



## Preamble

The provision of functional shade in public places holds great importance as Australians increasingly embrace broader uses of the public realm. The evolving uses of public settings demands more flexible approaches to designing and selecting shade measures, while at the same time being accountable for the 'whole of life' cost implications of projects. While any project has the provision of shade at its core, the broader physical and social context should be considered before making a decision on the type of shade for each case.

Shade Design for Public Places highlights many of these considerations and offers a range of shade examples across various price brackets. The examples are presented in the Shade Selection Decision Tree, a visual reference aiding the selection process.

## Aims

 Provide comparative approaches to shade provision within fixed price brackets.

• Highlight the importance of context in siting shade measures.

· Present imaginative, best practice examples of public shade provision.

 Assist councils with their shade selection process through graphic examples.

### Shade Types





Trees and other vertical planting.

Shade sails. umbrellas and framed

canopies.

structures.

## Terms used

Incidental shade - shade experienced when passing by Destination shade - where the shaded area is the focal point WSUD - Water Sensitive Urban Design Hypar - Shade sail with two high points and two low points, rectangular in shape





#### How to use this resource

The Shade Selection Decision Tree allows users to negotiate their shade options from either an outcome (outer ring) or a budget (inner ring) starting point. While the examples presented are site specific, the 12 more detailed graphic depictions show only that included in the price bracket, allowing a like-for-like comparison. The examples have been selected for their considered approach to shade, where sensitive siting and complimentary landscaping measures have greatly enhanced the longer term shade outcomes. The projects illustrate how this complimentary approach can lead to outcomes that are greater than the sum of their parts.

#### Steps to follow

Review the examples presented and determine either: a) your budget (inner ring) b) your preferred shade outcome (outer ring)



Skip to the focus pages for examples of interest and learn more about some likely features of each shade type.



Finally, review the 'Considerations' and 'Functionality' checklists at the end of this resource and apply them to your project.

## Pricing information

Projects have been grouped by price and include the whole design depicted unless noted otherwise. Costs include: Design, supply and installation and general landscaping. Site conditions and furniture have generally been excluded from these examples. Projects may fall slightly above or below the listed bracket.

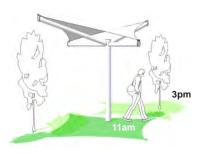


North



Incidental shade in the street for passers-by and those using the seat. Siting considers existing shade from shop canopies and maintains sight-lines for vehicles in nearby street.





Economical umbrella shade with set down footing to allow a sandpit. Shade is focused immediately around the activity. Coupled with new tree planting for a long term shade outcome.



Shelters are grouped with picnic facilities allowing various gathering formats. Trees are scattered between and will enhance the long term shade outcomes.

- Medium-long term setting Integrated with landscape
- and play
- · Coupled with new tree planting
- · Centre column most economical · Immediate shade from shade sail
- Integrated with play & seating · Column is offset from center
- allowing clear span under
- Clustered shade

· Economical, galvanized steel finish

· Good sight-lines maintained Vertical weather protection from wall · Immediately adjacent play area

- Good sight-lines maintained
- · Coupled with new tree planting
- Destination shelter
- · Good passive surveillance by neighbouring houses
  - Small catalogue item
  - Rectilinear forms are most economical
  - Minimal hardstand and furniture
  - Siting critical for best value
  - Basic finishes



- supports are more

**EXAMPLES** 

Single tree focal point

 Sculptural tree form Urban setting Incidental shade

Thoughtful siting with

furniture

New use for

existing shade

Site is used for a new

activity - funds redirected

Medium-long term impact

maintenance for establishment

Medium area of

Small area of

Include

juvenile tube stock

mature tube stock

GENERAL FEATURES

SHADE TYPE

Small umbrella type

 Medium Hypar or square format sail Certain shapes and

economical

Basic finishes

images are approximate representations of projec ר היי אייי הייי רושאיי Use people as a guide



Good shade provision throughout the day due to vertical planting coupled with shade sail. Adequate root area and drainage are important in this urban setting.



Eye catching and playful, shade is focused immediately over the play area. A raised footing forms part of the play area. Colour is carried through the design to the wider setting.



