LODESTAR Modular Building Systems

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Safe, Comfortable, Affordable, Enjoyable



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PATENT PENDING



THE PURPOSE BEHIND LODESTAR MODULAR BUILDING UNITS

Mission:

To develop an affordable *Precast Concrete Modular Building System to be used* as the infrastructure for attainable building structures.

The parameters were to construct a versatile & affordable product that could be manufactured in a climate-controlled factory and efficiently delivered to building sites in the community.

Objectives:



Affordable:

The structure must add a higher degree of value and provide sufficient benefit, to enhance the overall value of the finished building.

Value:

The finished product must provide building efficiencies, positively impacting the quality and value, making the buildings more attractive and attainable to all.

Adoptable:

Integrating the structures into the building designs should provide efficiencies to the builders and designers, to ensure the structures are easily adoptable by the building community.

Efficiency:

The process of manufacturing and delivery must be efficient and should not create challenges resulting in increased construction costs.

Resiliency:

The structures must provide a long-lasting solution with reduced ongoing maintenance requirements



Versatility:

Designed for use in a wide variety of designs and construction applications, with superior efficiency and effectiveness.

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DELIVERING A BETTER WAY TO BUILD

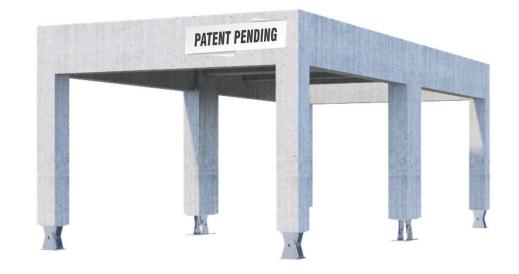
Anchor Concrete Products has developed an innovative **Modular Building Unit** (Patent Pending) infrastructure system which allows builders to **produce highly efficient buildings**, designed to be **more sustainable** and **durable** than structures built using other traditional building materials.

Precast Concrete Modular Building Units combine the resilience of Precast Concrete with the efficiency of Modular Building Technology, allowing builders to complete the primary infrastructure of a building in a fraction of the traditional building time.

The efficiencies associated with the Modular Building System reduces the demand for labor and natural resources, expands production potential, and provides a finished product of superior quality.

The features of the structure have been crafted to allow the architect to enclose the unit the way traditional building material would be concealed or leave them exposed to create appealing design characteristics.

Lodestar Modular Building Units are engineered to meet the Worse Load Requirements under by the Ontario Building Code, providing a safe and durable infrastructure, designed to solve the challenges for developing affordable and attainable "Human Spaces".



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LODESTAR Modular Building Units







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AN INNOVATION IN ENGINEERING



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DELIVERING CONSTRUCTION EFFICIENCIES

- Construction Time
 - Assemble the structure within 24 hours
 - Enclose the structure within 48 hours
 - Maximize usable space in building designs

Material Costs

- Remove the uncertainty of material costs
- Reduce material waste & material loss (theft)
- Lodestar MBU's arrive ready to install
- Remove unnecessary components from the building process

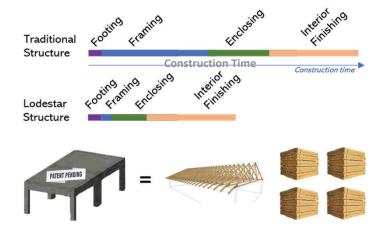
• Skilled Labour & Trades

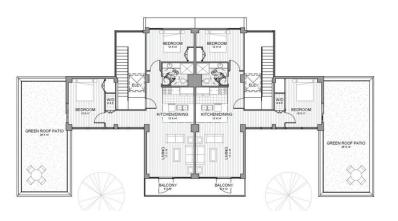
- Maximize Skilled Labor & Trades, specializing on essential tasks
- Minimize the demand for framing & roofing labor

Project Management

- Control costs by reducing risks of cost overrun
- Less laborer's to manage and train
- Reduced material requirements
- Quicker building process
- Standardized "Modular" building material
- Simplified building process

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LODESTAR Modular Building Units Assembled, ready for enclosing



