height	390mm
240kg Spool of PlasLOC+ Baling wire – on a Collapsible Reel .	Inner Radius	220mm
	Outer Radius	540mm
	Height	405mm

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Handling & Usage

Always wear appropriate gloves when handling banding / strapping under tension.

Ensure user has appropriate manual handling training and or lifting aids are accessible where necessary.

Ensure baler is compatible with specific gauge and tensile strength.

Pallet & [spools](#) shall only be moved using a forklift truck operated by a trained and authorised employee.

Storage & Shelf life

Storage Conditions: Store indoors in dry, covered conditions away from corrosive substances.

Shelf life: Indefinite under proper storage conditions.

Prolonged exposure to direct sunlight or moisture / rain may alter the performance characteristics of the wire. Exposure to corrosive environments or atmospheric conditions may reduce the product's service life.

Packaging Options

Four 'Collapsible Reels' are supplied on 1 Pallet. Each spool on a collapsible reel is individually coiled, wrapped & secured ([See Figure 1 – Example delivery Format](#)).

If alternative packaging options are required (*examples: less weight per spools, less spools per pallet or other alternative packaging options*) please contact your account manager to discuss available solutions.

Customer Use of Collapsible Reels – Disclaimer

On **initial delivery**, spools are supplied pre-loaded onto collapsible reels ([See Figure 1](#)). Subsequent orders are normally supplied as spools only ([See Figure 2](#)), with existing [collapsible reels](#) reused for ongoing operation.

[Collapsible reels](#) are supplied by Accent and are retained by you for continued use on the [payoff stand](#). A payoff stand is only required where the baler does not have an integrated payoff system.

If a collapsible reel becomes damaged, worn or unsuitable for use, you can request a replacement or swap.

This is the primary method for using PlasLOC+ wire, ensuring safe handling and efficient operation.

Please follow the [TDS safety information](#) procedure for loading spools onto collapsible reels to ensure safe and correct operation.

Safety information

This product is not hazardous under normal handling conditions & contains no hazardous chemicals pertaining to COSHH Substances. Please see below for specific safety instructions:

1) Receipt of Delivery

Purpose : Ensure safe unloading and initial inspection of delivered spools.

Safety & Handling points:

- i. Deliveries shall only be **unloaded by authorised employees** using appropriate **lifting equipment** (Forklift, Pallet truck etc).
- ii. Ensure the **delivery area is level, stable** and free of obstructions prior to unloading.
- iii. Visually **inspect packaging, pallet and product integrity** before moving. Report any visible damage immediately ([See Figure 1](#)).
- iv. **Do not attempt to manually unload** Spools from the pallet.

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2) Movement of the Pallet

Purpose : Minimise risk during internal transport of pallets.

Safety & Handling points:

- i. Pallets must be moved using a **forklift or pallet truck** operated by a **trained and authorised employee**.
- ii. Do not stack pallets.
- iii. Ensure the **load is stable** before lifting or moving.
- iv. Avoid sudden movements, sharp turns or inclines while transporting the load.
- v. Never allow anyone to **stand on or ride the pallet** during transport.

3) Inspection & preparation

Purpose : Ensure Spools are safe to handle and the work area is prepared.

Safety & Handling points:

- i. Only **trained employees** shall perform inspection and preparation.
- ii. Wear appropriate **PPE**, including **cut-resistant gloves**, **steel-toe boots** and **protective eyewear** (where risk of wire tension or snap-back exists).
- iii. Maintain a **safe distance** from **Spools** during inspection.
- iv. Inspect Spools for **visible damage or deformation** before lifting.
- v. Position Spools **flat** on a **stable, level surface** and ensure that the **surrounding area is clear**.
- vi. Remove all **securing materials** (ties, wrapping etc.) responsibly to prevent **trip hazards** or **sharp debris**.
- vii. Use **safe material handling techniques** in accordance with your workplace **risk assessment** and **appropriate mechanical lifting equipment**.
- viii. Do not **roll, drop or drag** Spools.

4) Removing the Collapsible Reels from the Pallet – *(Initial delivery only)*

Purpose : Ensure safe handling and removal of pre-loaded collapsible reels upon initial delivery.

