Experts in our field.

We Make. We Supply. We Deliver.
Manufacturing

Bale Wrap
• Blown extrusion.
• Windmöller (7 layers).
• Reiffenhauser (5 layers) x 2 lines.
• 12,000 tonnes annually.

Bale Netting
• The largest producer of net products in the world.
• 1 million rolls of bale net annually.
• KARL MAYER machines.

Baling Twine
• 20 machines.
• Italian made Sima machines.
• German made Barmag machines.
• 36,000 tonnes annually.
• All types of twine produced: Big bale, medium, hay & fine.
• ISO 9001:2008 - quality certs.

Silage Sheets
• Specification labeled on each sheet.
• Virgin polymers.
• 02 impermeability 24 hours.
• Flexibility to adhere to silage.
• High puncture /tear resistance.

Silage Tape
• Epicrop Silage Tape is high strength, strong adhesive PVC tape.

We provide premium packaging solutions to the agricultural world.

Operations in:
Ireland | UK | Spain | Germany | Poland
Australia | New Zealand | Canada
Bale Wrap

Plastics Extrusion
Plastics extrusion is a high volume manufacturing process in which raw plastic material is melted and formed into a continuous profile. One of the most common methods of film manufacture is Blown Film Extrusion. The process involves extrusion of a plastic through a circular die, followed by ‘bubble-like’ expansion. The principal advantage of manufacturing film by this process is stronger puncture resistance.

Multi-layering
Our agri film is manufactured by five and seven multi-layer co-extrusion lines while single-layer and three-layer film production is increasingly intended for a limited and low target market.

Blown-Film Extrusion
1. The volume and pressure of air “blown” into the tube causes the material to stretch, thereby determining the overall size of the bubble and the width of the finished sheet.
2. This same action, in conjunction with the rate at which the bubble is being pulled upward away from the die, determines the thickness of the finished film.
3. The bubble begins the air-cooling process while traveling up to the nip rollers.

The multi-layer film ensures an enhanced management of raw process materials and optimised additive distribution in every layer, thus increasing film physical and mechanical properties.
**EPIC 7**

*The Strongest* and most technically advanced wrap on the market.

*EPIC 7* is a 7 layer co-extruded blown stretch film developed with high performance advanced polymers, manufactured using the very latest state of the art 7 layer extrusion production systems.

---

**EPIC 5**

With 5 layer technology, all the mechanical aspects of a bale wrap are maximised resulting in a consistently reliable, high quality, high performing film.

In order to provide the ideal ensiling environment balewrap needs to offer a number of important elements such as strength, puncture and tear resistance, elasticity, UV stability and the ability to cling in all circumstances.

---

**ENVIRO PLUS 1650**

- Up to 3 extra bales per roll.
- Less downtime (fewer roll changes).
- Less waste in roll cores and roll packaging.
- Less roll handling.
- Economical - saving money.

---

**ENVIRO PLUS 2000**

- Up to 10 extra bales per roll.
- Wrap with 6 Layers with no extra cost.
- 7 Layer gives super strength and excellent O2 barrier properties.
- Unbeatable price per bale.

---

**BALEWRAP**

- Greater strength and cling.
- UV stabilisation protection.
- Greater resistance to oxygen ingress.
- Consistent trouble-free wrapping.
- Great value for money, elasticity, UV stability and the ability to cling in all circumstances.
Epicrop Bale Net has proven to **consistently deliver** all of the performance criteria demanded by contractors for all baling conditions.

Epicrop Bale Net not only delivers you guaranteed length and full bale coverage, but also competitive prices which ensure customer satisfaction.

Using Epicrop Bale Net:
- Full Bale coverage performance.
- High strength to cope with the heaviest of bales.
- End warning system that alerts operator when there is 50m left.
- Guaranteed minimum length ensures value for money.
- Consistent and trouble-free baling.
- UV stabilised.

