

RONSTAN
TENSILE ARCHITECTURE


S3D Cable Supported Facades A Case Study – Park Beach Plaza

Rowan Murray & Paul Joseph
LSAA 2013, Auckland, NZ
13th Nov. 2013

www.ronstantensilearch.com

Coffs Harbour – Known for its bananas !


RONSTAN
TENSILE ARCHITECTURE



www.ronstantensilearch.com

It has a Big Banana !


RONSTAN
TENSILE ARCHITECTURE



www.ronstantensilearch.com

A rich banana history !


RONSTAN
TENSILE ARCHITECTURE



www.ronstantensilearch.com

...and the residents need something new – desperately!


RONSTAN
TENSILE ARCHITECTURE



www.ronstantensilearch.com

Coffs needed something more..... Park Beach Plaza

RONSTAN
TENSILE ARCHITECTURE



www.ronstantensilearch.com

Case Study – Cable Supported Facades – Park Beach Plaza

RONSTAN
TENSILE ARCHITECTURE



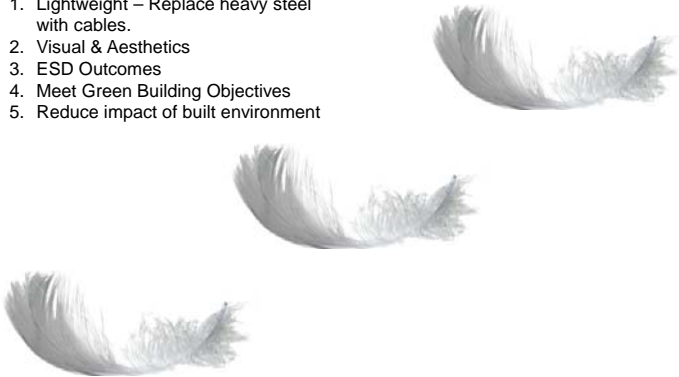
1. Quick Summary of the Benefits of Cable Supported Facades
2. Background
3. Design Parameters & Development
4. Key Selection Factors
5. Installation

www.ronstantensilearch.com

Benefits of Cable Supported Facades

RONSTAN
TENSILE ARCHITECTURE

1. Lightweight – Replace heavy steel with cables.
2. Visual & Aesthetics
3. ESD Outcomes
4. Meet Green Building Objectives
5. Reduce impact of built environment