LODESTAR Modular Building Units shadowed over finished building

> **TWO STORY** WITH **ROOFTOP GARDEN** & 2nd Level Green Space Patio

STRUCTU

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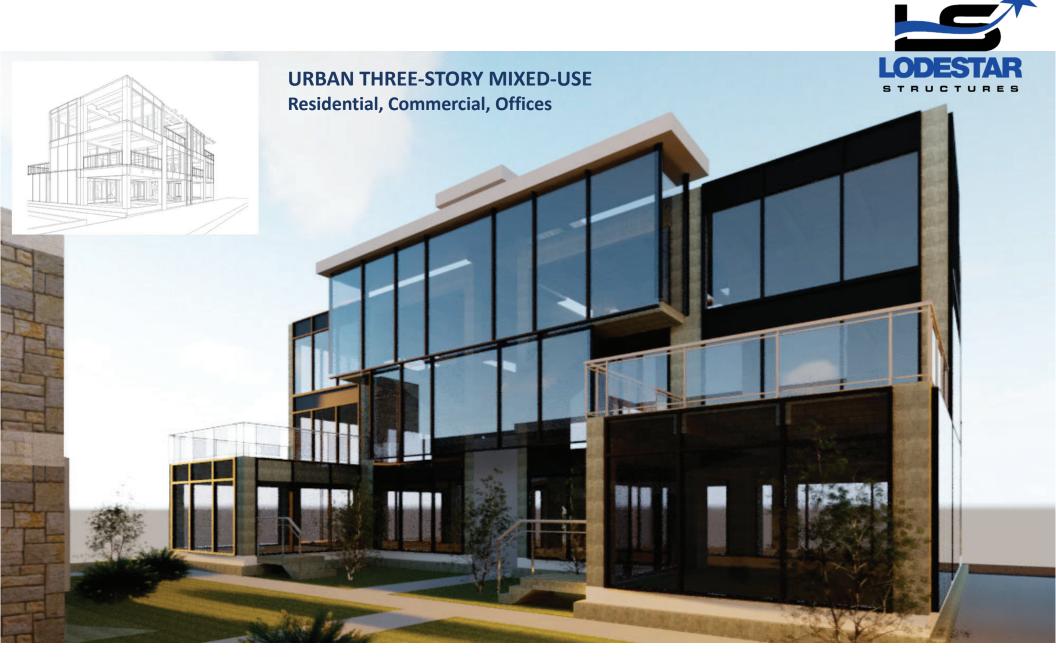
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HYBRID DESIGN INCORPORATING LODESTAR STRUCTURES Traditional Façade, and Pitch Roof





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LODESTAR Hybrid Lodestar Modules combined with Traditional Building Material





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LODESTAR Minimal Skyline Impact





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THREE STORY WITH ROOFTOP GARDENS & Green Space Patios PATENT PENDING

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STRUCTURES

GREEN SPACE COMMUNITY WITH ROOFTOP GARDENS and spacious outdoor spaces

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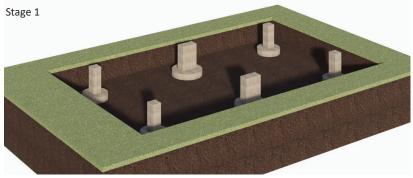


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CONSTRUCTION PROCESS

installing a LODESTAR Modular Building Unit

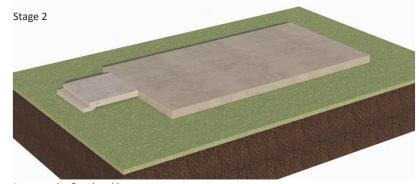


Prepare the foundation & footings using drilling or excavating techniques



Position the Lodestar Modular Building Unit into place. Units can be connected vertically or positioned horizontally beside or near other structures, to meet the layout floorplan requirements