Using Cheap Bale Net:
- Leaves shoulders which lead to trapped air leaving mould on the silage.
- Cheap netwrap will only work on some bale types.
- Tearing on hay and straw.
- Less bales per roll as more bale net is required to keep bale together.
- Means customers holding you accountable for poor quality bales!
**GOLD Bale Net**

**Epicrop Gold** is manufactured using the latest developments in net technology. This enhancement offers the user a full range of features and benefits which leads to fewer rolls and less baling time. Gold Bale Net provides users with the highest quality, highest resistance and maximum strength bale net on the market today. Its 11.5 grams gives 310kg which is the strongest in the market.

<table>
<thead>
<tr>
<th>GOLD BAILE NET Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brandname</td>
</tr>
<tr>
<td>Colour</td>
</tr>
<tr>
<td>Roll length</td>
</tr>
<tr>
<td>Width</td>
</tr>
<tr>
<td>Breaking Strength</td>
</tr>
<tr>
<td>Rolls/pallet</td>
</tr>
</tbody>
</table>

**RED Bale Net**

**Red Bale Net** is characterised by the superior quality and ability to adapt perfectly to crop conditions at any time. The raw materials and production methods used provide users with a greater net strength of 10.5 grams giving max breaking strain of 250kg and improved protection from the elements.

<table>
<thead>
<tr>
<th>RED BAILE NET Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brandname</td>
</tr>
<tr>
<td>Colour</td>
</tr>
<tr>
<td>Roll length</td>
</tr>
<tr>
<td>Width</td>
</tr>
<tr>
<td>Breaking Strength</td>
</tr>
<tr>
<td>Rolls/pallet</td>
</tr>
</tbody>
</table>

**BLUE Bale Net**

**Blue Bale Net** is characterised by the ability to adapt perfectly to crop conditions at any time. The raw materials and production methods used provide users with a net strength of 9.5 grams giving max breaking strain of 230kg and improved protection from the elements.

<table>
<thead>
<tr>
<th>BLUE BAILE NET Specification</th>
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</thead>
<tbody>
<tr>
<td>Brandname</td>
</tr>
<tr>
<td>Colour</td>
</tr>
<tr>
<td>Roll length</td>
</tr>
<tr>
<td>Width</td>
</tr>
<tr>
<td>Breaking Strength</td>
</tr>
<tr>
<td>Rolls/pallet</td>
</tr>
</tbody>
</table>

**Stack Netting**

Suitable for protecting silage clamps and big bales.

<table>
<thead>
<tr>
<th>EPICROP STACK NETTING Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brandname</td>
</tr>
<tr>
<td>Roll length</td>
</tr>
<tr>
<td>Width</td>
</tr>
</tbody>
</table>

**DOUBLE CHAIN Technology**

Double Chain Bale Net uses an innovative, state of the art technology to increase strength by using Double Chain instead of traditional single chain.

- **Double Thread**
  -强者比市面上任何其他网线更强，Double Chain确保最大抵抗撕裂和产品损失。

- **Double Security**
  -Double Chain网线使用创新的、先进的技术，通过使用双层包裹代替传统的单层包裹来增加抗拉强度。

- **Extra Protection**
  -Double Chain网线为所有类型的作物提供额外保护，无论重量或大小，由于其创新的加固链。

- **Superior Coverage**
  -Double Chain网线用一种创新的、先进的技术，通过使用双层包裹代替传统的单层包裹来增加抗拉强度。

- **Reinforced Cross Mesh**
  -Double Chain网线的创新设计使用加固网状线提供一种强韧可靠的解决方案。

- **Reduced Time & Costs**
  -Double Chain网线的轻量化设计使得其长度比市场标准网线长66%，可以减少包裹同样年度包的数量所需的时间和成本。

**Double Chain Bale Net**

- **Stack Netting**
  -Double Thread and Reinforced Mesh创建了更耐用，更安全的包网。
Silage Sheets

A poor quality sheet may cause up to 10% loss of quality on average silo which can lead to significant loss of money. A good silage sheet is recognised by the quality of its high resistance, UV protection, oxygen permeability, food contact suitability and eco design.

