



FASTENING SOLUTIONS  
FOR GROWERS

# BIODEGRADABLE RANGE



# ARAYMOND AGRICULTURE

Smart and Innovative solutions for growers

*The ARaymond Agriculture objective is to offer its clients innovative solutions, combining service and high value-added products.*



*In response to agricultural productivity problems, ARaymond has designed and developed creative solutions enabling significant gains on fastening time and yields. With the compostable range the use of biodegradable materials that respect the environment is favored whenever possible.*

Client-oriented culture, social commitment, teamwork, integrity, honesty and respect for the environment are all core values within the company, as evidenced by the support for international initiatives such as Tree-Nation and The United Nations Global Compact.

Consistent with its environmental commitment, in addition to its traditional range, ARaymond Agriculture offers a range of biodegradable solutions, combining productivity and a greater respect for nature.

“ARaymond continuously develops and launches innovative solutions to add value to our end users and partners.”

MIQUEL PEREZ  
Business Unit Manager  
ARaymond Agriculture, Spain



GREENHOUSE CLIPS



GREENHOUSE SUPPORTS

# ARAYMOND AGRICULTURE

## Environmental commitment

*ARaymond Agriculture is committed to developing innovative new products by investing in the research and development of materials which respect both terrestrial and marine ecosystems.*



*All ARaymond Agriculture products adhere to the very highest standards of quality in terms of material properties and production.*

Additionally, all ARaymond solutions can be recovered and reused during multiple production cycles.

At ARaymond Agriculture, we believe in the importance of developing sustainable agriculture as a response to all the critical environmental problems which the world is facing today. We believe that responsible agriculture and the development of sustainable and recyclable products are crucial for both the agricultural sector and society.



# Certification NF EN 14995 & EN 13432

*In order to meet the growing demand from clients for efficient and recyclable products whilst helping producers reach their environmental goals, ARaymond Agriculture team have developed a range of biodegradable fastening solutions.*

*Dedicated to producing innovative products which meet the same high standards of quality and efficiency as our plastic range, in 2018, ARaymond's biodegradable clips and twine were certified as NF EN 14995.*



Awarded using internationally-recognised standards, this label guarantees biodegradability in industrial composting conditions in accordance with the requirements of the European standard EN 14995 for ARaymond's entire range of biodegradable greenhouse clips and supports.

Adaptable and sustainable, the ARaymond biodegradable solutions include Easy and Classic greenhouse clips for tomato, cucumber and pepper crops.

FlexTruss and TwinHook supports for plant protection in addition to our 100% compostable biodegradable twine.

# EASY 14mm

*Designed specifically for greenhouse production, ARaymond's Easy 14mm Bio clip is a biodegradable fastening solution for cucumber plants*



## PROTECTIVE DESIGN

The Easy Clip has a strong small connector and curved rims to reduce damage to the plant and fruits.

## OPTIMIZED DESIGN

The compact design of the Easy Clip allows larger quantities per box and decreases the freight costs.



## LATCH CONNECTION

The audible "click" confirms the Easy Clip is closed when in place.



Easy and fast installation  
Larger quantities per box  
Respectful design for cultivation



Offering the same excellent performance as ARaymond's plastic fastening solutions, the Easy 14mm Bio clip features an **easy-to-use positioning system plus a twine guide to ensure fast clipping within the greenhouse environment.**

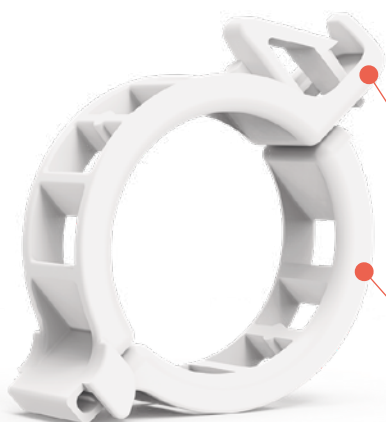
**A robust solution for cucumber growers,** the Easy 14mm Bio clips are quick and easy to install, emitting an audible click once locked into place on the plant stem. The ergonomic design supports and **protects the delicate plants** whilst air vents within the clip ensure maximum light exposure and **reduce the risk of Botrytis and Fusarium** amongst the cucumber crops. An environmentally-friendly solution for

growers, the Easy 14mm Bio clips are made from entirely compostable materials and are fully certified EN 14995 for truly sustainable cultivation.

**Streamlined and lightweight,** the Easy 14mm Bio clip's enhanced design also allows ARaymond to optimise packaging and shipping costs increasing end-to-end supply chain efficiency for our customers.

