



*Nature is gaining ground!*

## HYDROPACK®

**A new technique to turn your roofs green**

Hydropack 'all in one' pre-planted modular trays offer the perfect solution for low-maintenance simple to install green roofs

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*Nature is gaining ground!*

**Pioneer of green roofs in France for more than 12 years  
Le Prieuré-Vegetal ID has developed an original concept**

## **HYDROPACK®**

the pre-planted tray complete with water reservoir providing a low-maintenance green roof to meet all your ecological requirements

- ◆ **An all-in-one system**
- ◆ **Simple and quick to install**
- ◆ **Greater water storage capacity**

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## Key Features

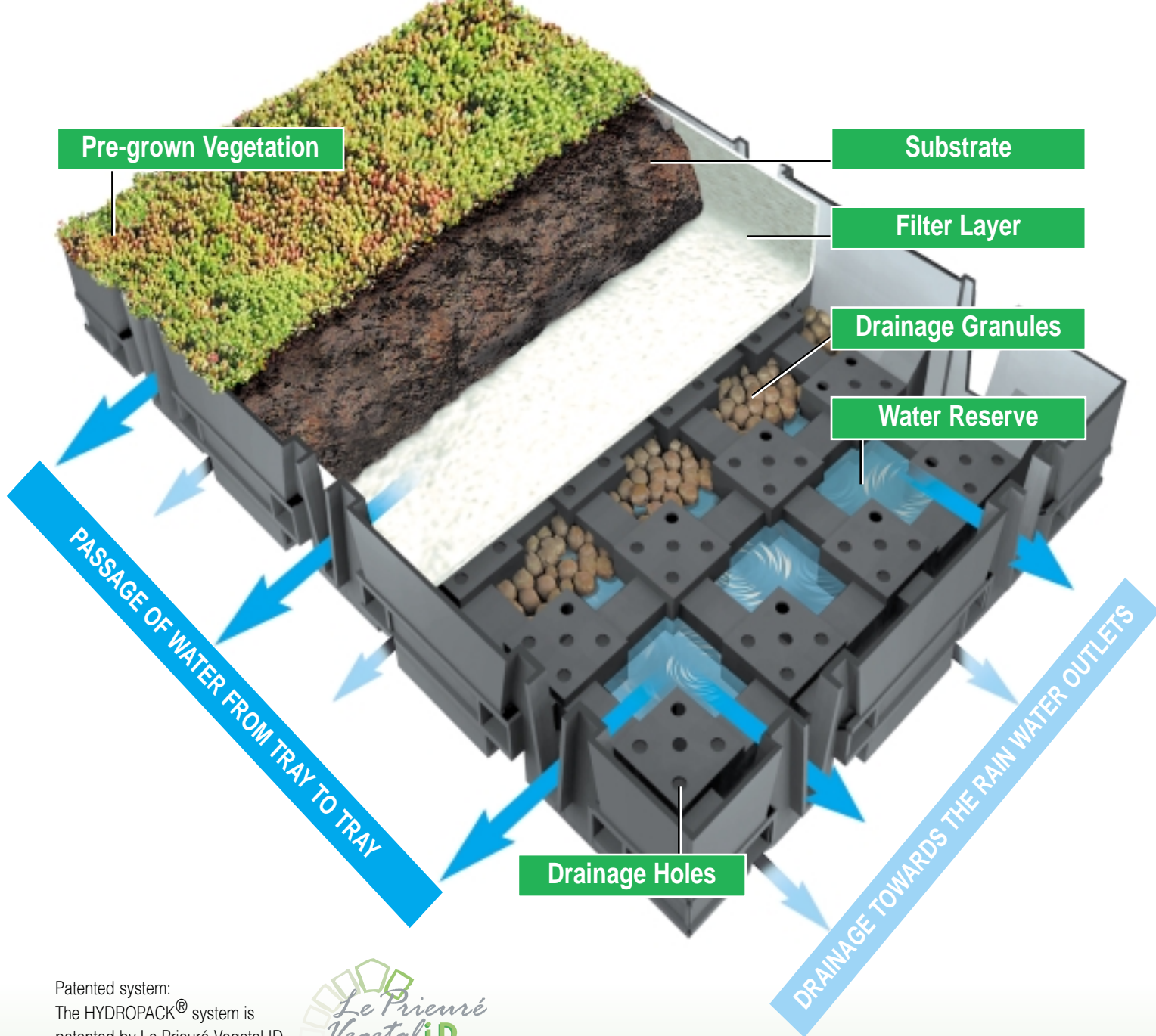
- ◆ **Pre-grown vegetation**
- ◆ **Effective drainage 500 holes/m<sup>2</sup>**
- ◆ **Water reserve 8 litres/m<sup>2</sup>**
- ◆ **Excellent water distribution**
- ◆ **Robust fixings**
- ◆ **Easy installation**



