

TILT UP



ECO CAST

HORTGRO PRESENTATION

The most versatile, resilient, and efficient building system in the world today



PRESENTED BY NEAL LATEGAN

ECO CAST



COMPANY OVERVIEW

We have been leading the charge into sustainable and efficient construction in insulated tilt up walls. Various projects all over the Peninsula have been completed with clients ranging from large-scale foreign investment to the local and humble farmers.

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MISSION STATEMENT

Our mission is to provide an alternative construction method through innovative solutions that drive sustainable and efficient operating initiatives. We are committed to delivering top quality, on time and on budget to our valued clients.



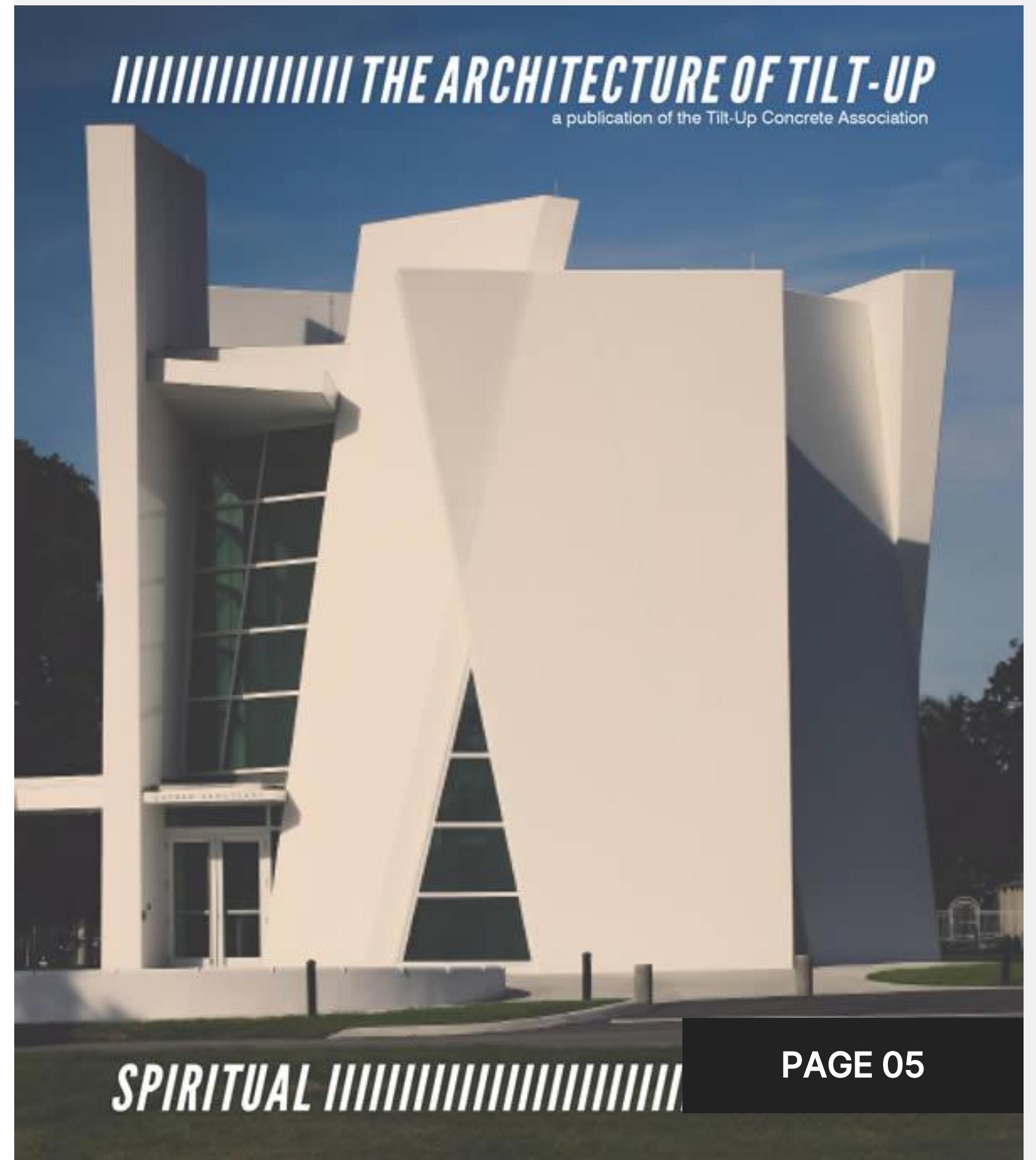
BUSINESS PRACTICE

Insulated tilt-up is a process in which large insulated concrete panels are cast on site and placed into their positions. No columns are needed as the roof structure keeps the walls together and the walls keep the roof up.



