

EARTHbay & EARTHplate

Earth

IP 65

A light spectrum for every stage of every plant.

Based on the chassis of our industry leading High Bay and packed with the latest in horticultural technology our EARTHbay and EARTHplate grow lights offer you the ability to create bespoke solutions to your growing environment whilst maintaining a rugged and durable design.



Lights on.
Grow.



Plug & Play:
Service without
an electrician



Temperature:
-25°C to +35°C



IP Rating:
Water resistant



AgriSmart Engineering



Horticultural LED Lighting



The EARTHbay & EARTHplate

Combine the EARTH range's ability to adapt to your environment with either Bluetooth™ or Wi-Fi receiver systems for all your timing & dimming requirements. Add a daylight harvesting sensor to your facility and now you can control how much or little power you use when allowing in sunlight & control all of this from your phone.

A system you can install this season, that will allow you to expand your operation next season

KEY FEATURES

- **12 Distinct spectrums**

For bespoke solutions

- **Scalable Umol intensity**

Delivering the power you need

- **Focused power of lenses**

Keep your light where you need it most

- **Locally designed & produced**

Experts close at hand

- **Fully serviceable**

Saving you time & money

- **4 kV surge protection**

Increased protection

- **Water resistant (IP65)**

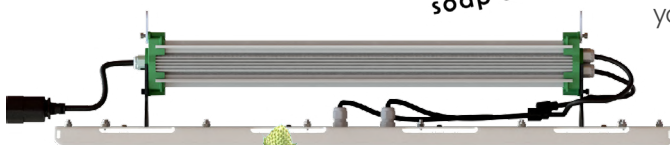
For easy watering



As a grower, you are likely chasing 3 key factors in regards to your horticultural lighting: high yield, fast growth and reliability.

Thankfully when you invest in an EARTHbay / EARTHplate system, not only are you investing in a state of the art grow light, but you're putting your trust into years of research and development into a range of tailored spectrums, a scientific understanding of lighting, a modular design that can grow with you and some truly rugged hardware that will tick all 3 of your critical factors.

We've designed our luminaires with a 5-year promise. A guarantee that means that they will deliver the µmol package in their 5th year what we sold you in their 1st. We've been able to achieve this feat by maximising the durability of our LED boards, sourcing the best drivers to power them, mitigating heat with smart design, retains integrity in wet conditions and despite an already impressive 4kV standard surge protection, provided you the option to upgrade to 10kV should you wish.



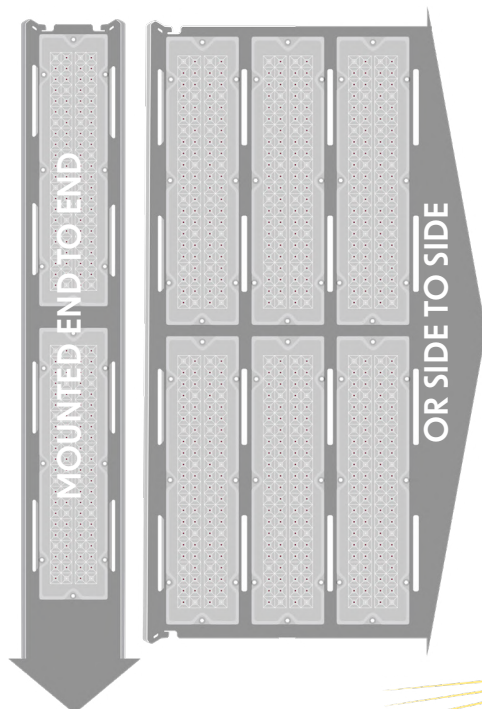
*no chemicals/alcohol





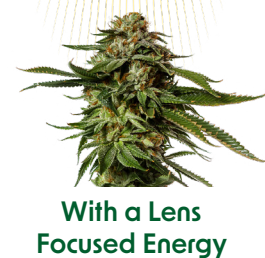
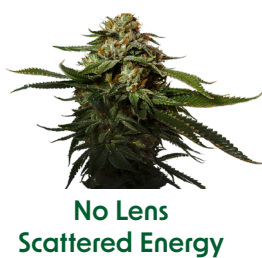
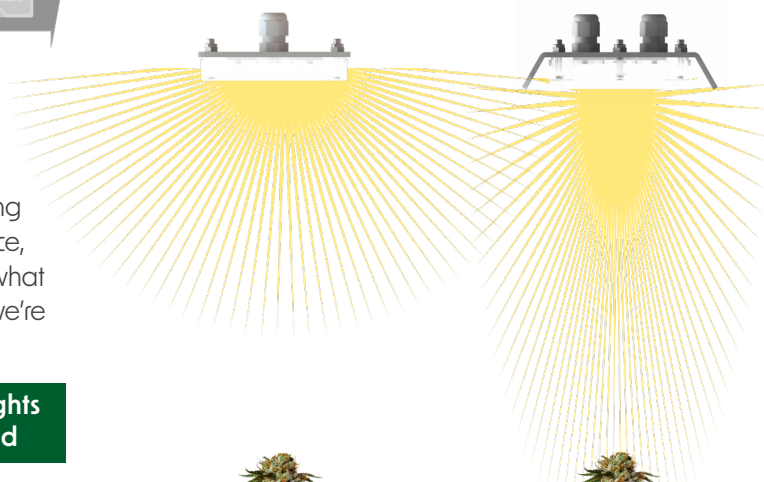
Configure