The key to Quality Silage Fodder is the choice of Silage Sheet.

Success will be determined by the seal, resistance/ strength and flexibility of the silage sheet you choose. In order to ensure quality silage, make sure your sheet is gauge guaranteed and is produced using virgin polymers.

Epicrop Silage Sheets are produced with the best virgin polymers and are gauge guaranteed, which gives superior mechanical properties and strong resistance to impact and tearing for the entire season.

Epicrop Silage Sheets guarantee:
- Specifications labeled on each sheet.
- Virgin polymers.
- 0.2 impermeability 300m³/m²/24 hours.
- Flexibility to adhere to the silage.
- Food contact suitability.

Epicrop Black/Green

Epicrop Black/Green has the green layer which makes it one of the strongest silage sheets on the market. This environmentally friendly green layer prevents undesirable fermentations from occurring due to its capacity of reflecting the solar radiation from the sun, which decreases the temperature of the fodder, silage or grain stored beneath.

EPICROP Silage Sheets are a super strong protective silage sheet.

They are developed in close co-operation with end users and leading raw material suppliers. Epicrop silage sheets are manufactured from the best materials by means of a high tech co-extrusion process that guarantees even and reliable quality.

Epicrop Silage Sheets are produced with the best virgin polymers and are gauge guaranteed, which gives superior mechanical properties and strong resistance to impact and tearing for the entire season.

EPICROP Black/Green

EPICROP Combi Film Silage Sheets

Our newly developed range of Combi Silage Sheets combine the underlay film with the black/white silage cover.

Both films are combined together during the manufacturing process. This product eliminates one complete labour intensive step during the silage pit covering process.

Why compromise your silage pit, worth substantial revenue, with poor quality, non-specified and non-guaranteed silage sheets?

Epicrop Silage Sheets are available in:
- black, black/white & black/green
- various different sizes
- various different thicknesses
Baling Twine

A comprehensive range of high quality twines are available and they are suitable for use on the most advanced baling machinery throughout the season.

In order to achieve such high quality, our twine is manufactured with an emphasis on the fibrillation which is crucial to achieve a high performing twine.

Fibrillation is achieved during the manufacturing process by passing the extruded tape through a fibrillation roller before being converted into a twisted twine. This process brings softness and flexibility to the twine that is essential to achieving the optimum performance and knot creation.

Manufacturers who only stripe the twine cannot reach the same level of softness or flexibility. Fibrillated twine can be recognised by the mesh-like appearance that can be seen when the twine is stretched. All our twine is thoroughly tested.
**EPICROP** - Baling Twine

A comprehensive range of high quality twines are available and they are suitable for use on the most advanced baling machinery throughout the season.

**EPICROP** Baling Twine offers you:

✓ High quality twine.
✓ High strength and consistent length.
✓ Perfect spool shape with a unique ID.
✓ Improved knot performance.
✓ High bale density and UV stabilised.
✓ Guaranteeing the strongest knot and a high breaking strain.
✓ More operational efficiency and universal application.
✓ Smooth running - minimises wear and tear on the knotting system.

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**REFERENCE EPICROP STANDARD EPICROP 355 EPICROP 430**

<table>
<thead>
<tr>
<th>Application</th>
<th>Lower Density Balers</th>
<th>Hay/ Silage Seasonal</th>
<th>Silage &amp; Hay for Med Balers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Runnage (m/kg)</td>
<td>132</td>
<td>127</td>
<td>110</td>
</tr>
<tr>
<td>Knot Strength (kg)</td>
<td>181</td>
<td>220</td>
<td>280</td>
</tr>
<tr>
<td>Colour</td>
<td>Ferric Oxide</td>
<td>Ferric Oxide</td>
<td>Grey</td>
</tr>
<tr>
<td>Pack Weight (kg)</td>
<td>16.5</td>
<td>17</td>
<td>20</td>
</tr>
<tr>
<td>Pack Runnage (m)</td>
<td>2200</td>
<td>2750</td>
<td>3200</td>
</tr>
<tr>
<td>Packs per pallet</td>
<td>56</td>
<td>56</td>
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</tr>
<tr>
<td>Pallets per 40’ Container</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Pallets per Truck</td>
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<td>22</td>
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</tr>
</tbody>
</table>