www.ronstantensilearch.com

Benefits of Cable Supported Facades

RONSTAN
TENSILE ARCHITECTURE

1. Individuality and branding



Whitten Oval - Peddle Thorp

www.ronstantensilearch.com

Benefits of Cable Supported Facades

RONSTAN
TENSILE ARCHITECTURE

2. Wrapping and Folding




103-105 Lonsdale Street, Melb. - SJB

www.ronstantensilearch.com

Benefits of Cable Supported Facades

RONSTAN
TENSILE ARCHITECTURE

3. Shelter and Filter

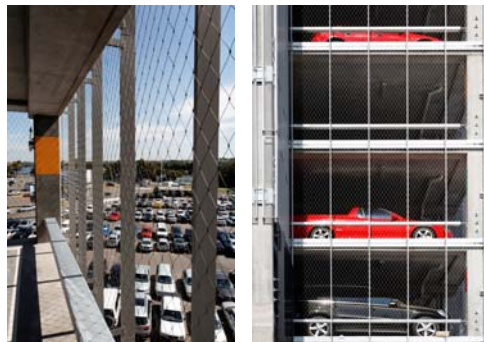


www.ronstantensilearch.com

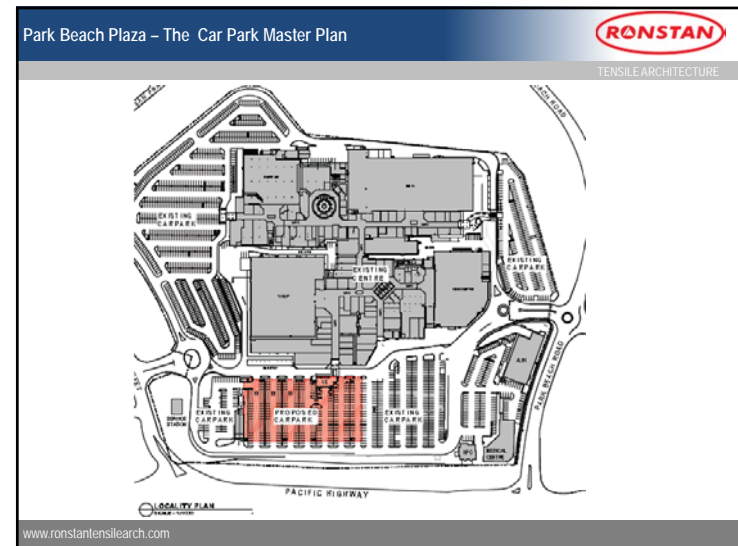
Benefits of Cable Supported Facades

RONSTAN
TENSILE ARCHITECTURE

4. Protection



www.ronstantensilearch.com



Park Beach Plaza – Façade Design Parameters

RONSTAN
TENSILE ARCHITECTURE

1. Street Appeal
2. Open Deck Status
3. Relocatable




www.ronstantensilearch.com

Park Beach Plaza – Design Development

RONSTAN
TENSILE ARCHITECTURE

Stage 1



Reddog

www.ronstantensilearch.com

Park Beach Plaza – Design Development

RONSTAN
TENSILE ARCHITECTURE

Stage 2



Reddog

www.ronstantensilearch.com

Park Beach Plaza – Design Development

RONSTAN
TENSILE ARCHITECTURE

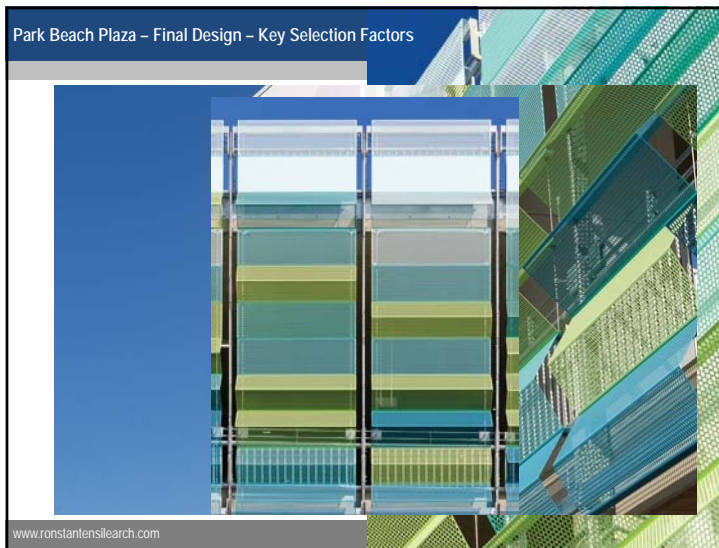
Stage 3

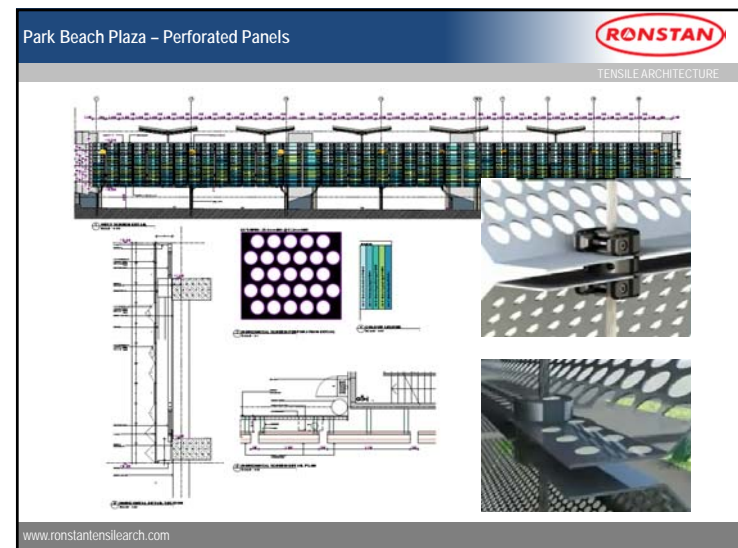
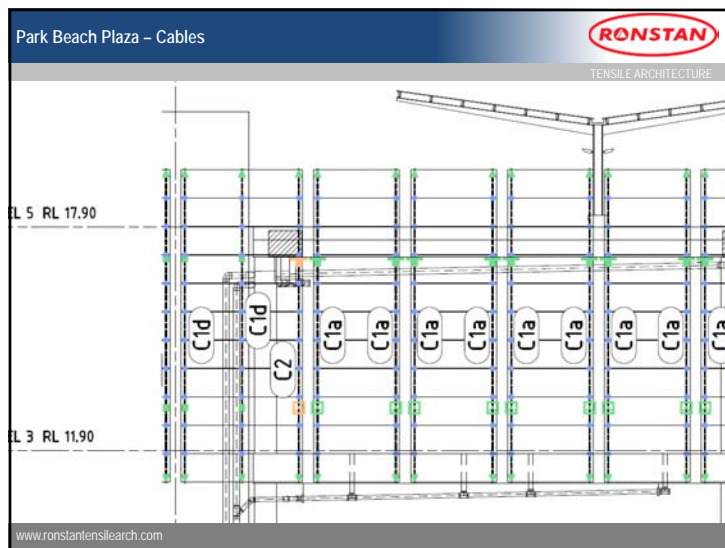
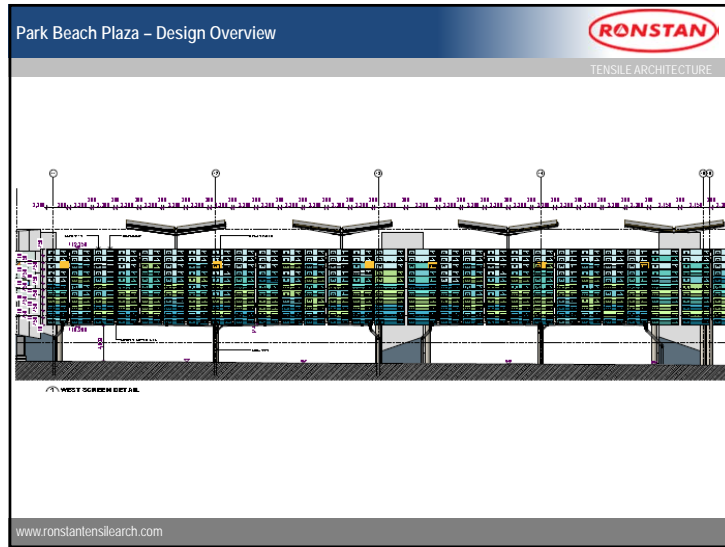