To the right examples of LED configuration options available. These include side by side, end on end or stand alone variants. Our green minded team is ever at the ready to partner with you on a solution to meet your needs.



Lenses

Lenses provide us the ability to put light where it's needed most. Growlights are not a frivolous investment, why waste precious light on walls and the walkways between your plants? Our engineers will help you find the perfect combination between height and lens to ensure that the light is focused on your plants and tuned to drive growth. Lenses also allow us to move the sweet spot further from the LED allowing EARTH growers to minimise the heat signature from the top of the canopy and ensure a safer environment for their crop without fear of bleaching or burning.



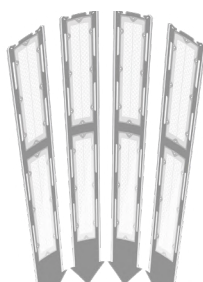
Intensity

We have the ability to cater to any horticultural intensity. This diagram illustrates how an initial design using the EARTHbay series can easily grow with your confidence, needs and budget over time so you aren't locked in to what you started with. Remember more is not always better, we're here to help you find what will work best for you.

**2 row of lights
over 1 bed**

**3 row of lights
over 1 bed**

**4 row of lights
over 1 bed**



1m

1m

1m



Each grow facility has its own unique constraints, requirements & budgets. That is why we've designed a system that is flexible enough to give you the solution that suits your needs.

Spectrums

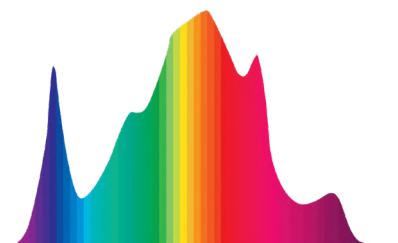
We can assist you in finding the best spectrum from over a dozen options we have on offer, covering propagation, vegging and flowering/fruitlet stages of growth, We look forward help you find the one that suits your facility, intended crop & budget best. Helping you navigate the variants to ensure a good fit for you & your needs.

Examples of 3 of our 12 available spectrums (breakdown of other spectrums available on request):

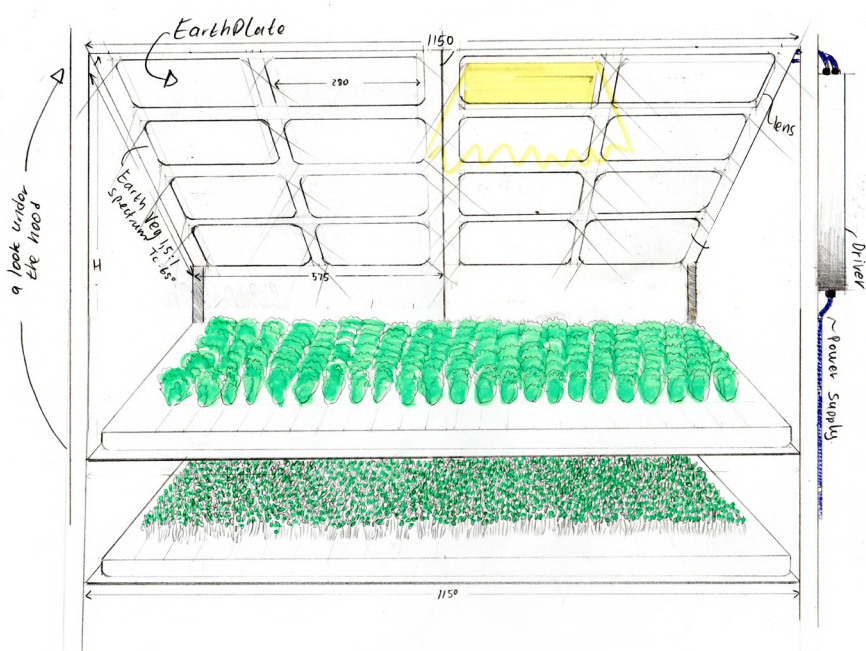
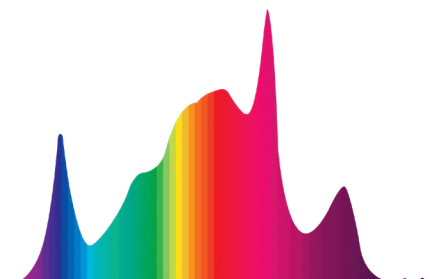
Earth™ Veg 1.5:1 Spectrum



Earth™ 0.4+:1 Spectrum



Earth™ 0.3:1 Spectrum

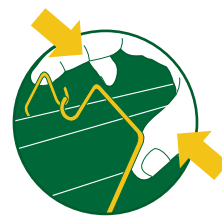


Layout Spec

- Layout of vertical farming rack setup, lettuce and micro greens.
- EARTHplate used with remote drivers to maximise space due to low ceiling.