Safety & Handling points:

- i. Only **trained employees** shall remove collapsible reels from the pallet.
- ii. Maintain a **safe distance** from the reel during lifting — sudden unexpected movement may cause serious injury.
- iii. Inspect the **collapsible reel and pre-loaded spool** for **visible damage** or **deformation** before lifting.
- iv. **Do not attempt manual lifting of the reel**. Always use **appropriate mechanical lifting equipment** (crane, hoist or forklift) rated for 240kg.
- v. Attach hooks either to the **designated double-wrapped lifting bands** or **directly to the collapsible reel frame** ([See Figure 15](#)). Attaching to the frame is **preferred**. Other straps are **non-load-bearing** and provided solely for transport integrity.
- vi. Lift the collapsible reel **clear of the pallet** in a controlled manner. Ensure that **no other employees** are in the potential path of sudden release.
- vii. Once lifted, position the collapsible reel in a **stable, flat area** for subsequent loading onto the **payoff stand**.
- viii. Repeat these steps for any additional collapsible reels on the pallet, starting from the **topmost collapsible reel** and proceeding sequentially to maintain stability.

5) Removing Individual Spools from the pallet.

Purpose : Ensure safe handling and preparation of Spools.

Safety & Handling points:

- i. Lifting shall be carried out using the **designated ‘double-wrapped’ plastic lifting bands only** ([See Figure 4](#)). The other plastic straps are **non-load-bearing** and are provided solely for Spool integrity, use of these straps for lifting may result in **strap failure**.
- ii. For **stacked Spools** (up to 4x 240kg units), always start with the **topmost Spool** ([See Figure 2](#)).
- iii. Use **suitable mechanical lifting equipment** (Crane or Forklift) fitted with **inspected lifting chains and hooks rated for 240kg**.
- iv. Attach the hooks only to the **designated lifting bands** of the top Spool and lift it **clear of the stack**.
- v. Repeat the process sequentially for the remaining Spools, ensuring that lifting bands are used exclusively for their intended purpose and that the **stack remains stable** throughout handling.

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6) Loading Spools into the Collapsible Reel

Purpose : Ensure safe loading, handling and correct lifting technique.

Safety & Handling points:

- i. **Only trained operators** shall load the Spools onto the **Collapsible Reel**
- ii. Maintain a **safe distance from suspended Spools** — sudden unexpected release may cause serious injury.
- iii. Carefully guide the Spool over the **Collapsible Reel** and lower it into position ([See Figure 7](#), [Figure 8](#), [Figure 9](#), [Figure 10](#), [Figure 11](#)).
- iv. Remove lifting aids from working area and ensure the workspace is clear to eliminate slip, trip and fall hazards.
- v. Lift and position the **Collapsible Reel 'End Cap'** on top of the Spool using appropriate manual handling techniques according to your companies manual handling risk assessments ([See Figure 12](#), [Figure 13](#)).
- vi. **Secure in place using the four bolts** ([Figure 14](#)).
- vii. This Spool is now ready to be loaded into the **Payoff Stand**.

7) Loading Collapsible Reel into Payoff Stand

Purpose : Ensure safe loading, handling and correct lifting technique.

Safety & Handling points:

- i. **Only trained operators** shall load **Collapsible Reels** into the **Payoff Stand**.
- ii. Maintain a **safe distance from suspended Collapsible Reels** — sudden unexpected release may cause serious injury.
- iii. Attach lifting hooks to one side of the **Collapsible Reel frame** ([See Figure 15](#)), ensuring the hooks are correctly connected and secured before lifting.
- iv. Lift the **Collapsible Reel**, until it is upright. The carrier does not need to leave the ground completely, it only needs to be manoeuvred into a vertical position ready for the next step ([See Figure 16](#)).
- v. Remove one lifting chain while keeping the other attached and connect it to the opposite side of the **Collapsible Reel** ([See Figure 17](#)).
- vi. Lift the **Collapsible Reel** and guide it into position inside the **Payoff Stand** ([See Figure 18](#), [Figure 19](#), [Figure 20](#)).
- vii. Lower the **Carrier** until the hollow core aligns with the Axle Bushings on the frame. Guide one side of the Collapsible Reel into the bushing ([See Figure 21](#)), then carefully align and insert the other side ([See Figure 22](#)), securing it with the provided pin ([See Figure 23](#)).