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**REFERENCE SISAL 8000 HA Y 488 MEDIUM 12000 FINE 22300**

<table>
<thead>
<tr>
<th>Application</th>
<th>High Density Balers</th>
<th>Med/Bal Pick up</th>
<th>For use of all Round Balers</th>
<th>Round small Round Balers</th>
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</thead>
<tbody>
<tr>
<td>Runnage (m/kg)</td>
<td>155</td>
<td>130</td>
<td>110</td>
<td>90</td>
</tr>
<tr>
<td>Knot Strength (kg)</td>
<td>72</td>
<td>85</td>
<td>60</td>
<td>75</td>
</tr>
<tr>
<td>Colour</td>
<td>Gold</td>
<td>Ferric Oxide</td>
<td>Ferric Oxide</td>
<td>Blue</td>
</tr>
<tr>
<td>Pack Weight (kg)</td>
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<td>10</td>
<td>80</td>
<td>150</td>
</tr>
<tr>
<td>Pack Runnage (m)</td>
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<td>3100</td>
<td>3100</td>
<td>6700</td>
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<tr>
<td>Packs per pallet</td>
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<td>80</td>
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<tr>
<td>Pallets per 40’ Container</td>
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<td>24</td>
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<tr>
<td>Pallets per Truck</td>
<td>22</td>
<td>24</td>
<td>28</td>
<td>22</td>
</tr>
</tbody>
</table>

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**EPICROP** - Silage Tape

A high strength, strong adhesive PVC Tape which can be used throughout many different areas on the farm.

Epicrop Silage Tape is available in a variety of colours:
Professional Storage Solutions for Grains and Fodder.

**Advantages**

- ✓ No initial investment, unlike permanent silos.
- ✓ Higher nutritional values than with traditional systems.
- ✓ Better storage of product gaining advantage of the hermetically modified atmosphere created by GrainPack.
- ✓ Silage bags can be used in any flat area with good drainage.
- ✓ More flexibility with storage requirements due to various dimensions.
- ✓ Easy sampling of the stored product to assure the best livestock feeding.
- ✓ Low exposure to oxygen during the filling and storing process, meaning less plant respiration, lower temperature, and a faster fermentation process.
- ✓ Hermetically sealed which prevents aerobic bacteria and insects from thriving, and is free of chemical treatments (insecticides).
- ✓ Minimum gaseous, seepage and spoilage losses while filling and feeding out the stored product compared with other silage methods.

**Applications**

**Dry GrainPack**

- Stocking corn (maize), soy, wheat, sunflower, rice, sorghum, alfalfa, barley, rye, oats and rapeseed as well as by-products such as malt.
- The grain passes directly from the hopper to the silo and you can take your grain harvest at any time depending on the quality classification you have made.

**Moist GrainPack**

- Moist grain is found in almost all animal feed systems thanks to its high nutritional value enhancing animal fattening.
- Corn (maize) and sorghum are the most commonly moist grains stored.
- Harvesting is carried out when the percentage of moisture is between 28% and 35%. Depending on the farmer's needs, harvesting could be brought forward by up to 45 days enabling crop rotation and avoiding losses due to bird damage and weed growth.
- Thanks to its high flexibility, accepts moist grain filling such as malt or industrial sub-products.