Reddog

View from South West

www.ronstantensilearch.com





Park Beach Plaza – Perforated Panels

RONSTAN

TENSILE ARCHITECTURE

Vision Vs Shading

www.ronstantensilearch.com

Park Beach Plaza – Cable /Panel Clamps

RONSTAN

TENSILE ARCHITECTURE

www.ronstantensilearch.com

Park Beach Plaza – Cable Connections

RONSTAN

TENSILE ARCHITECTURE

LOCKER ATMOSPHERE PANEL

RONSTAN CABLE SUPPORT

BEVELLED NUT AND WASHER
(BY RONSTAN/LOCKER)
*ISOLATE AS REQUIRED

SS NUT AND WASHER
(BY RONSTAN/LOCKER)
*ISOLATE AS REQUIRED

85

NOM. 250 FROM CL OF CABLE TO SLAB EDGE

BOTTOM CABLE CONNECTION
SCALE: 1:5

www.ronstantensilearch.com

Park Beach Plaza – Cable Connections

RONSTAN

TENSILE ARCHITECTURE

SS NUT AND WASHER
(BY RONSTAN/LOCKER)
*ISOLATE AS REQUIRED

BEVELLED NUT AND WASHER
(BY RONSTAN/LOCKER)
*ISOLATE AS REQUIRED

RONSTAN CABLE SUPPORT

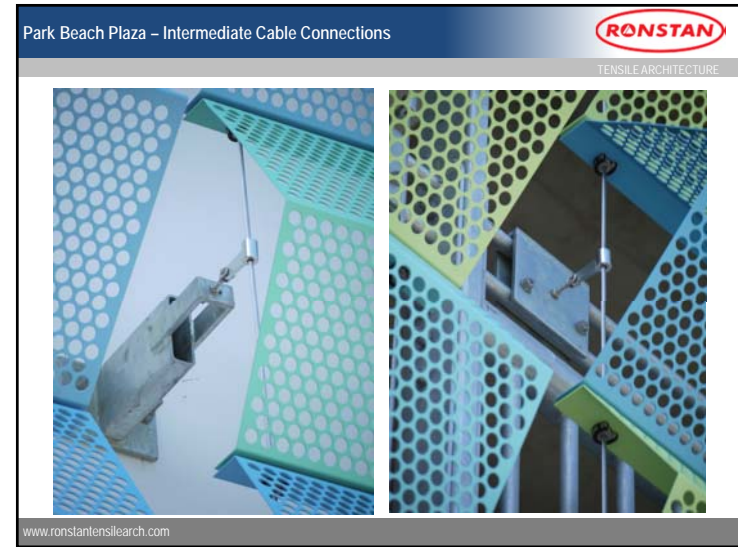
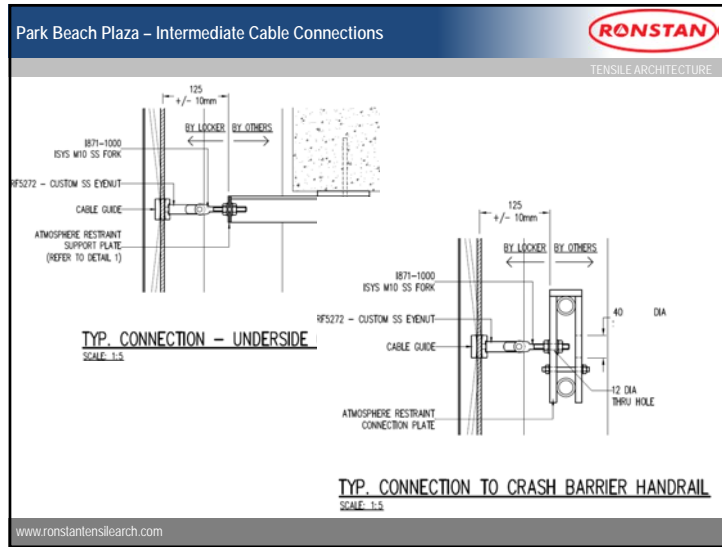
LOCKER ATMOSPHERE PANEL