# CLASSIC 21S

*One of the bestselling clips in ARaymond's catalogue, the Classic Clip 21S Bio is a biodegradable greenhouse clip for use with tomato plants.*



## LATCH CONNECTION

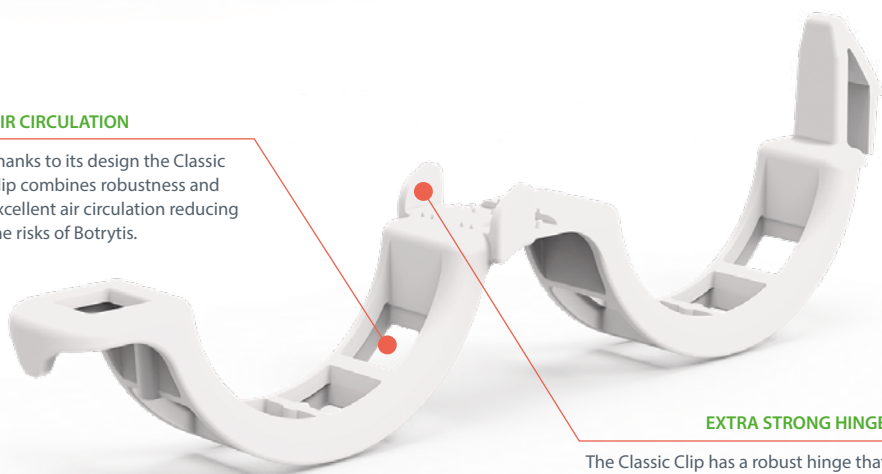
The Classic Clip has a robust latch with audible "click", that confirms it is closed when in place.

## ROUNDED SHAPE

The design has a round shape with rounded edges to reduce damage to the plants and fruits. It has some flexibility, but still maintains the stress resistance.

## AIR CIRCULATION

Thanks to its design the Classic Clip combines robustness and excellent air circulation reducing the risks of Botrytis.



## EXTRA STRONG HINGE

The Classic Clip has a robust hinge that keeps its function, even when re-clipping. It reduces torsion, avoids mis-clipping and improves gripping of the twine.





Easy and fast installation  
Robust fastening system  
Respectful design for cultivation



Created to meet the growing demand for robust biodegradable products across the agriculture sector, the **Classic Clip 21S Bio** reflects ARaymond's commitment to ensuring sustainability for growers whilst delivering high-quality fastening solutions.

Designed with ARaymond's signature rounded form and sturdy locking mechanism, the Classic Clip 21S Bio features large air-holes to provide optimal light and air flow within the greenhouse environment.

**Easy to install and position** thanks to its rounded shape, the Classic Clip 21S Bio also features a robust hinge with extra grips to **ensure maximum security once clipped onto the twine.**

Fully certified EN 14995, the Classic Clip 21S Bio is designed for **fast composting**, allowing producers to compost their greenhouse waste quickly and easily, once the life cycle of their crops is complete.

A value-added solution for growers, the Classic Clip 21S Bio offers all the advantages of ARaymond's traditional plastic clips with the additional benefits of reduced waste and convenient disposal for our customers.

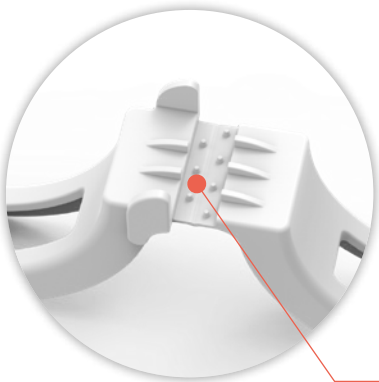
# EASY 26mm

*A greenhouse clip designed specifically for growers of larger varieties of tomato plant. ARaymond's Easy Clip 26mm Bio is one of the strongest fastening solutions on the market today.*



**STRONG GRIPPING**

The special guide integrated to the hinge eases the positioning of the twine to confirm it is in place.



**RETENTION**

The Easy Clip has 7 grips that optimize twine retention.





Easy and fast installation  
Robust fastening system  
Respectful design for cultivation



**Developed using input from producers**, the Easy Clip 26mm Bio's larger diameter and sturdy locking system ensure **it can support large-scale tomato crops without damaging the plant's branches** during the growth period.

Featuring ARaymond's distinctive ergonomic design, the Easy Clip 26mm Bio is **quick and simple to use**, emitting an audible click when locked into place on the plant stems. The twine guide allows growers to easily position the clips securely while large air vents increase air circulation and **reduce the risk of Botrytis** amongst the greenhouse tomato crops. **A sustainable fastening**

**solution** which offers the same exceptional performance as our traditional plastic clips, the **Easy Clip 26mm can be reused for several growth cycles** and carries the EN 14995 label of biodegradability. Additionally, the Easy Clip 26mm's compact size also allows ARaymond to optimise packing and shipping of the clips thereby reducing freight costs for our customers.