## Introduction

HYDROPACK® is a unique response to the increasing demand for extensive green roofs. HYDROPACK® is a complete extensive green roof system in a modular tray, ensuring excellent planting quality with simplicity of installation. HYDROPACK® comprises a tray manufactured from recycled high density polypropylene (HDPE), drainage granules, filter layer, growing medium and pre-grown vegetation. The trays can store up to 8 l/m<sup>2</sup> of water.





Patented system:  
 The HYDROPACK® system is  
 patented by Le Prieuré-Vegetal ID



**HYDROPACK**® distributed by  **AXTER**

# Benefits of **HYDROPACK®**

## **Water storage**

With its innovative design HYDROPACK® has an increased amount of water available for plants. They are able to grow quickly, are robust and can withstand long dry periods in the summer. Where watering is required, such as on sloping roofs, the trays help to reduce the amount of water needed for irrigation.

During violent downpours HYDROPACK® reduces and delays water run off thus lessening the demand on the drainage system. Due to its original design of interconnection HYDROPACK® has excellent water distribution properties as water can freely circulate from cell to cell and from tray to tray.

Although HYDROPACK® has exceptional water storage capacity it does have a very effective drainage system with 500 holes/m<sup>2</sup> preventing plants from suffocating, particularly important on no-slope flat roofs.

## **Immediate and certain aesthetic results**

After a growing period of 12 – 18 months in the nursery, the HYDROPACK® trays are delivered with full plant cover. Once installed the immediate effect is of a green roof and then no special maintenance is required for the first two years. (This is not the case if planting takes place on the roof).

With 12 years' experience in green roofs, the Le Prieuré nursery has combined all its

technical expertise to select the most appropriate substrates and plants (sedums principally) for positive, durable results.

The pre-planted trays can be installed all year round (except in icy conditions or periods of extreme heat). HYDROPACK® is therefore a very flexible element of the works programme.

## **An all-in-one procedure**

HYDROPACK® encompasses in one simple product all the elements of a green roof system: drainage, filter, substrate and plant material.

All that is required is to lay the trays on the waterproofing. Installation is an extremely straightforward and speedy process (no horticultural expertise is required).

The shape of the tray and the V attachment system between modules make installation of the modules an easy operation with high tensile strength.

Site logistics are made simpler – with HYDROPACK® there is one delivery and one installation operation on the roof.

HYDROPACK® is the only system which allows activity on the waterproofing

(or maintenance or repair work) without constraint. Installation or removal of trays is an easy procedure.