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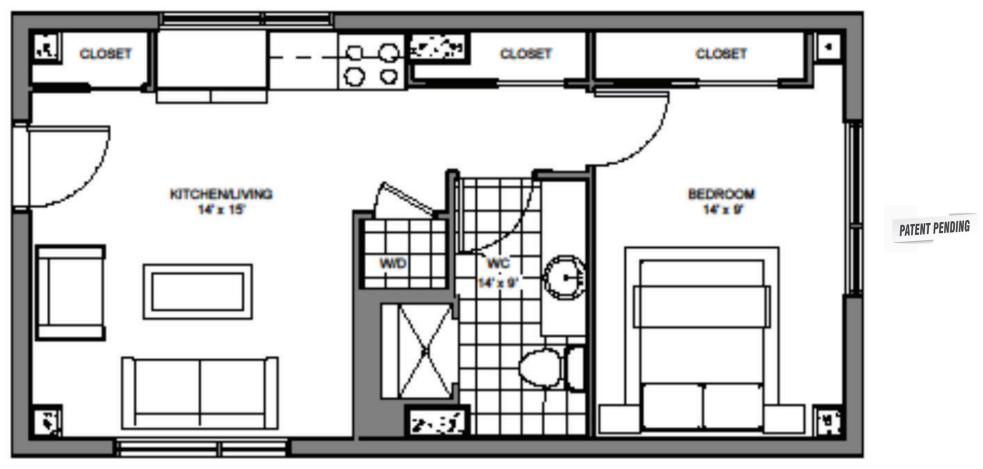
Prepare the first level base



Enclosing the structure can be achieved using a variety of building materials. Prefabricated SIPs panels would allow the structure to be enclosed in a fraction of the time it would take to enclose a structure using traditional building materials.



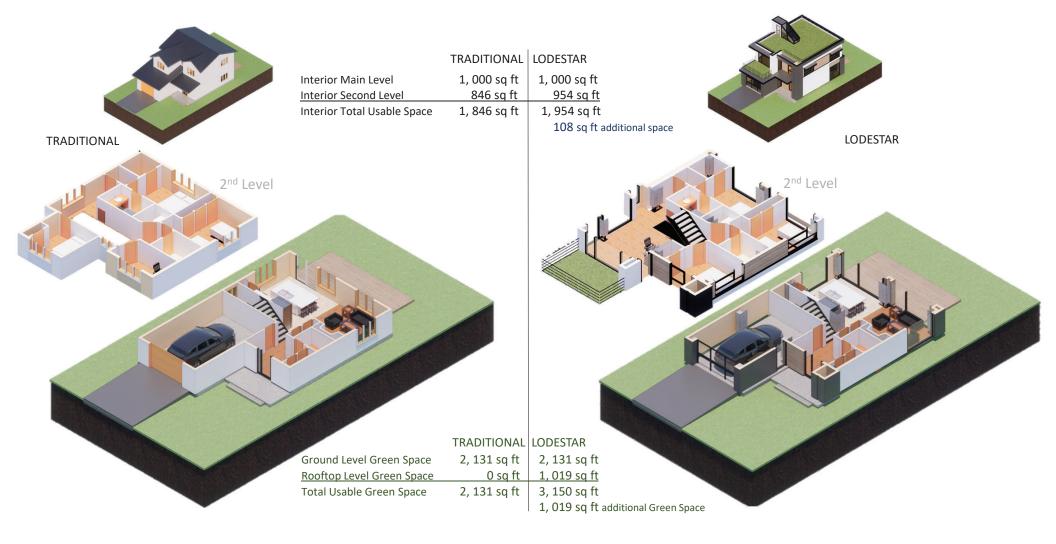
LODESTAR - STUDIO UNIT FLOOR PLAN



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USABLE SPACE COMPARISON TRADITIONAL building materials vs. LODESTAR infrastructure



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USABLE SPACE COMPARISON TRADITIONAL building materials vs. LODESTAR infrastructure