8) Final Preparation Prior to Operation

Purpose : Ensure safe removal of transport restraints / lifting straps and controlled feeding of the wire prior to operation.

Safety & Handling points:

- i. **Only trained operators** shall carry out final preparation prior to operation.
- ii. Confirm the Collapsible Reel is **correctly installed, aligned and secured** in the Payoff Stand before removing any transport / lifting straps.
- iii. Always wear **appropriate PPE**, including cut-resistant gloves and eye protection due to the risk of stored energy and snap-back of wire.
- iv. Identify the 'free end' of the wire (the end intended to be fed into the baler) **before removing any straps**.
- v. Cut and remove all transport straps, including lifting straps, **except for the single strap retaining the 'free end' of the wire**.
- vi. **Maintain a safe stance to the side of the reel**, keeping hands, face and body clear of the potential path of sudden release.
- vii. Hold the 'free end' of the wire securely and **apply controlled tension by pulling it tight before cutting the final retaining strap**.
- viii. While maintaining control of the wire, carefully cut the final strap **ensuring the wire does not release uncontrollably**.
- ix. Once released, guide the wire end **already in hand** toward the baler and feed it in accordance with the baler manufacturer's operating instructions.
- x. **Ensure no personnel are positioned in the line of pull** and do not commence operation until the area is **confirmed clear**.

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Images

Image Reference & Description	Image
Figure 1 – Example delivery format of 4 Spools on Collapsible Reels. (Initial delivery format)	 A photograph showing four large spools of green cable stacked vertically on a wooden pallet. Each spool is mounted on a brown metal collapsible reel. The spools are wrapped in clear plastic, and each has a white label with the 'PlasLOC+' logo. A black metal frame is positioned around the spools for stability.
Figure 2 – Example delivery format of 4 Spools.	 A photograph showing four large spools of green cable stacked vertically on a wooden pallet. The entire stack is wrapped in clear plastic. Each spool has a white label with the 'PlasLOC+' logo. The spools are secured with black straps.
Figure 3 – 3 Spools on pallet, packaging removed - showing 1 Spool removed.	 A photograph showing three large spools of green cable stacked vertically on a wooden pallet. The top spool has been removed, leaving a gap at the top. The remaining spools are secured with black straps. The background shows a warehouse setting.

Figure 4 - Spool showing plastic straps for transport integrity and double-wrapped lifting straps.

Red arrow – Plastic straps (Not for lifting).

Orange arrow – Double wrapped lifting straps.

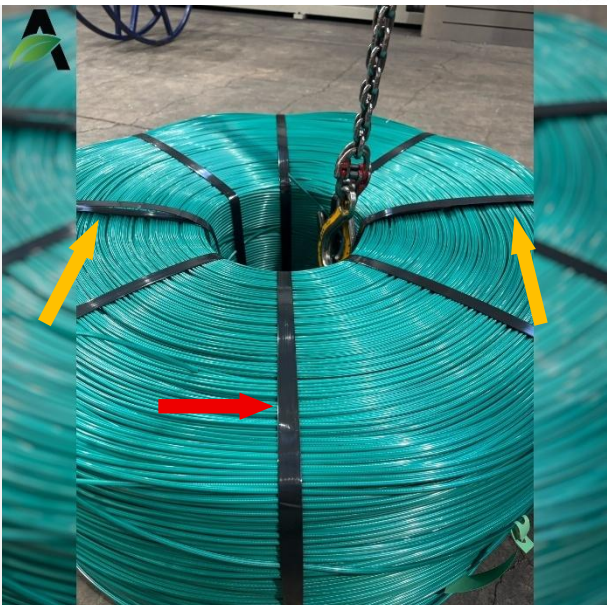


Figure 5 – Example Payoff Stand without Collapsible Reel.



Figure 6 - Collapsible Reel open, hollow core visible for Spool loading.



