# **CLIMAVORE** Polyculture Intertidal Farm Stage 01 - Feasibility Study

**Material Test Options** 

# CLIMAVORE Polyculture Intertidal Farm - Stage 01 - Feasibility Study ECOLOGICAL SURVEY TEST **MATERIAL : MESH TUBE**

#### Material:



#### Species Seaweed **Mussels**

#### Description

Cotton Strands Bisect Square Mesh, Sold for Mussel Cultivation, Available in Rolls or cut to length.

All ropes suspended from four posts in seabed, that collectively cover 4000mm x 5500mm.

#### Installation:

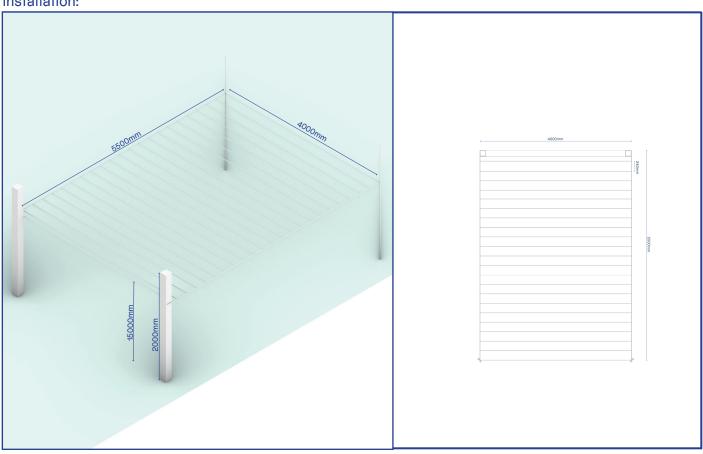
Precident:



#### Specs

40mm diameter cotton mesh, 1.140 liter volume, will hold seed size 9mm.

Testing **Ecological Survey** 



# CLIMAVORE Polyculture Intertidal Farm - Stage 01 - Feasibility Study ECOLOGICAL SURVEY TEST MATERIAL : BASKETTRY

#### Material:



#### Species

For dividing between growing areas / growing seaweed / gathering product

#### Description

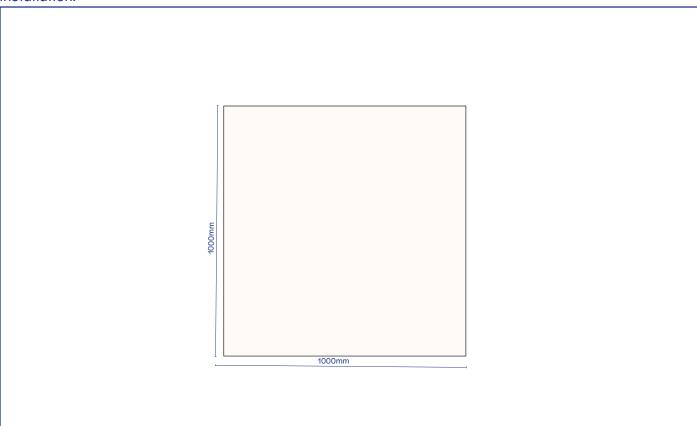
Woven basketry used to be used as gates in the large fish traps in Skye, to trap the fish in. Woven basketry is also used in smaller fishtrap devices throughout the world. Precident:



#### Specs

1000mm x 1000mm, woven panel, held up by metal bars.

#### Testing Ecological Survey : Woven face



# CLIMAVORE Polyculture Intertidal Farm - Stage 01 - Feasibility Study ECOLOGICAL SURVEY TEST MATERIAL : ROPE : HEMP

#### Material:



Species Seaweed

Description Hemp Rope, manufactured at Chatham Master Ropemakers.

All ropes suspended from four posts in seabed, that collectively cover 4000mm x 5500mm.

Precident:

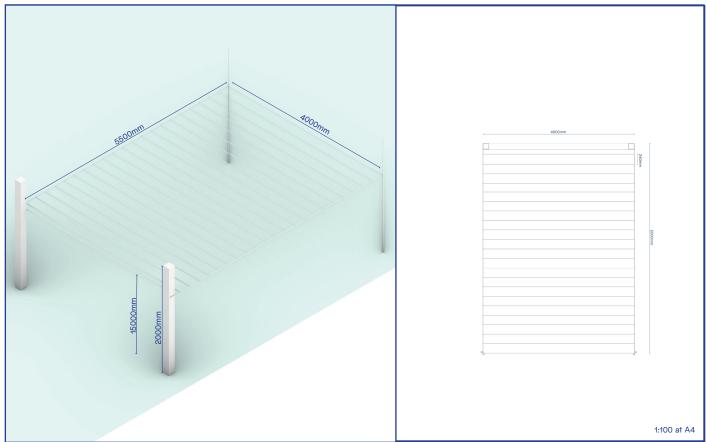


Specs Material: Hemp 3 Strand Twist Length of Rope: 4000mm

Diameters of Rope : 12mm

Testing Ecological Survey

(Sample of rope, cut away from main installation)