## **The versatile solution**

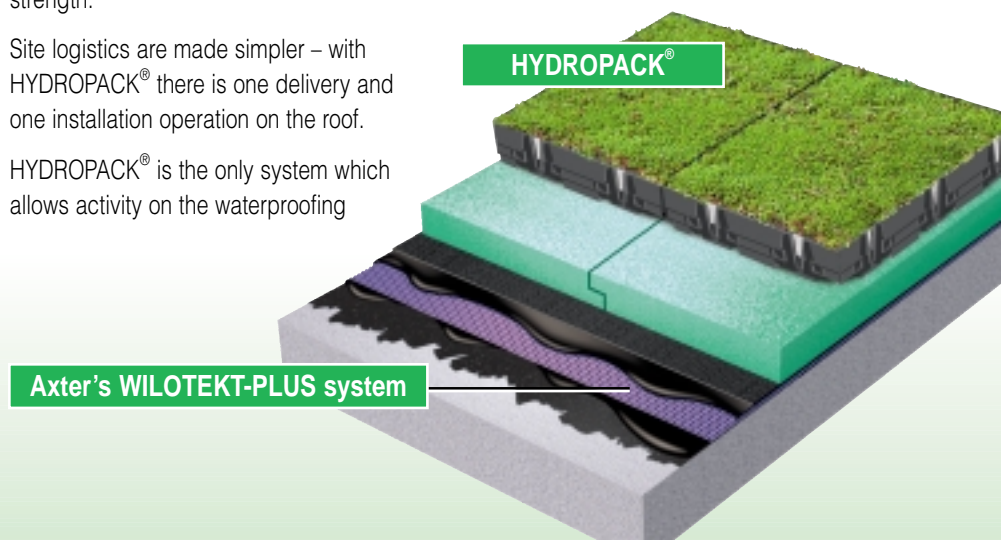
The characteristics of the water retaining tray make it perfectly adapted for use in most situations:

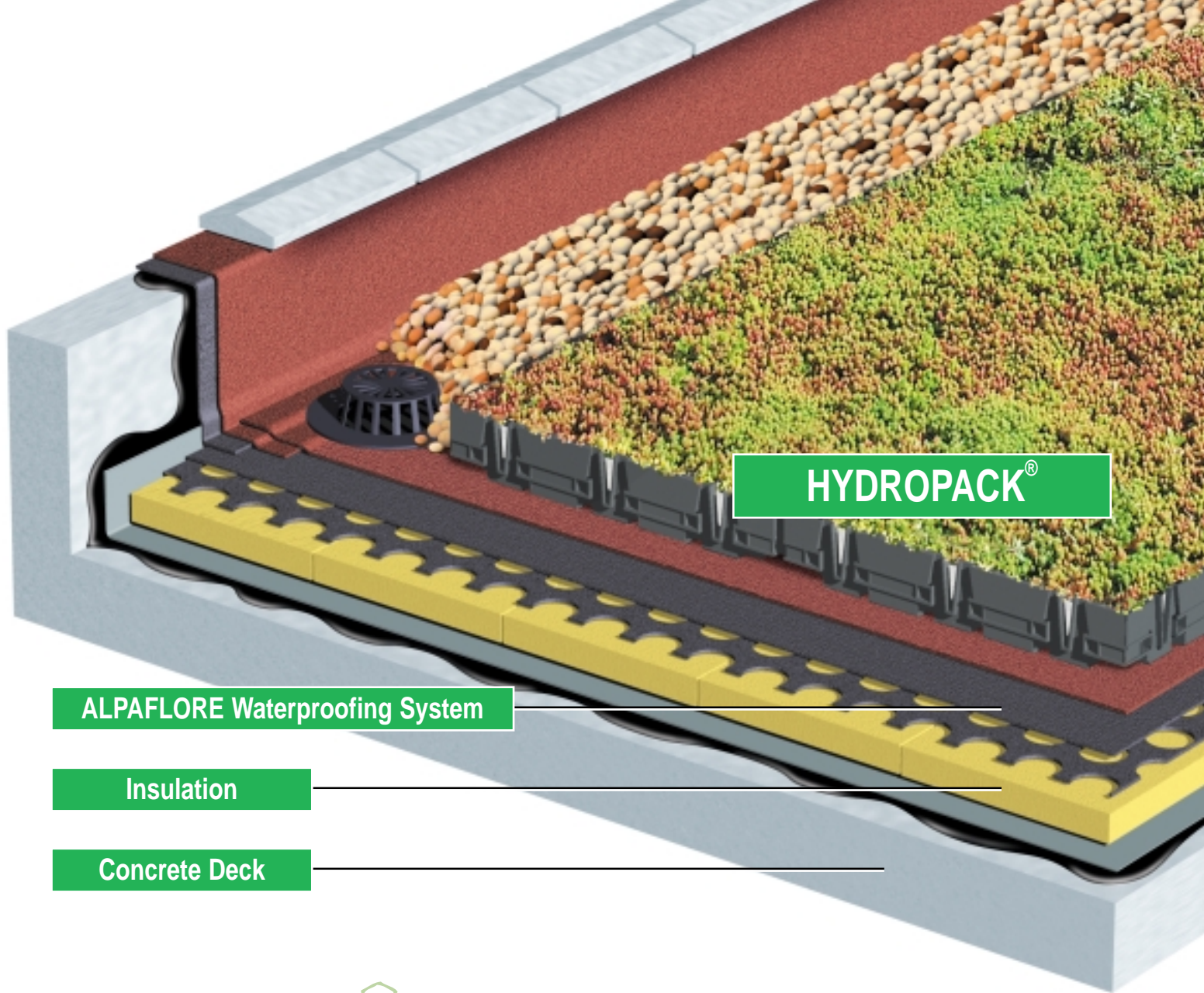
- Flat roofs
- Sloping roofs
- Roofs exposed to very strong winds