Mounting options

- Included claw for P2000 trunking or shackle for use with rope, cable or chain are available to you with the Earth Systems.



P2000 Claw



Shackle

Applications

- Top lighting / Suspended lighting – High bay lighting from above crop
- Vertical farming – in vertical or horizontal orientation
- Virtually any plant/crop at any stage/season
- Complimentary to sunlight (greenhouse) or replacement to sunlight (indoor)



THE LUMINAIRES



The EARTHbay has the LED driver box attached to the back of the fitting for easy, out of the way storage allowing for compact linear runs of fittings



The EARTHplate design allows for the LED plate and driver box to be separated. When slim-line LED plates are a must because of height restrictions, the EARTHplate XP is your perfect solution for high bay racking applications

Two variants, one light

The EARTHbay and EARTHplate have matching LED configurations & outputs.

Key difference

Whilst the EARTHbay has an attached driver box behind the fitting the EARTHplates driver is separated from the driver box (up to 2m).

Wattages

Maximum driver efficiencies and wattages between 300W and 330W respectively.

Dimmable (DALI)

Both come dimmable ready unless requested to be otherwise.

µmols capacity

Both EARTH configurations are designed to provide powerful µmols packages. However thanks to their modularity we can build the system up or strip it down. This allows us to provide you a fitting as powerful or restrained as you require.

Spectrums & lenses

Both the Plate & Bay offer the same phenomenal spectrums & lenses for you to select from.

AT A GLANCE:



Impact resistant lens (IK08)



4 different light distribution options (lenses)



Dimmable DALI standard, non dimmable on request.



5 year warranty
*Click here for terms and conditions



Standard 4 kV surge protection



Upgrade 10kV surge protection available



Able to operate at +35°C ambient



Plug and play ability to service your fittings without an electrician

Our EARTHbay & EARTHplate range are based off of the same chassis of our industrial flagship XP series. What this means for you is a fitting whose body has proved itself at cooling, protecting and housing luminaires in some of the most rugged environments in Africa. We then combined this chassis with grow technology sourced from the leading horticultural component manufacturers in both Europe and Asia. We then put the new system through months of testing to ensure that the final product could deliver against our best intentions. The final result, a grow light several years in the making, yet on the very tip of the latest technological advancements in LED grow light technology available today.

A CLOSER LOOK

Heat-sink

Aluminum heat-sink engineered to keep the LEDs comfortable up to an ambient of 35°C*. This radical design is also easier to clean fitting without compromising heat dissipation. (*Higher temp on request).

Lenses

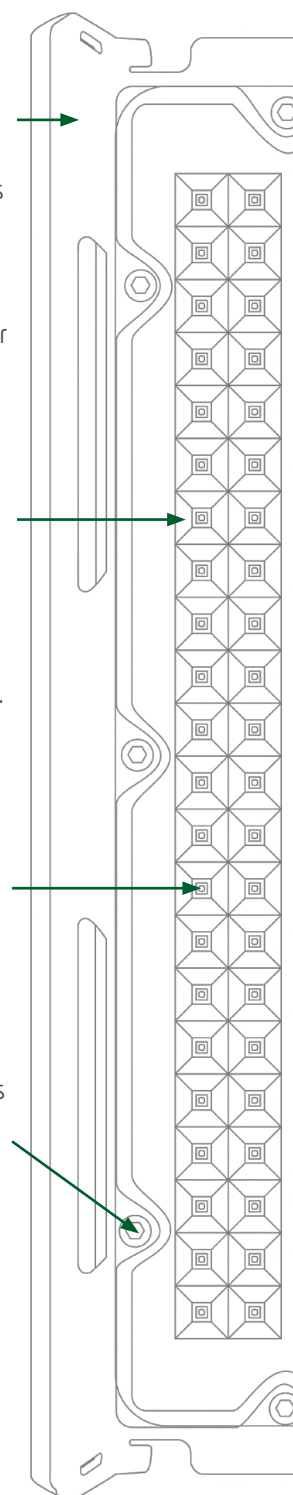
Polycarbonate lens offer great IK08 impact protection and efficient distribution control. The continuous silicone gasket allows a water-resistant (IP65) assembly.

LEDs

Source from the best component manufactures in Europe to ensure maximum lifespan, quality and light spectrums.