**Fodder GrainPack**

- Intensive cattle breeding farms store fermented fodder with high nutritional value close to feeding stations in the field.
- Location of the GrainPack should be on a leveled surface with good drainage and protected against livestock and rodent attack.
- Moisture should be between 58% and 65% to assist lactic fermentation and avoid sugar and protein loss due to effluents.
- When filling the bag, Nitrogen oxides may be produced affecting negatively fermentation. By degassing them we keep our fodder safe.
- Losses due to oxidation when opening the GrainPack to remove fodder are less compared to traditional bunker silage.

**Compost**

- Our Silage Bags can easily store compost without prior investments as in traditional storage systems.

---

**Diameter (ft) | 5 | 5,2 | 6 | 6,5 | 8 | 9 | 10 | 11 | 12**

**Thickness (μm) depends on the application**

**01 Superior mechanical properties**

Enhanced mechanical properties to eliminate perforations and ripping during filling procedures.

**02 Product design**

Specially formulated for resistance to high solar radiation and extreme temperature conditions.

**03 Maximum storage & fermentation**

Thanks to our black/white multi-layer co-extruded silage bag.

**04 Perfect fit**

Adapted to all bagging machines available on the market.
1. General
No variation, calculation, waiver of or addition to the contract constitutes or by our invoice and by conditions of sale shall be valid or approved unless agreed in writing by Zeus Packaging Ltd.

2. Where an order has been taken by an employee or agent elsewhere than at our principal place of business we shall have the right for seven days afterwards to decline the order in whole or in part at our discretion and without being required to give any reason.

3. The company accepts to supply on basis of customers written order only, and all special customer specifications must be expressly stated on customers written order and acknowledged expressly on Zeus Packaging Limited invoice by specific cross reference.

4. Delivery date and risk
Any delivery date specified or otherwise given by us is approximate and is not a contract term and we retain the right to enter any premises of yours and confiscate any goods in terms of this order and that the present order may be approved unless agreed in writing by Zeus Packaging Ltd.