# FLEXTRUSS

*A versatile support system for tomato plants, ARaymond's FlexTruss Support Bio protects greenhouse crops throughout their growth cycle by preventing stems and trusses from splitting under the weight of the fruit.*

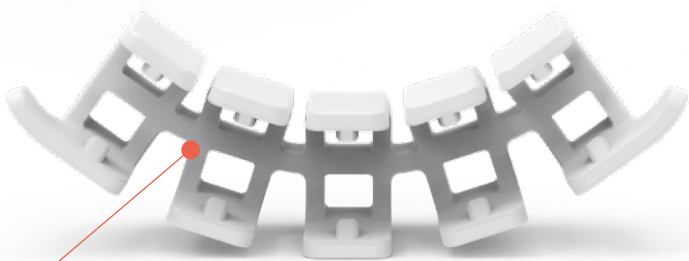
### ERGONOMIC DESIGN

Thanks to its flexibility, the FlexTruss can be installed straight on the stem. It is thus faster and easier to install and saves labor costs.



### SELF-ADAPTIVE

With its flexible back-bone, the FlexTruss adapts naturally to the growth of the stem and fruits. It avoids forcing the stems and reduces the risk of breaking.



### ONE SIZE FITS ALL DESIGN

The FlexTruss adapts to most stem sizes and varieties, almost all along the life-cycle of the plant in the season.



Easy and fast installation  
Robust fastening system  
Respectful design for cultivation



With its innovative **one-size-fits-all design**, the FlexTruss Support Bio is **quick and easy to use** saving growers both time and labour during installation.

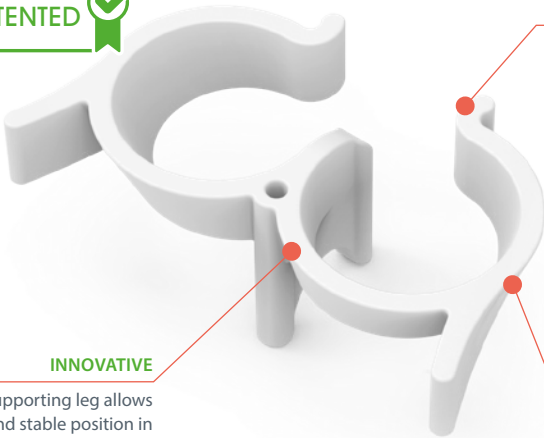
Designed to offer growers maximum flexibility, the FlexTruss Support Bio features rounded edges and legs for optimal installation with no damage to the plants. An adjustable back-bone allows the FlexTruss to adapt to nearly all sizes and varieties of tomato plant while the smart design shape-memory technology enables each support to return to its original shape making it easier to reuse.

Practical and efficient, the FlexTruss Support Bio is an environmentally-friendly solution with all the flexibility and durability of our traditional plastic truss supports. Fully certified as biodegradable, the ARaymond FlexTruss Support Bio carries the EN 14995 label and can be safely composted with your greenhouse waste at the end of its life cycle.



# TWINHOOK

*Developed at the request of our growers, ARaymond's TwinHook BIO is an ergonomic support system designed to prevent stem split in tomato plants.*



**ONE-FITS-ALL-SIZE**

The TwinHook is adapted to most double headed tomato varieties and branch sizes, all along the life-cycle of the plant during the season.

**INNOVATIVE**

The innovative supporting leg allows an optimal and stable position in between the two shoots. The TwinHook is self-positioning during the growth of the plant.

**PROTECTIVE**

It prevents the main branch from splitting under the weight of the stems when lowering the plant, reducing the risk of Botrytis.



Without TwinHook



With TwinHook



Eliminates weakness, damage and reduces risk of disease

Easy and fast installation

Optimised design for cultivation

One size fits all design



Made from fully **biodegradable and compostable raw materials**, the TwinHook BIO features a unique **one size-fits-all design** which can be adapted for use with most double-headed tomato plants in a greenhouse environment.

Featuring rounded edges to reduce the risk of plant damage, the **TwinHook Bio is quick and easy to use** with just one TwinHook needed to replace the traditional solution of twisting 2 clips together.

Once installed, a supporting leg provides optimised positioning to stabilise the TwinHook and **prevent splitting at the node** as the heavy fruit grows and lowers the tomato plants. A **cost-effective solution** for

producers, the TwinHook Bio helps growers to protect their crops by supporting trusses which may otherwise be broken during the growth stages of the tomato plants.

This enhanced protection in turn helps reduce the risk of botrytis and restriction of sap flow allowing producers to enjoy optimal growing conditions and increased crop yields thanks to the TwinHook Bio supports.

## ARAYMOND TECNIACERO SAU

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