DESIGN

With the simplicity of what the building can be, the sky is the limit for design. With an ever-evolving level of finishing and the pushing of design capability, concrete is one of the most versatile and forgiving materials to work with.



TILT UP

BENIFITS OF TILT UP

Tilt up, although simple in practice, offers the most benefits when looking at return on investment for clients.

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FASTER BUILD

Reduced labor, overhead costs, large batch work, leading to a 30-50% Quicker build

ENERGY EFFICIENCY

With a Low R-value & high thermal efficiency a saving of up to 20-30% on energy consumption

LONG TERM ROI

Due to the nature of construction the building outlasts any other by 100-150%

LOW MAINTENANCE

Air & Water tight, durable construction leads to a reduction in breakages, gas usage and maintenance costs.

THE PROCESS

Adopting and applying a building technique that has been perfected for over 50 years in the USA to our home country. The process involves sandwiching insulation between two large scale concrete panels and connecting them together with thermodynamic pins.



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THE PROCESS

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FORMWORK



CONCRETE & INSULATION



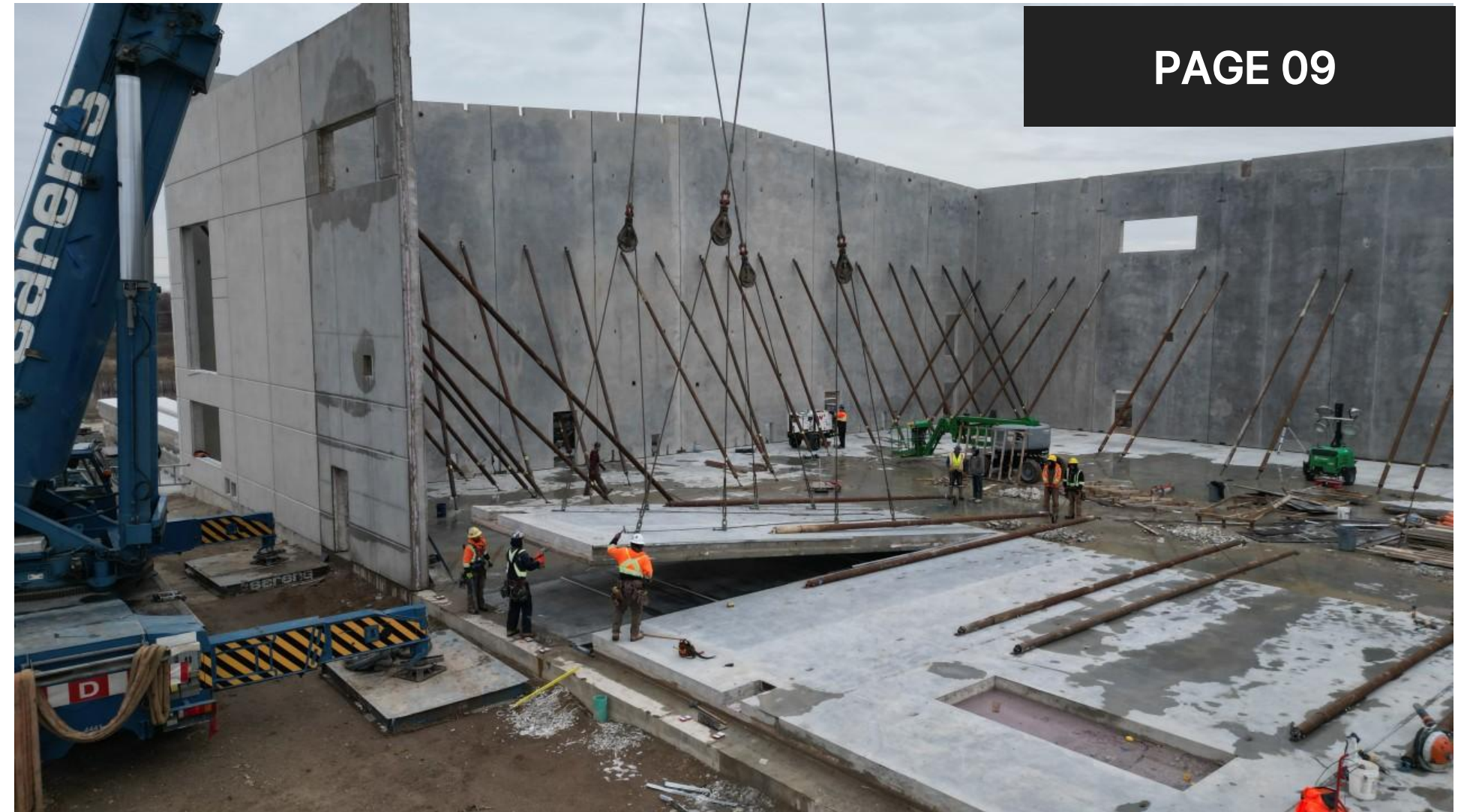
PINS & VIBRATION



REBAR -STRUCTURAL

Development RA/CA Rooms

Exciting development from the farming sector, is a large demand for Cold room Storage; which is ideally suited for insulated tilt up construction.



AIR TIGHT

Large format panels allows for less joints with ample depth for sealant, not allowing Refrigerant leakages

ENERGY EFFICIENCY

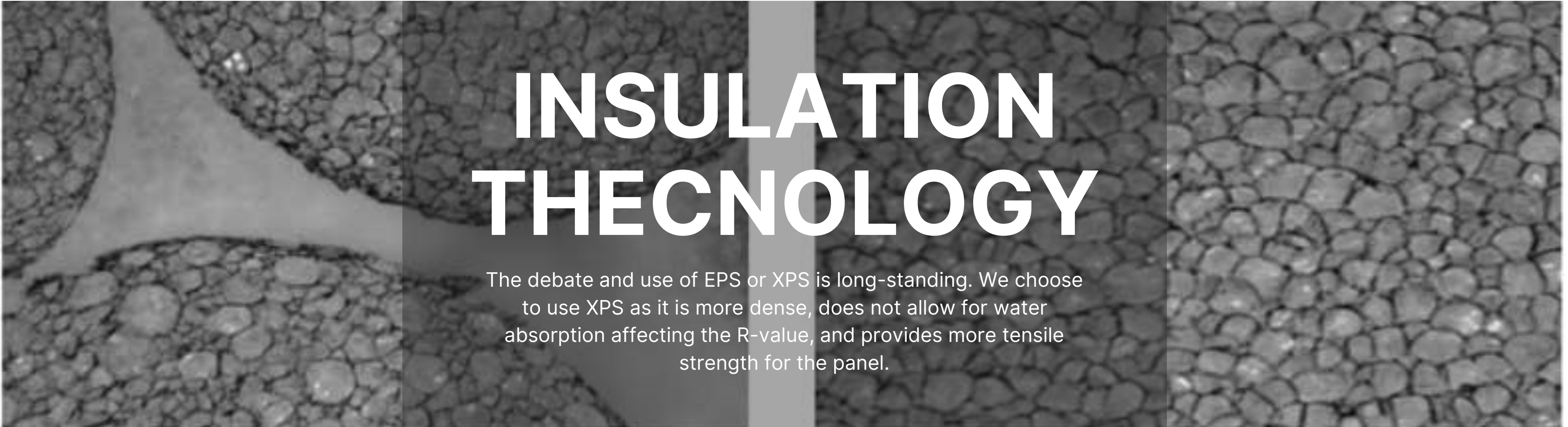
The Thermomass effect creates a saving between 20-30% on energy consumption

MODULAR DESIGN

With the compatibility of design, it gives the option for expansion or additions

SIZE

Buildings can be customized to suit individual needs



INSULATION TECHNOLOGY

The debate and use of EPS or XPS is long-standing. We choose to use XPS as it is more dense, does not allow for water absorption affecting the R-value, and provides more tensile strength for the panel.

DENSITY

XPS: 32-35 kg/m³

EPS: 16-32 kg/m³

MATERIAL SCIENCE

XPS: Hydrophobic

EPS: Hydrophilic

COMPRESSIVE STRENGTH

XPS: 200-750 KPA

EPS: 70-250 KPA

INDUSTRY EXPERTISE



Eco Cast has done a wide variety of projects. Having everything in-house to tackle all projects, from complex to simple structures. Coming from a project management background, we are well equipped to deliver projects within budget, time and quality

