

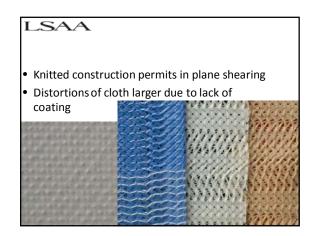


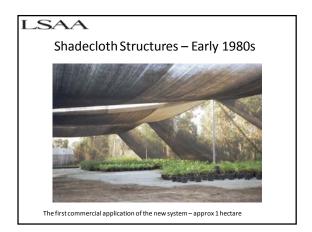
### LSAA

## **Agricultural Applications**

- Many nurseries used woven shadecloth nailed to timber rafters up to the early 1980s (Australia)
- Some very large areas destroyed by high winds
- Lead to a development where 2 factors addressed:
  - Fixed (concentrated) attachment points
  - Inherent weakness to distortion & tearing of woven shadecloth

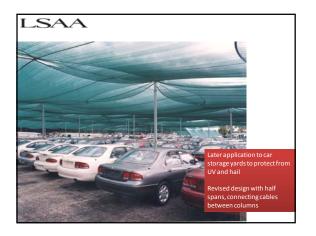


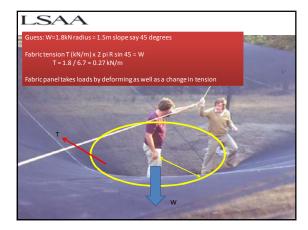






















# LSAA Playgrounds, Schools

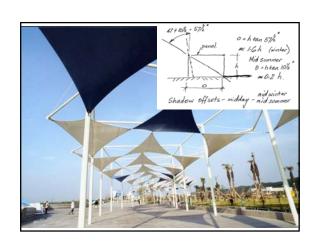
- Australia has extremely high incidence of skin cancers
- Cancer Council SunSmart has active programs to educate the public about the dangers of exposure to sun
- SunSmart has produced some guidelines
- Government funding ("stimulus package") for COLAs, but many "cowboys" have come out of the woodwork!





#### LSAA Current Situation

- Large variation in quality of installed shade structures often driven by perceived cost
- Large deflections, many sagging panels, degradation, failures of foundations, poles
- Do not provide adequate shade shade cover often not determined
- There are no standards and some imposed conditions









#### LSAA

# Basic Considerations to be Covered

- Understanding materials Bob Cahill
- Understanding Shade John Greenwood
- Learning from existing Joseph Dean
- It is all in the details Joseph
- How to predict Trevor Scott, Alan Stewart
- How to make it Alan Stewart
- Rules, guidelines Peter Kneen & Panel