Figure 7 - Spool with lifting hook and chain attached to designated double-wrapped lifting straps.



Figure 8 - Suspended Spool with lifting hook and chain attached to designated double-wrapped lifting straps.

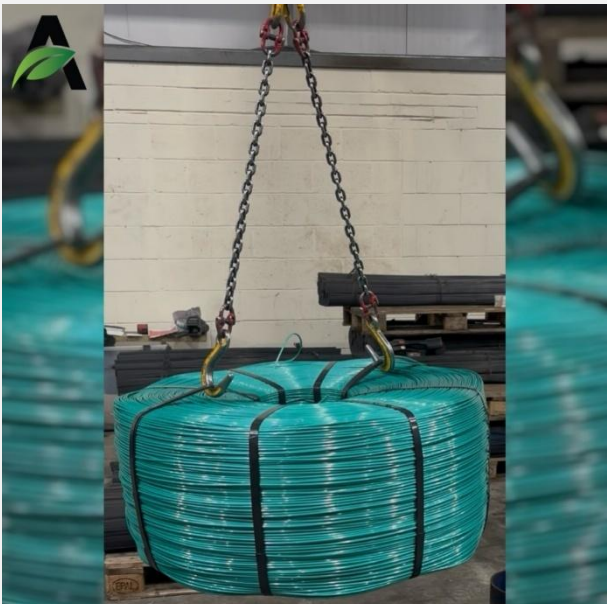


Figure 9 - Spool being guided and lowered onto the hollow core of the Collapsible Reel.



Figure 10 - Spool positioned on Collapsible Reel with lifting hooks still attached.



Figure 11 - Spool seated on Collapsible Reel (no lifting equipment attached).



Figure 12 - Employee lifting Reel End Cap onto Collapsible Reel with Spool in place.



Figure 13 - Collapsible Reel with Spool and End Cap in place, before fastening bolts.



Figure 14 - Top-down view of Collapsible Reel with Reel End Cap secured using all four bolts.

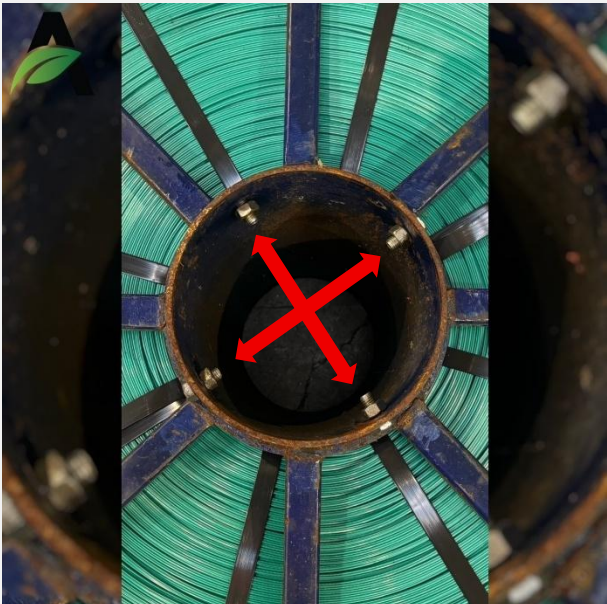


Figure 15 - Lifting hooks attached to one side of Collapsible Reel, ready to lift upright.



Figure 16 - Collapsible Reel upright, hooks attached, chains not yet repositioned



Figure 17 - Collapsible Reel suspended, with one lifting chain attached to each side.