Due to the shape and rigidity of the tray installation is possible on most waterproofing decks: reinforced bitumen membranes, mastic asphalt, single-ply roofing, liquid applied roofing, etc.

## **Compatible with Axter's green roof waterproofing membranes**

HYDROPACK® is ideal for use with Axter's Wilotekt-Plus (shown below) and Alpaflora green roof waterproofing systems.





HYDROPACK®

ALPAFLORE Waterproofing System

Insulation

Concrete Deck

Patented system:  
The HYDROPACK® system is  
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# HYDROPACK®

Product Characteristics	
External dimensions per unit (without fixing system)	Length 600 mm Width 400 mm Height 90 mm
Tray material	Recycled HDPE
Thickness of substrate	6cm
Filter type	Non woven polyester
Permanent water reserve (base of tray)	8 l/m <sup>2</sup>
Maximum retention capacity of water (base of tray and substrate)	32 l/m <sup>2</sup>
Drainage <ul style="list-style-type: none"><li>– Number of drainage holes</li><li>– Total drainage surface</li></ul>	500 holes/m <sup>2</sup> 333 cm <sup>2</sup> /m <sup>2</sup>
Weight of tray <ul style="list-style-type: none"><li>– Dry</li><li>– Saturated</li></ul>	12 kg (or 50 kg/m <sup>2</sup> ) 21 kg (or 88 kg/m <sup>2</sup> )

## Installation

The HYDROPACK® tray is a very simple design; it is an “all-in-one” product which can be installed on the waterproofing membrane.

The HYDROPACK® trays are joined together using a hooking system around the edge.

No horticultural experience is required for this operation. Specialist roofing and waterproofing contractors can install the HYDROPACK® system without any difficulty.

## Maintenance

The pre-planted HYDROPACK® trays require only 1 or 2 maintenance checks on the roof per year. These checks should be carried out by the building owner or sub-contracted to a landscape or specialist contractor.

Through Axter Le Prieuré offers other planted systems: Vegetal ID multi-layer systems, with installation of pre-planted mats, micro-turf or sedum pieces. For each project the technical department at Axter Ltd carries out a technical analysis to propose the most appropriate solution.

HYDROPACK® is available in the UK and Eire from Axter Ltd.

Axter also specialises in the design and manufacture of **acoustic roofing and cladding panels, continuous roof lights, domed roof lights, roof access units, smoke & fire ventilation equipment and external wall insulated cladding panels.**

Further details on the above and the specifications contained in this document can be obtained from Axter Ltd.

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