5. Claims
(a) No claim by you for defective goods will be entertained unless notification of such claim is received in writing within 7 days of the receipt of the goods by you. Should such a claim be received by us, it will be considered in the light of all other conditions of this order and without prejudice to any rights we may have under those conditions.
(b) If in respect of any one delivery of any goods, several items in excess of normal commercial tolerance are alleged to be defective or damaged you will informus pursuant to the provisions of sub-paragraph [a] above and you shall before the expiration of 7 days of receipt of the goods by you return at your expense item of the defective or damaged goods for inspection to us. If, thereafter, the goods are accepted by us to be defective or damaged then you will return such defective or damaged items to us and we will either replace the same and credit you with the cost of freight and insurance in returning all defective or damaged items to us or we will credit you with the selling price to you (ex our warehouse) of the defective or damaged items and also the costs of freight and insurance in returning same to us.
(c) Defective or damaged goods must be dispatched to us within 7 days of our accepting that they are defective or damaged.
(d) Under no circumstances will we be liable to reimburse you in any way whatsoever for any loss of profits that you may suffer.
(e) No claim under these conditions in respect of any delivery or part delivery of an order for goods shall entitle you to cancel the remainder of order or contract.
(f) If a delivery note pro of proof of delivery is signed clear, unchecked or is unwarranted and a subsequent problem with the delivery is discovered, a credit will not be issued. Credits will only be issued if shortages and returns have been noted on the delivery note/ proof of delivery.
6. Title of Goods
Any goods supplied in terms of our invoice remain property until such time as the contract price together with any interest there on accruing have been paid in full. We retain the right to disposal accordingly and in pursuance thereof you hereby irrevocably grant to us and/or our /your authorised representative license to enter on any premises of yours on which such goods are kept for the purpose of taking possession of any such goods to which we are entitled hereunder in the event of the contract being cancelled or any cause whatsoever. In the event that the goods supplied under this or any other invoices by us have been sold or damaged in any fashion or otherwise disposed of and the payment date having passed we retain the right to enter any premises of yours and confiscate any similar goods at a term price to be determined by ourselves.
7. Delay or Cancellation
If any delivery is delayed or canceled by us due to force-majeure, dissolution of manufacture, strikes and lock-up (whether inside or outside our works) or other circumstances reasonably beyond our control it is agreed that we are released from our obligations to supply the goods in terms of this order and that the present order may be delayed or suspended during the continuance of such circumstances or canceled by us at our option. We shall inform you of such circumstances without delay.
8. Set off
Any moneys due or to become due from you shall not be liable to become the subject of any deduction by you or any set-off or counter claims arising out of this or any other order which we may have with you.
9. Withhold of Delivery
If you have not paid us for goods delivered in accordance with these conditions then we shall have the right to hold delivery of any further goods to be supplied by us, whether under the terms of this order or any other order, until you have reduced that amount owing by you to us to such a reasonable level as may be acceptable to us. Any such withholding shall not entitle you to cancel any order or part thereof.
10. Your Default
If you shall make any default or commit a breach of these conditions or if any distress or execution shall be levied upon your assets, or if you shall make any arrangements or composition with creditors, or commit any act of bankruptcy, or if any petition or receiver ordering in bankruptcy shall be made against you, if you are a limited company and any resolution or petition to wind up such company’s business (rather than for the purpose of amalgamation or reconstitution) shall be passed or presented, or if a receiver of such company’s undertaking or assets or any part thereof shall be appointed we shall have the right forthwith to determine any contract then subsisting between us and upon written notice of such determination being posted to you at your last known address any subsisting contracts between us shall be deemed to have been determined without prejudice to any claim or rights we may otherwise make or exercise. In the event of any breach of contract by you as a result of which we incur any legal fees, such proper and reasonable fees are to be borne by you.
11. Availability of Materials
Whilst we shall make every effort to supply in accordance with your order we reserve the right to supply substitute colour and materials of a similar quality and nature in the event of unavailability of material and/or inks.
12. CONSEQUENTIAL OR SPECIAL DAMAGE
We shall not be liable for any consequential or special damage resulting from the sale delay in or failure to supply or failure of the goods, including without limitations, loss or profits.
13. Indemnity
We shall not be liable for any claims whether brought against you or us at Cameron Law under any Statute or otherwise by any person or legal entity arising out of this or any other order which we may have with you except as provided herein and you shall indemnify us against any such claims and the proper and reasonable costs of any such legal proceedings.
14. Copyright
The copyright in any goods, artwork, designs and plates furnished by us shall not be subject to the trade mark and copyrights of any such goods in the normal course of your business.
15. Enforceability of Terms
In the event of any clause in this Contract being found by a Court or arbitrator to be void or unenforceable in whole or part then such findings shall in no way affect the validity and enforceability of any other clause or clauses.
16. Governing Law
The order in any contract which may ensue shall be construed and governed in all respects according to Irish Law and the any court having jurisdiction to try any issue hereunder shall be the High Court of Justice in Dublin or such other court in the Republic of Ireland as shall be appropriate.
17. Under no circumstances will any claims be entertained for goods which have been crooked or processed in any way.
18. All specifications on products are subject to manufacturer tolerances +/— 10%.

Terms & Conditions

Purple Bale Charity Initiative

Zeus, in conjunction with local partners, will distribute Silage Wrap & Net Wrap in the unusual colour Purple, across Ireland, UK, Portugal, Australia and New Zealand.

We are asking farmers and contractors to show their support to this initiative by creating eye-catching displays with their purple hay bales, then posting their creations on social media with a special competition marking the best efforts. We’re sure that farmers will get behind this initiative, as every bale wrapped in purple will lead to a donation supporting seriously ill children and their families.
UK OFFICES

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East Midlands
Gretton Brook Road, Earlstrees Ind Estate, Corby, Northants, NN17 4BA

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Barlow Drive, West Bromwich, West Midlands, B70 6BG

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34 Europa Way, Martineau Lane, Norwich, Norfolk, NR1 2EN

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