LOTUS

Dried Fruit production and packaging.
Over 16000 SQM

MONTAGUE SNACKS

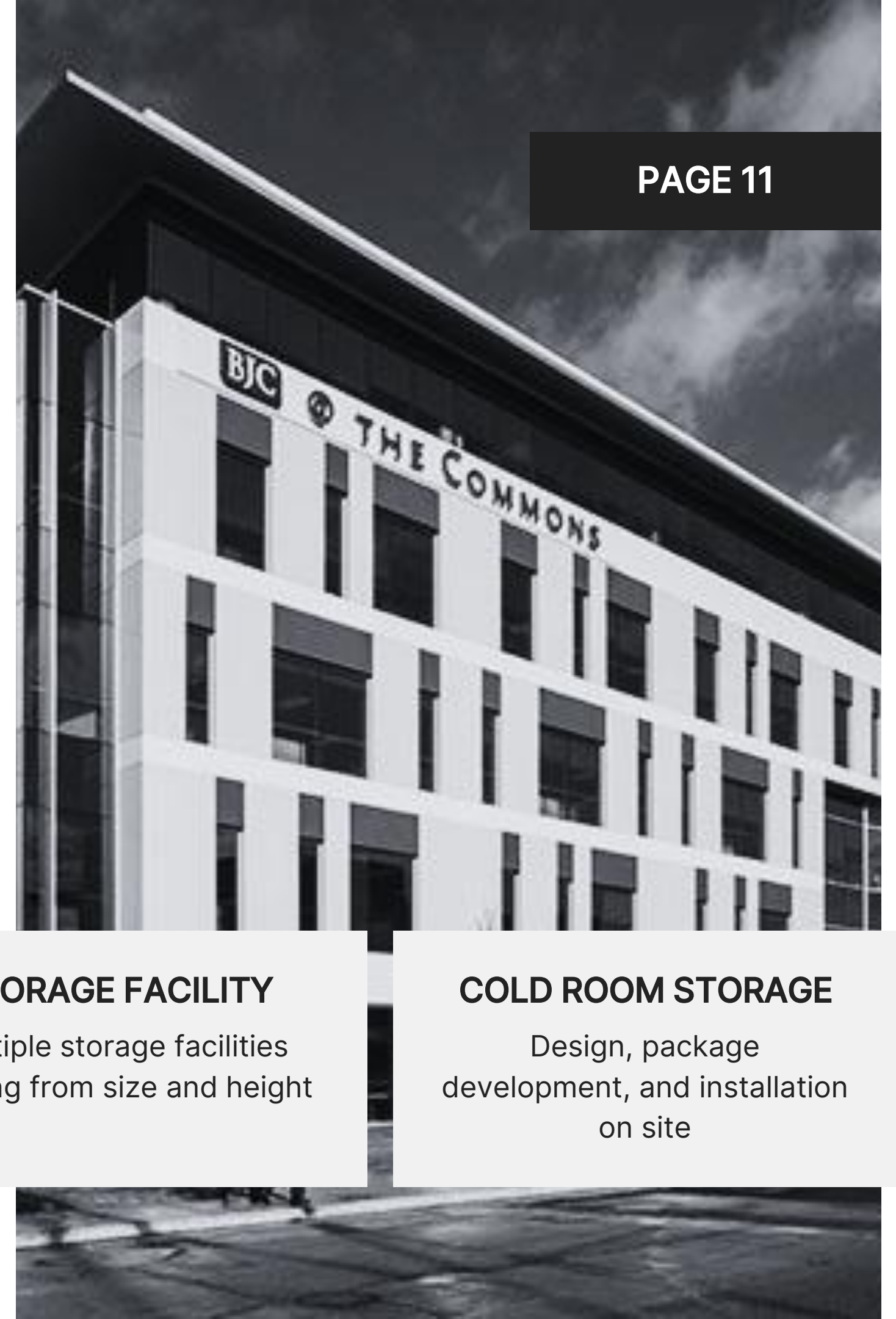
Brakengate facility for packaging.
Over 2300 SQM

STORAGE FACILITY

Multiple storage facilities ranging from size and height

COLD ROOM STORAGE

Design, package development, and installation on site



ECO FREINDLY

Our consulting services are designed to help businesses navigate challenges and seize opportunities. We offer expert advice and strategic insights to drive growth and success.



ENVIROMENTAL

Insulated tilt-up reduces energy consumption and carbon emissions through continuous insulation and thermal mass.

ECONOMIC

Faster construction, lower maintenance, and reduced operating costs deliver strong long-term value.

OPERATIONAL EFFICIENCY

Durable, fire-resistant buildings provide safer, more comfortable, and resilient spaces for occupants and communities.



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