TRADITIONAL	Interior Main Level 1, 000	sq ft 954 sq ft	LODESTAR

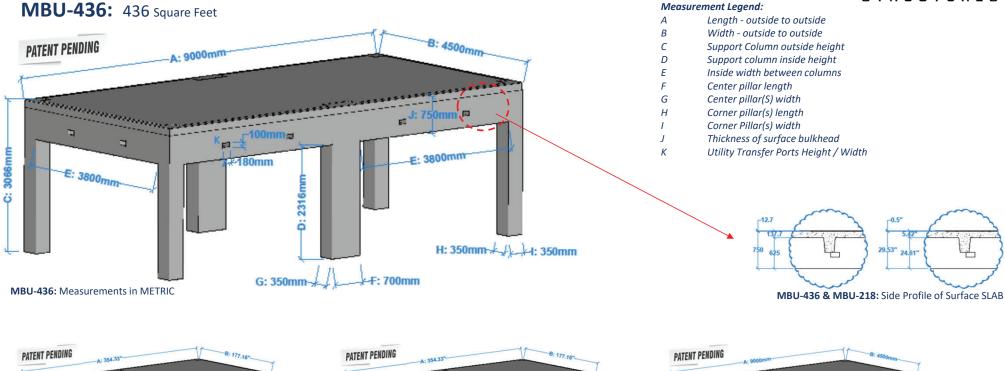
	TRADITIONAL	LODESTAR
Ground Level Green Space	2, 131 sq ft	2, 131 sq ft
Rooftop Level Green Space	0 sq ft	1, 019 sq ft
Total Usable Green Space	2, 131 sq ft	3, 150 sq ft
		1 010 cm ft additional Corres

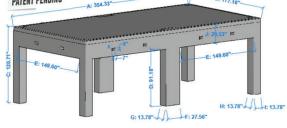
1, 019 sq ft additional Green Space

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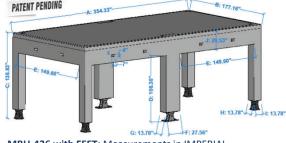


LODESTAR MODULE SPECIFICATIONS

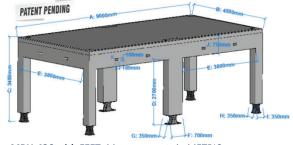




MBU-436: Measurements in IMPERIAL



MBU-436 with FEET: Measurements in IMPERIAL

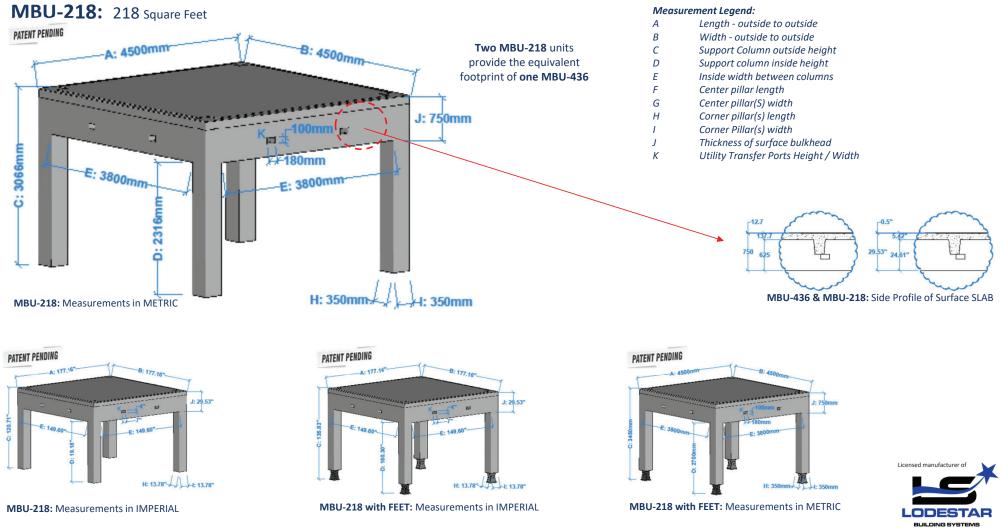


MBU-436 with FEET: Measurements in METRIC

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LODESTAR MODULE SPECIFICATIONS



STACKABLE AND **CONNECTABLE** Examples of Lodestar Modular Structures layout configurations