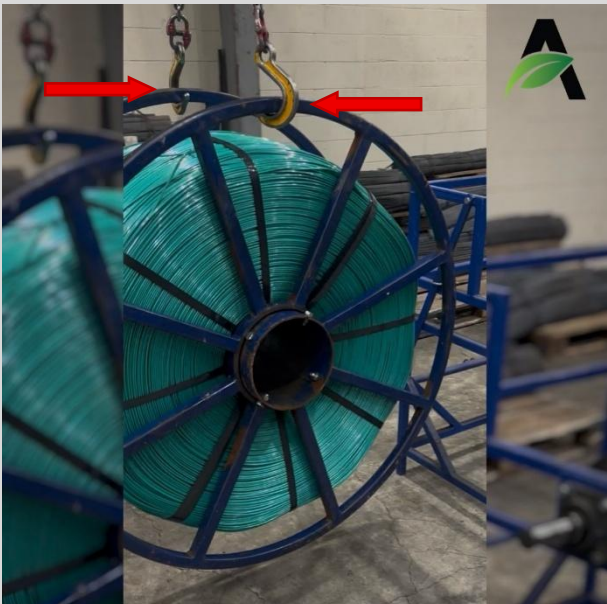


Figure 18 - Collapsible Reel suspended and being guided into position over the Payoff Stand



Figure 19 - Suspended Collapsible Reel carefully lowered into position on Payoff Stand.

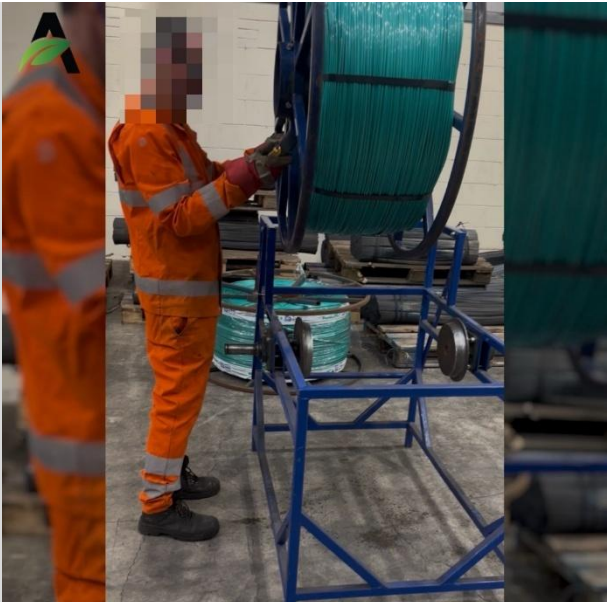


Figure 20 - Suspended Collapsible Reel carefully lowered into position on Payoff Stand.

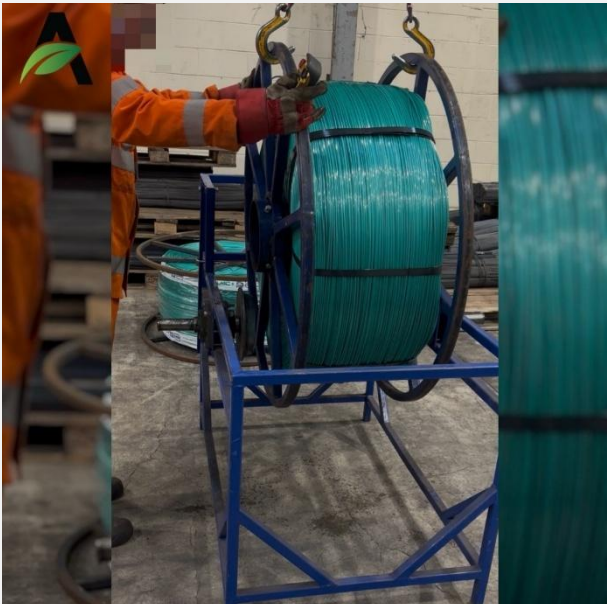


Figure 21 - Collapsible Reel being lowered into position, aligning the hollow core with the Payoff Stand axle bushings.



Figure 22 - Aligning second axle bushing with Collapsible Reel.