Finishings

All fasteners are Stainless Steel 316 rust free longevity.



EARTH[™]
HORTICULTURAL LIGHTING SYSTEM



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Designed and
Manufactured by

energywise



ISO9001
CERTIFIED

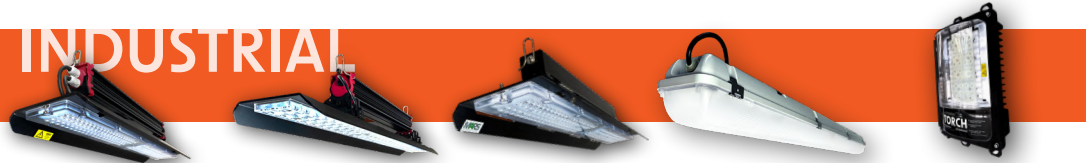


Energywise lighting options

Energywise specialises in LED luminaries for industrial, EX, commercial and horticultural applications.

INDUSTRIAL

Lights on



Bay XP

Factories, Warehouses, Cold rooms etc.

Standard
Height: 6-25m
IP: 65
Temp: 40°C

Bay XL

Factories, Warehouses, Supply rooms etc.

Standard
Height: 3-20m
IP: 40
Temp: 30°C

Bay XE

Factories, Warehouses, Supply rooms etc.

Standard
Height: 6-25m
IP: 20
Temp: 30°C

DUSTPROOF

Warehouses, Car parks, Corridors.

Standard
Height: 2.5-8m
IP: 66
Temp: 35°C

Torch Bulkhead

Heavy industrial areas.

Standard
Height: 2-10m
IP: 65
Temp: 30°C



HIGHbay XF

Light industrial econo low bay.

Standard
Height: 2-10m
IP: 20
Temp: 30°C

LOWbay XF

Light industrial econo low bay, Task lighting.

Standard
Height: 2-10m
IP: 20
Temp: 30°C

LED eBay

Light industrial diffused low bay

Standard
Height: 2-10m
IP: 40
Temp: 35°C

RETROFIT



Retrofit 44

Converting old HID tech to LED

Standard
Height: 8m
IP: 00
Temp: 30°C

Retrofit 22

Converting old HID bulkhead to LED

Standard
Height: 10m
IP: 00
Temp: 35°C

Bricklight

Recessed wall light

Standard
Height: 2m
IP: 00
Temp: 30°C

RETAIL & COMMERCIAL



LEDrail 1000

Shops, Production facilities, parking

Standard
Height: 2.5-10m
IP: 40
Temp: 30°C

LEDrail 2000

Shops, Sheds, Underground parking

Standard
Height: 2.5-10m
IP: 40
Temp: 30°C

LEDrail 4000

Retail, board rooms, department stores.

Standard
Height: 2.5-6m
IP: 40
Temp: 35°C

LEDrail 8000

Retail, board rooms, department stores.

Standard
Height: 2.5-6m
IP: 40
Temp: 35°C

LEDrail 4-100

All retail outlets, showrooms, offices etc

Standard
Height: 2.5-10m
IP: 40
Temp: 35°C

LEDrail 4LCO

Shops, Production facilities, showrooms.

Standard
Height: 2.5-10m
IP: 40
Temp: 35°C

LEDRAIL 4-100 GAP

Retail applications, Hardware stores etc

Standard
Height: 2.5-10m
IP: 40
Temp: 35°C

EX



EX Bay XP

Factories, Warehouses, Mills, Marine etc.

Standard
Height: 6-25m
IP: 65
Temp: 40°C

EX Flood

Factories, Warehouses, Mills, Marine etc.

Standard
Height: 3-10m
IP: 65
Temp: 40°C

EX DUSTPROOF PREMIUM

Warehouses, Car parks, Mills.

Standard
Height: 2.5-8m
IP: 65
Temp: 40°C

EX DUSTPROOF

Warehouses, Car parks, Corridors, Mills.

Standard
Height: 2.5-8m
IP: 65
Temp: 40°C

EX Pod

Factories, Mines, Marine etc.

Standard
Height: 2-5m
IP: 68
Temp: 40°C

EX Torch

Heavy industrial areas.

Standard
Height: 2-10m
IP: 65
Temp: 40°C

EARTH



EARTHbay

Horticulture, Open areas etc

Standard
Height: 2.5m
IP: 65
Temp: 35°C

EARTHplate

Horticulture, Rack/ Under shelf etc

Standard
Height: 0.5m
IP: 65
Temp: 35°C

EARTHpod

Horticulture, Propagation, Racks etc.

Standard
Height: 0.2m
IP: 65
Temp: 35°C

EARTHaxis

Grow tent horticulture

Standard
Height: 0.2m
IP: 65
Temp: 35°C

Job done

energywise

Better light through research.