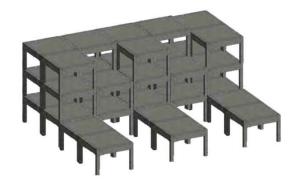










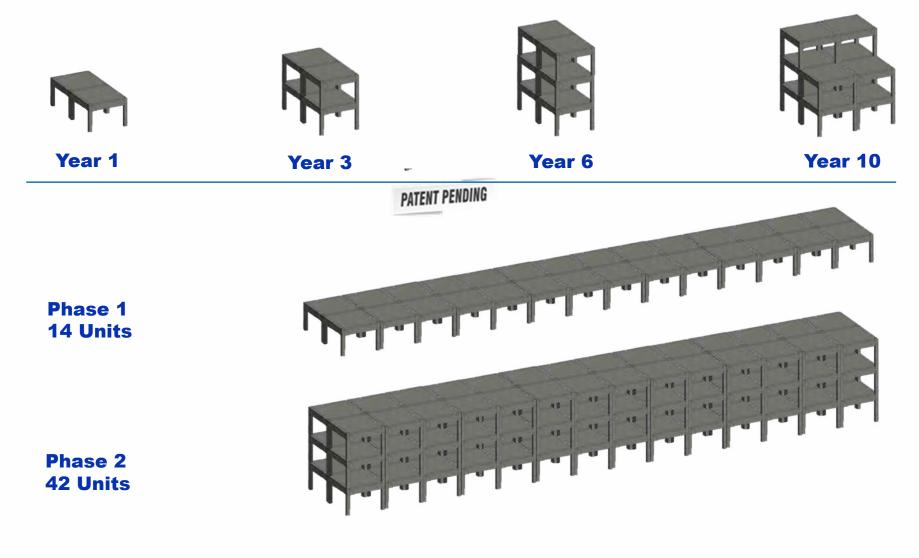




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LODESTAR Modular Building Units EXPAND with Ease

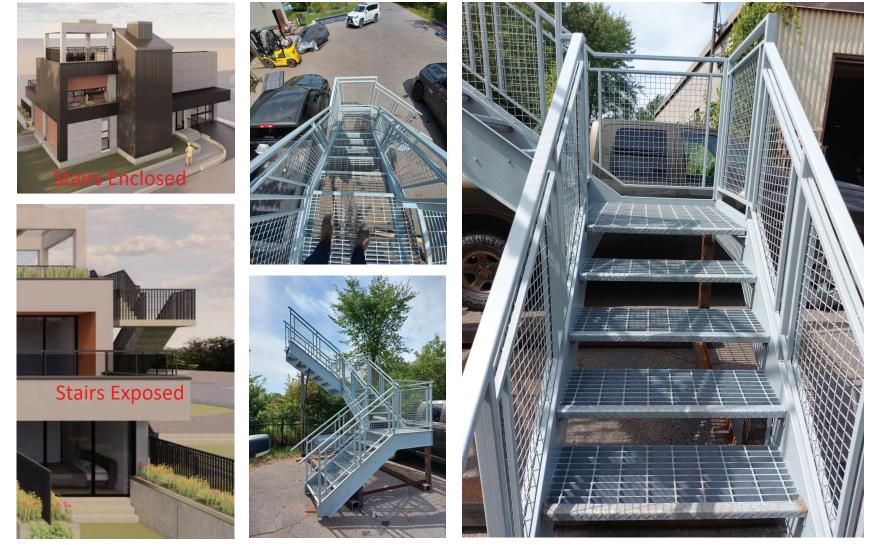




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MODULAR EXTERAL STAIRCASE for LODESTAR MODULAR BUILDING UNITS



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LODESTAR Stair module - enclosed





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LODESTAR SYSTEM: CONFIGURATIONS

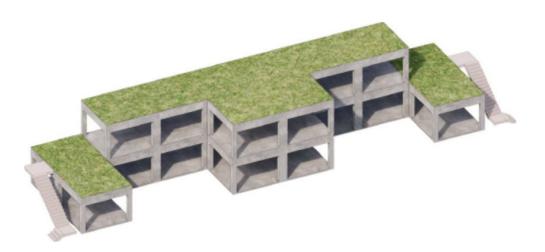
The structure is designed to the highest standards, capable of supporting:











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