Shelter is well sited to provide good shade and weather protection in peak UV times. Roof drains passively to garden bed behind.

North



· Small tree cluster

Large area of juvenile

tube stock

• Medium area of

mature tube stock

shade structure

 Good opportunity for integration with

- Destination gathering space
- Dense shade
- Integrated with deck · Sight-lines maintained
- Playful, thematic form · Integrated as part of play
- UV screening
- Destination shade • Design intensive

  - UV screening
  - · Integrated around play elements
  - · Shade sail coupled with existing
  - trees and new tree planting Sight-lines maintained
- Various shape
- options
- Small custom item
- Medium-large catalogue item
- Hypar shape most
- economical

\$50,000

- Some landscape integration
- Small custom
- design Medium catalogue
- item
- Higher quality finishes possible

Destination shade

- Some vertical shade
- Located to optimise
- existing tree shade

**EXAMPLES** 

- Colour used as navigation aid
  - Integrated seating/steps
  - Destination shade
  - · Located to optimise existing tree shade

mage:

leetwood

Potential rainwater collection

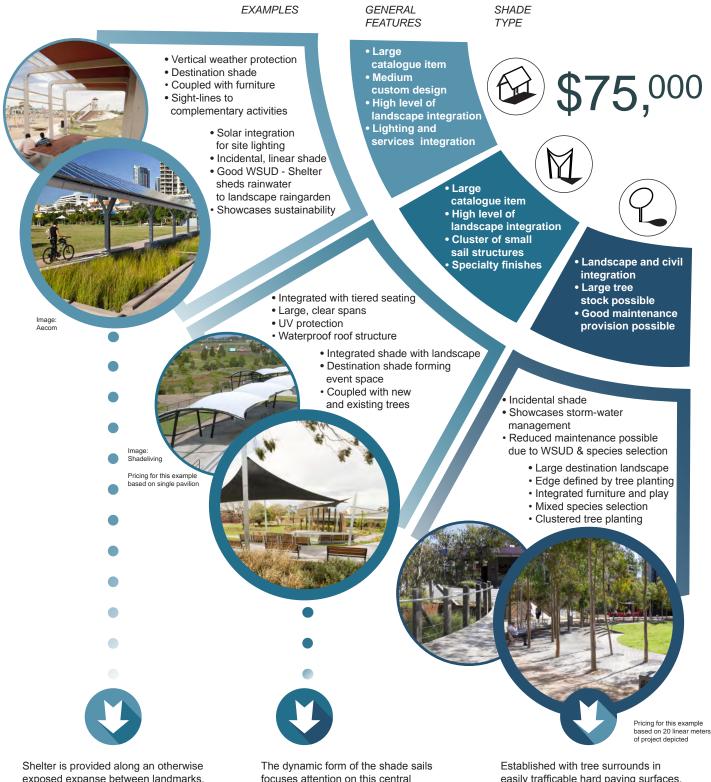
SHADE TYPE

GENERAL FEATURES Image

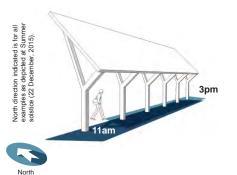
Fleetwood

Image

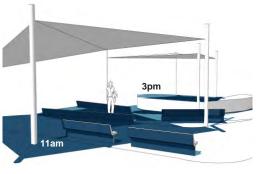
Asco



exposed expanse between landmarks, offering shade and weather protection. Multiple functions are incorporated into the structure including site power generation.