# CLIMAVORE Polyculture Intertidal Farm - Stage 01 - Feasibility Study ECOLOGICAL SURVEY TEST MATERIAL : ROPE : MANILLA

#### Material:



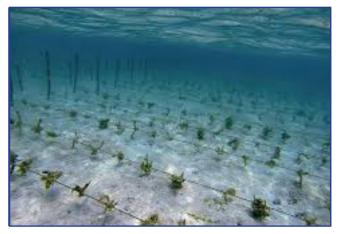
#### Species Seaweed Mussels

#### Description

Manila hemp is a type of fiber obtained from the leaves of the abacá. Manila rope is very durable, flexible, and resistant to salt water damage, allowing its use in rope, hawsers, ships' lines, and fishing nets.

All ropes suspended from four posts in seabed, that collectively cover 4000mm x 5500mm. Installation:

Precident:

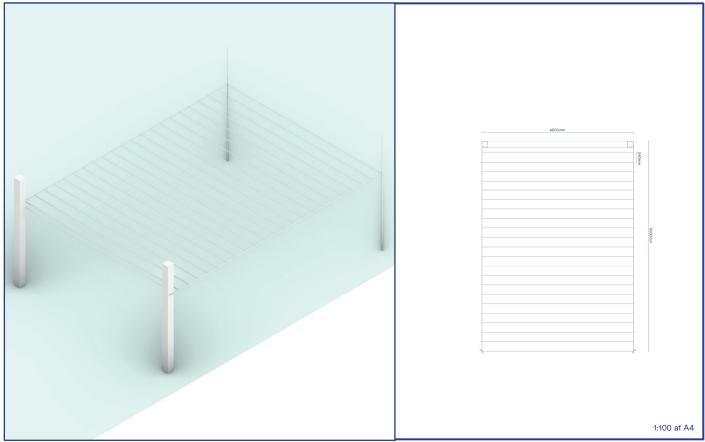


Specs Material: Manilla 3 Strand Twist Length of Rope: 4000mm

Diameters of Rope : 12mm

Testing Ecological Survey

(Sample of rope, cut away from main installation)



# CLIMAVORE Polyculture Intertidal Farm - Stage 01 - Feasibility Study ECOLOGICAL SURVEY TEST MATERIAL : ROPE : SISAL

#### Material:



#### Species Seaweed

#### Description

**Sisal, manufactured and hand-tied at Chatham Master Ropemakers.** Sisal Rope is a natural fibre rope and is made from the yarns of Agava Sisalana. Sisal rope is strong, especially resistant to sunlight, durable, and resistance to deterioration in saltwater.

All ropes suspended from four posts in seabed, that collectively cover 4000mm x 5500mm. Installation:

Precident:

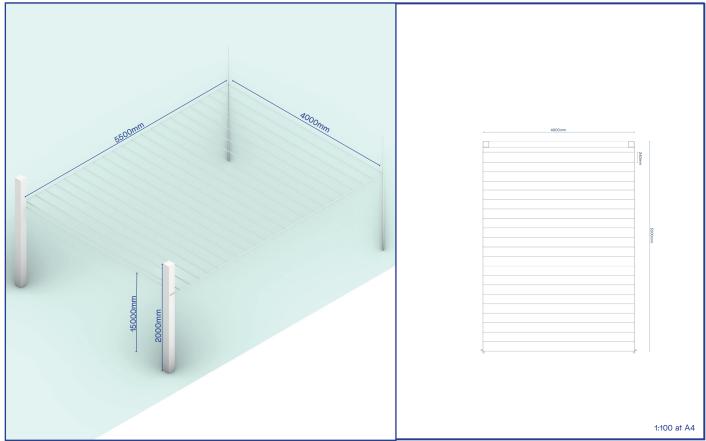


Specs Material: Sisal 3 Strand Twist Length of Rope: 4000mm

Diameters of Rope : 12mm

Testing Ecological Survey

(Sample of rope, cut away from main installation)



# CLIMAVORE Polyculture Intertidal Farm - Stage 01 - Feasibility Study ECOLOGICAL SURVEY TEST MATERIAL : ROPE : PLASTIC

#### Material:



#### Species Seaweed Mussels

#### Description Nylon Rope

All ropes suspended from four posts in seabed, that collectively cover 4000mm x 5500mm.

