

ALIGN PLATFORM AT

Soli Organic

Re-defining the Indoor Farm Blueprint
with the Launch of the San Antonio Facility



Soli Organic Inc. is a leading soli-based indoor organic agriculture company dedicated to high-quality, high-value, sustainably grown, 100% USDA Certified Organic produce. Headquartered in Virginia, Soli Organic is the category leader in fresh culinary herbs, found in 20,000+ stores nationwide and rapidly expanding distribution of leafy greens. With the nation's largest commercial indoor organic soil-based growing system, Soli brings consumers quality and value all year round, all over the United States. Pioneering controlled indoor growing processes, Soli Organic is re-defining the indoor farm blueprint to ensure long-term industry viability.



#1 leading national grower of fresh, organic, culinary herbs



20,000 retail locations served across the USA



New facility - 140,000 sqf of indoor organic growing & processing



The Challenge

Soli Organic's commitment to delivering fresh, flavourful, sustainably grown organic produce has led to the opening of their next farm in San Antonio, Texas. With 100,000 square feet dedicated to cultivation and an extra 40,000 square feet for processing, San Antonio stands as one of the largest indoor farms globally and is also one of the most technologically advanced. Automation and equipment in the farm are designed to maximise plant yield and quality, while also optimising facility economics.

"Arguably the most technologically advanced indoor organic farm globally, San Antonio leverages proprietary equipment and practices honed over years of research and experience," said Matt Ryan, CEO of Soli Organic. "Our science is leading the way in understanding the intricate relationship between light and plant growth. Selecting a lighting partner capable of customizing solutions to our precise requirements was essential to meeting our goals for yield, quality, and sustainability."

» **San Antonio will grow over ten different crops, including a diverse range of organic herbs such as basil, cilantro etc.**

» **Vertical layers equipped with lighting maximise growing space and use 1/100th of the land used by traditional growing**



The Bloem Solution

Bloem's Align Platform is a customisable LED lighting solution for vertical farms. It uses advanced LED and optical technology to deliver optimal photosynthetically active radiation light-use efficiency, intensity and spectral uniformity within low headspace environments. It is manufactured using extrusion techniques to enable housing dimensions to be adapted to any vertical farm infrastructure, while operating on both AC and DC infrastructures to reduce acquisition, installation and maintenance costs.

1

Customised spectra to Soli Organic's light recipe needs.

2

Tailored PPFD to Soli Organic's cultivation strategy.

3

Fixture dimensions & system configuration customised to Soli Organic's infrastructure.

4

Bespoke optics for optimal intensity & spectral uniformity within the headspace.

5

Customised plug & play mounting solution to accelerate installation & facilitate on-site maintenance.

The Results

Bloem collaborated extensively with Soli Organic's R&D, engineering and operational teams to understand their unique objectives and requirements. Leveraging Align's adaptability, Bloem tailored the lighting performance, mechanical & electrical configuration to Soli Organic's precise criteria to maximise productivity and optimise cost-of-ownership.

- » **Increases yield by up to 42%**
- » **Average yield increase of 26% across 9 different crops**
- » **14,000+ light-bars have been deployed after rigorous testing**

"Light optimisation plays a crucial role in enhancing leafy green productivity. Bloem's Align Platform was able to bring our research to life in excellent lighting equipment, and we are experiencing unparalleled results in yield and quality."

- Tessa Pocock, Chief Science Officer at Soli Organic

"Soli Organic is an innovative CEA leader that is redefining the blueprints for all vertical farms," commented James Fleet, Co-Founder and CEO of Bloem. "Our Align Platform has enabled Soli Organic to tailor every aspect of the lighting performance to their exact needs, yielding remarkable results."

Stay tuned for more when Bloem returns in 12-months to observe the progress and outcomes of this world-class indoor farm.



ALIGN PLATFORM

Raise the Bar

The Align Light-Bar Platform is a bespoke lighting solution adaptable in length, spectra, and performance to the unique requirements of an indoor farm.

A robust system that targets optimising productivity within multi-layer, gutter and grow-cart applications, primarily built for low headspace and harsh working environments.



Bloemteknik Ltd
Sophia House, Cathedral Rd
Cardiff, CF11 9LJ
United Kingdom

grow@bloemteknik.com
+44 (0) 2920 660250

www.bloemteknik.com