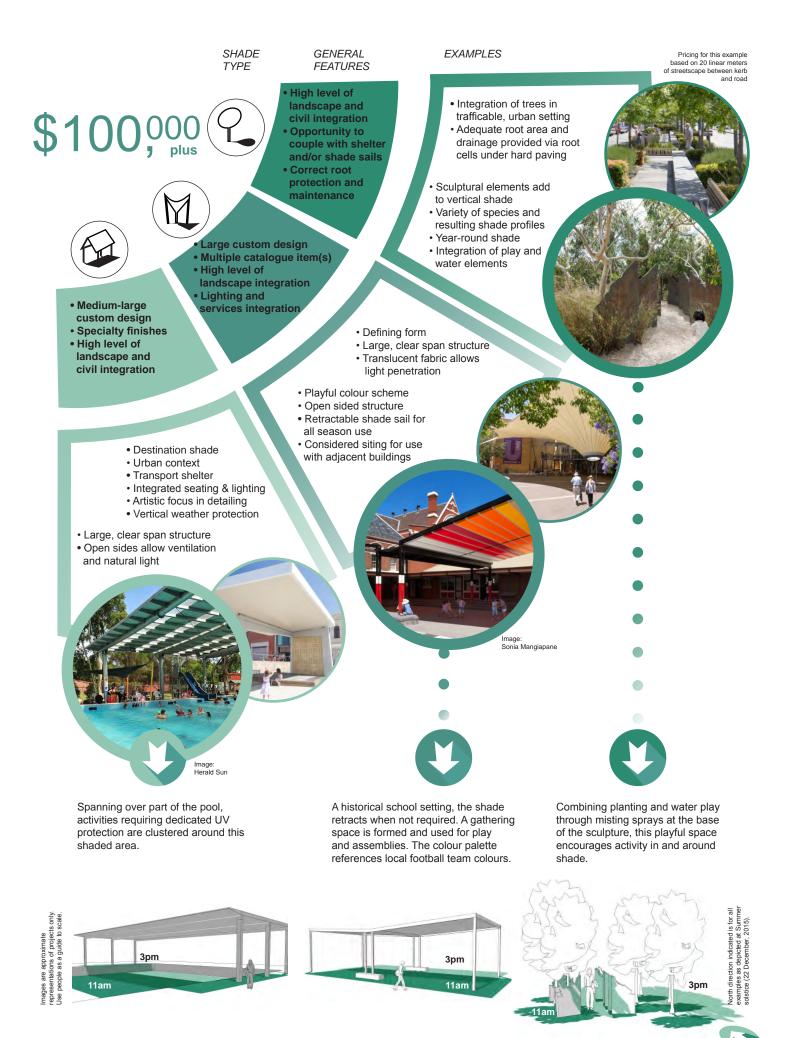
The dynamic form of the shade sails focuses attention on this central gathering space. Coupled with generous seating, the space also utilises existing mature trees and growing frames for cumulative shade outcomes.



Established with tree surrounds in easily trafficable hard paving surfaces. Trees are sited to provide shade to picnic, seating and play amenities throughout the day while maintaining sight-lines.

3pm

1am



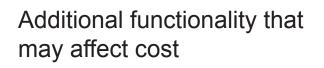
North

# Considerations for all site & project contexts

- Local climatic conditions (eg. coastal or alpine environments).
- >Factor protection measures against elemental damage into the design
- Existing planting and/or structures.
- >How they may be of use or detriment in siting the proposed shade measure
- Soil type implications such as structural bearing capacity, drainage capacity.
- Resulting structural and civil design and associated costs
- Adjacent site uses/user groups.
- >How they may be incorporated for mutual benefit
- Services available/unavailable on site, such as the provision of power, water, site drainage.
- Minimum offsets from existing infrastructure or site boundaries.
- >Clearance zones and their siting implications
- Level of civil integration required.
- >Whether drainage is required and to what extent
- Degree of design documentation or permits required.
- >Specialist services to realise the shade measure proposed including structural design
- Level and frequency of maintenance available.
- Impact on selection of materials and species to reflect likely maintenance regime
- · Procurement arrangements specific to project.

## More information

Municipal Association of Victoria Level 12, 60 Collins Street, Melbourne GPO Box 4326, Melbourne 3001 Phone: 03 9667 5555 Fax: 03 9667 5550 Email: inquiries@mav.asn.au Web: www.mav.asn.au



Complementary features that may add to the complexity and price of a shade project;

- Level of lighting and other services, eq. mains/solar power
- High durability surface finishes
- · Degree of operability, eg. retractable shade
- · Level of maintenance required
- Water shedding capacity, eg. stormwater connection/rainwater harvesting
- Side walls/wind breaks
- Hard stand (ground) surfaces
- · Furniture and other user amenities
- Sound absorption/insulation
- Anti-vandalism measures

## **Project listing**



Linear Park, Ropes Crossing, NSW

Whittlesea, VIC