#### Precident:

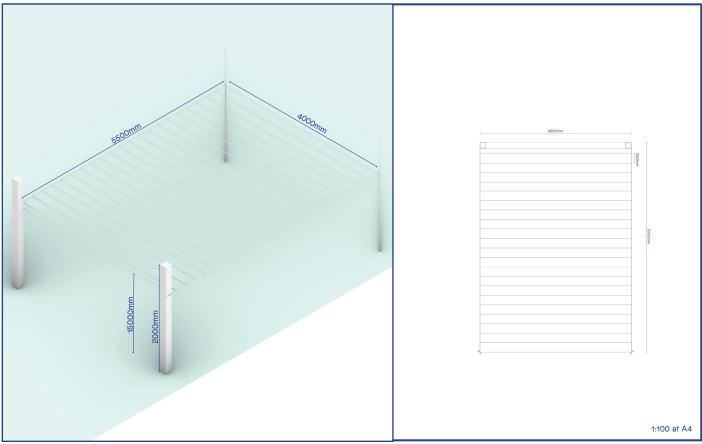


Specs Material: Sisal 3 Strand Twist Length of Rope: 4000mm

Diameters of Rope : 12mm

Testing Ecological Survey

(Sample of rope, cut away from main installation)



# CLIMAVORE Polyculture Intertidal Farm - Stage 01 - Feasibility Study ECOLOGICAL SURVEY TEST MATERIAL : ROPE : JUTE

#### Material:



Species Seaweed Mussels

#### Description

Installation:

Jute Rope, manufactured and hand-tied at Chatham Master Ropemakers, from jute yarn sourced in the UK.

All ropes suspended from four posts in seabed, that collectively cover 4000mm x 5500mm.

#### Precident:



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Specs Material: Jute 3 Strand Twist Length of Rope: 4000mm

Diameters of Rope : 12mm

Testing Ecological Survey

(Sample of rope, cut away from main installation)

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# CLIMAVORE Polyculture Intertidal Farm - Stage 01 - Feasibility Study ECOLOGICAL SURVEY TEST MATERIAL : SANDSTONE ROCK - DIFFERENT TEXTURES

#### Material:



Species All

#### Description

Sandstone Rock is cut with five different finishes to test interaction with species. Sandstone rock is often beneficial to species as it is rich in calcium. Finishes will be cut in 60mm panels, on everyside.

Local rock to Skye, sourced through Skye Stone Masons.

#### Installation:

Precident:



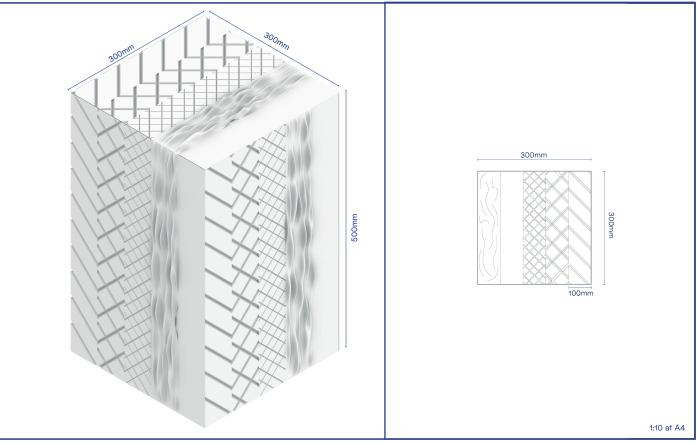
Specs Dimensions : 300mm x 300mm x 500mm

5 different finishes: Rough, Smooth, 10mm grooves, 20mm grooves, 30mm grooves

Positioned in 3 depths / locations

Testing Ecological Survey

(Sample of rough edge, from each location)



# CLIMAVORE Polyculture Intertidal Farm - Stage 01 - Feasibility Study ECOLOGICAL SURVEY TEST MATERIAL : LIMESTONE ROCK - DIFFERENT TEXTURES

#### Material:



#### Species All

#### Description

Limestone Rock is cut with five different finishes to test interaction with species. Limestone rock is often beneficial to species as it is rich in calcium. Finishes will be cut in 60mm panels, on everyside.

Local rock to Skye, sourced through Skye Stone Masons.