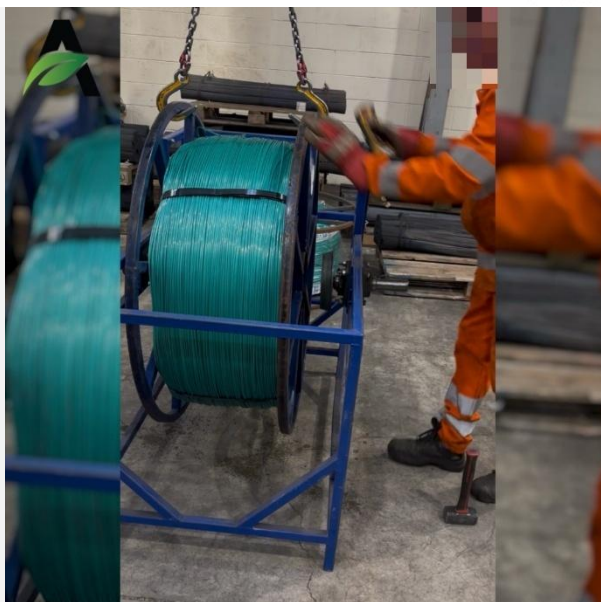


Figure 23 - Employee pushing axle bushing into Collapsible Reel on Payoff Stand.

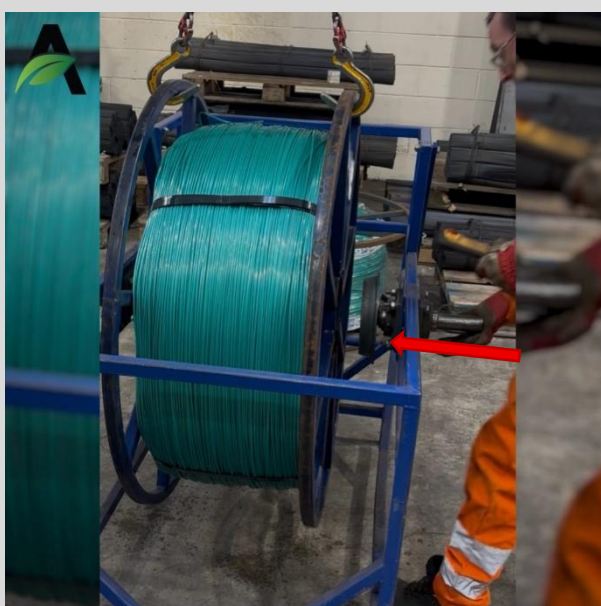
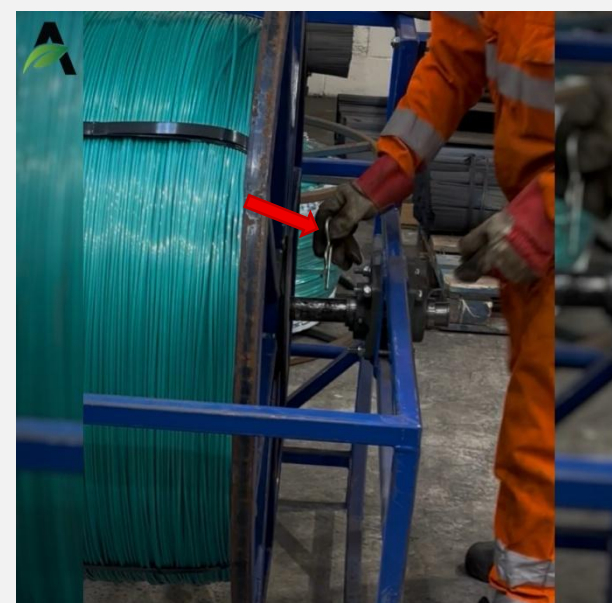


Figure 24 - Securing Collapsible Reel in Payoff Stand using the locking pin



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General Safety Notes

- ❖ Always follow your site's **health & safety policy, manual handling training** and **risk assessments**.
- ❖ Use appropriate **PPE** during all stages of handling and operation.
- ❖ Store wire and coils **indoors** away from corrosive materials.
- ❖ Keep wire out of reach of unauthorised people or areas with public access.
- ❖ Ensure all staff are trained in the **safe handling and use** of baling wire.

Compliance & Standards

ISO 9001:2015 Quality Management System

ISO 14001:2015 Environmental Management System

All information contained within this document is accurate at the time of publication. Variations in technical specifications may occur in response to individual customer requirements; however, this document outlines a general technical specification applicable to the majority of products within this category. All handling and safety information remains applicable regardless of specific technical configurations. For further information or any enquiries, please contact: hbussey@accentwire.co.uk.

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