

# 'LILY-pod' shopping centre

**A truly sustainable shopping centre design  
that adds more to the environment and community  
than it takes.**

## DESIGN CONCEPT AND SUSTAINABILITY PRINCIPLES

### A Wholly Integrated Design Approach.

Some have referred to this principle as a "systems" (or "systemic") approach.

We wish to take this further, to its logical and philosophical conclusion, in the spirit of the Living Building Challenge, to aim for an **ECOSYSTEMS** approach, where every part interacts with and supports the aims of every other part in a completely natural, integrated, wholistic and synergistic manner ... just as a natural ecosystem does ... *or as close as we can within the bounds of available time and our current understanding.*

This is an integral aspect of the challenge that we have set ourselves in this competition in order to embrace the philosophical basis of the Living Building Challenge in its core principles and key aims.

### Geometry and Design

Conceptual design ideas seek geometric principles in order to become manifest in reality.

The Living Building Challenge requires and encourages that **Biomimicry** be an integral aspect of the whole design process.

The source of our concept for this project is derived from the idea of **'PURE CLEAN WATER'** and its symbolic emblem, 'water lilies' (i.e. the flowers), but even more so, 'LILY PADS' (as seen in the image below).

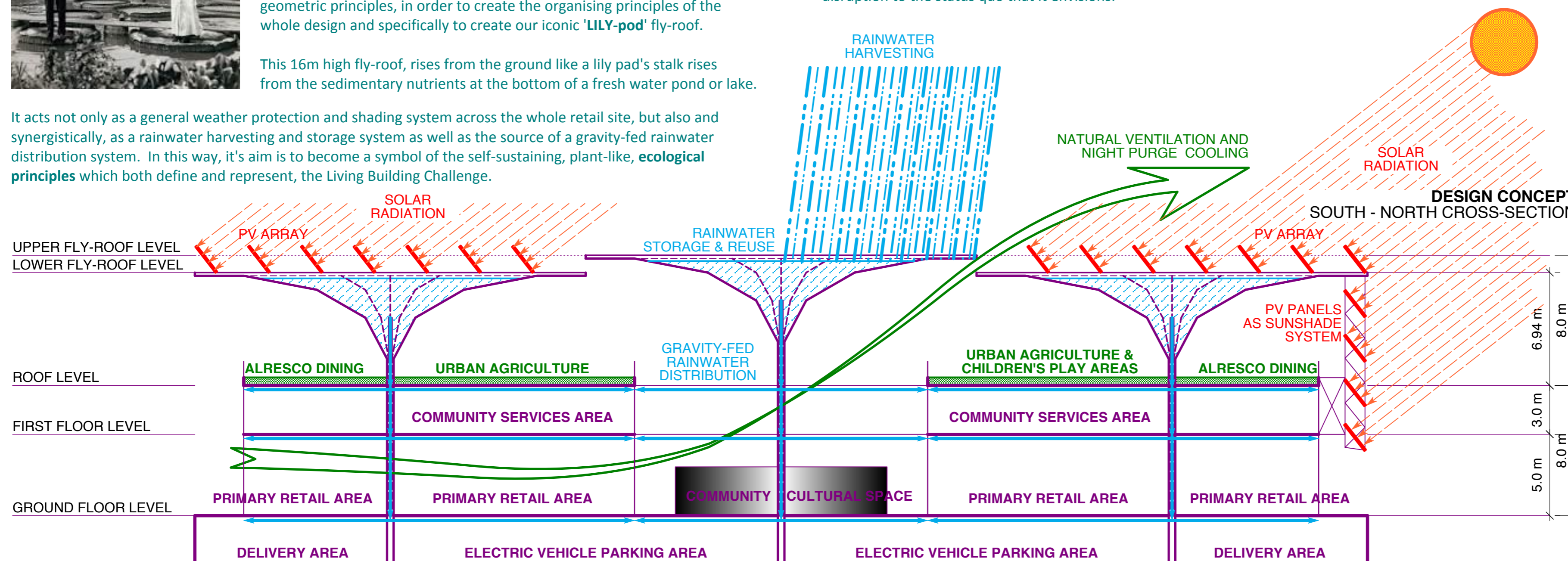


Utilising another naturally occurring but this time, interlocking shape and structurally efficient form, the hexagonal shape of the bees' honeycomb, we overlaid these two ideas:

One, the design concept and the other, a spatial and structural set of geometric principles, in order to create the organising principles of the whole design and specifically to create our iconic **'LILY-pod'** fly-roof.

This 16m high fly-roof, rises from the ground like a lily pad's stalk rises from the sedimentary nutrients at the bottom of a fresh water pond or lake.

It acts not only as a general weather protection and shading system across the whole retail site, but also and synergistically, as a rainwater harvesting and storage system as well as the source of a gravity-fed rainwater distribution system. In this way, its aim is to become a symbol of the self-sustaining, plant-like, **ecological principles** which both define and represent, the Living Building Challenge.



## DESIGN CONCEPT AND SUSTAINABILITY PRINCIPLES ... continued

### Architecture

Architecture is often expressed as being "a marriage between Art and Science".

'LILY-pod' aims to encompass and progress this definition of Architecture ... so our true aim is to marry **Nature, Culture, Community, Art, Education, Science and Appropriate Technology**, thus bringing together, synergistically, the natural world, human society and technology in a unique and self-sustaining (autarkic) way, as both a cultural hub and a light-house/beacon, lighting a clear and self-evident pathway towards the future.

### Environmentally Sensitive Design for the Living and Built Environments

Our passion is to create design solutions which are sensitive, responsible and responsive to the natural ecosystem and the local environment by engaging with, and being responsible for, the well-being of both the Living and the Built Environments for the **long-term future**, from the point of view of the Planet.

In this way, we need to stand back, way back, even further than we are used to doing and **see the bigger picture** before putting pen to paper. To look for and understand the **long-term consequences** of our design decisions and actions on the natural ecosystem that we and all the species on Earth depend on for our very survival.

We aim to place an **economic value on the environment**, equal to ... no, greater than the standard economic considerations of the design and construction world within our current 'growth and profit at all costs' economic model.

In this way, we seek to create and propagate a **paradigm shift** in the way that we create new Living and Built Environment projects and developments, which might explain our keen interest in this competition and the disruption to the status quo that it envisions.

**Brickworks Site**  
EAST BURWOOD, Melbourne, Victoria.

37° 50' S 145° 08' E  
approx 99m above sea level

The site is approximately 15.4 kilometers from the centre of Melbourne heading 104.3° (i.e. just south of due east) from the centre of Melbourne.

Rev	Date	Notes
<b>COMPETITION</b>		
Project		
The Brickworks Living Building Challenge Design Competition		
'LILY-pod' SHOPPING CENTRE		
Drawing		
Design Concept and Sustainability Principles		
PROPOSED CONCEPT CROSS-SECTION		
Scale		Paper size
		A1
Drawn by		Checked
tjmw		MW
Number		Revision
'L-p' - 002		
<b>L9DE</b>		