#### Installation:

Precident:



### Specs

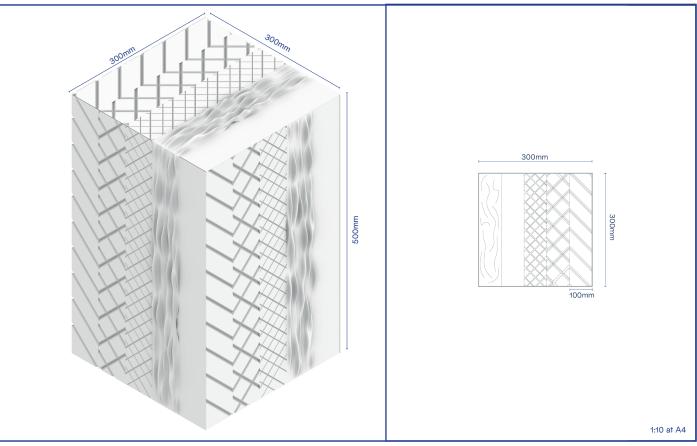
Dimensions : 300mm x 300mm x 500mm

5 different finishes: Rough, Smooth, 10mm grooves, 20mm grooves, 30mm grooves

Positioned in 3 depths / locations

Testing Ecological Survey

(Sample of rough edge, from each )



# CLIMAVORE Polyculture Intertidal Farm - Stage 01 - Feasibility Study ECOLOGICAL SURVEY TEST MATERIAL : BASALT ROCK - DIFFERENT TEXTURES

#### Material:



Species All

#### Description

Basalt Rock is cut with five different finishes to test interaction with species. Basalt Rock is very hardwearing and will not erode in the tides. Finishes will be cut in 60mm panels, on everyside.

Local rock to Skye, sourced through Skye Stone Masons.

#### Installation:

Precident:



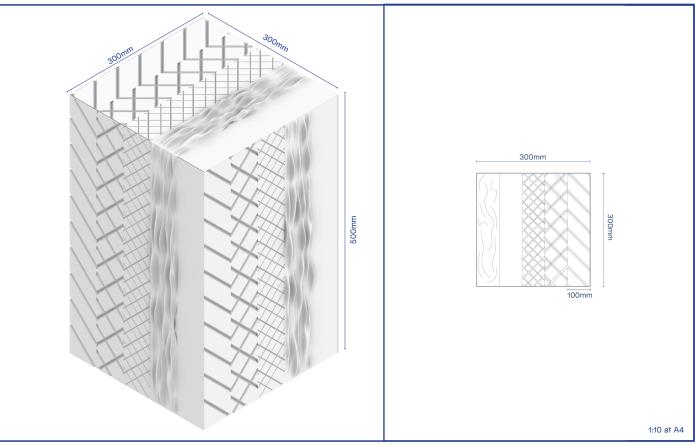
#### Specs Dimensions : 300mm x 300mm x 500mm

5 different finishes: Rough, Smooth, 10mm grooves, 20mm grooves, 30mm grooves

Positioned in 3 depths / locations

Testing Ecological Survey

(Sample of rough edge, from each )





# 03 - Structural Test

# CLIMAVORE Polyculture Intertidal Farm - Stage 01 - Feasibility Study STRUCTURAL TEST MATERIAL : WOODEN POST - OAK

#### Material:



Species Mussels

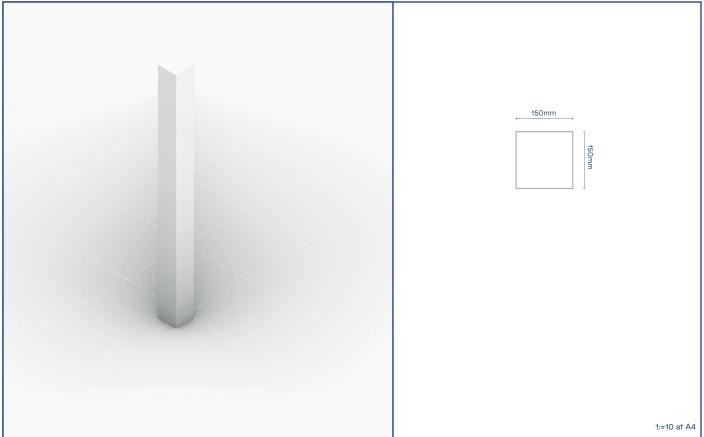
#### Description

For use as a Bouchot Poll to wrap seeded ropes around for mussel harvesting. Oak posts are tympically used as oak can withstand marine conditions without treatment. Precident:



Specs Posts are 150mm x 150mm x 2400mm

Testing Structrural Test



# CLIMAVORE Polyculture Intertidal Farm - Stage 01 - Feasibility Study STRUCTURAL TEST MATERIAL : METAL POST - STEEL REINFORCEMENT BAR

#### Material:



Species Seaweed (for supporting nets / rope)

#### Description

Used for suspending nets for seaweed growth. they would be driven within the ground. Reused from reclemation yard Precident:



Specs 1800mm in length

Diameters 10-40mm

Testing Structural Test