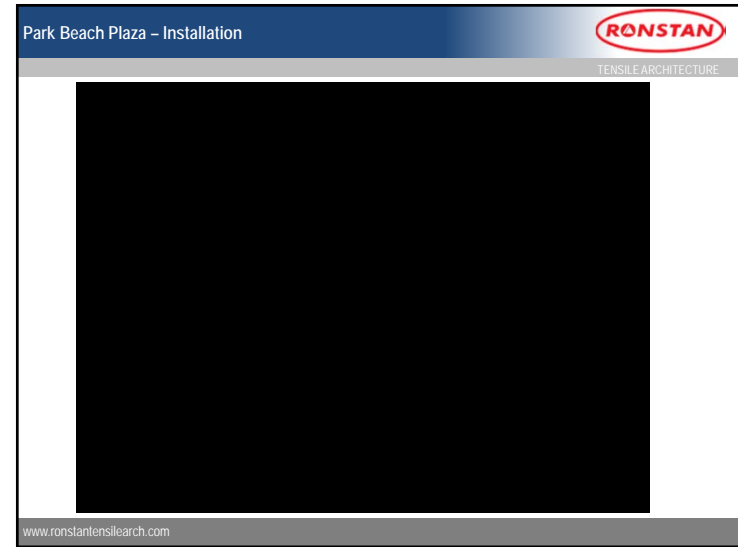
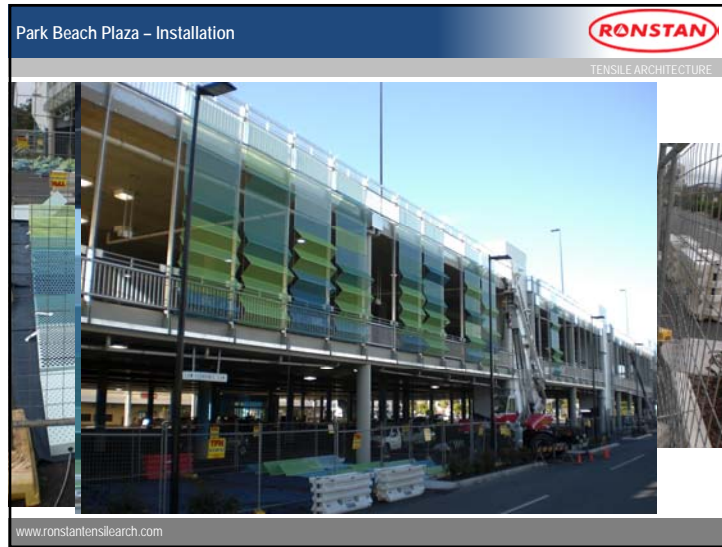
100

NOM. 250 FROM CL OF CABLE TO SLAB EDGE

TOP CABLE CONNECTION
SCALE: 1:5

www.ronstantensilearch.com





Thank you.

LOCKER group
A valmont COMPANY

ATMOSPHERE

Project Client:	Park Beach Plaza
Project Architect:	Red Dog Architecture
Project Engineer:	De Groot & Benson
Building Contractor:	Edwards Constructions
Cable Facade Contractor:	Ronstan Tensile Architecture
Specialist Engineer:	Tensys
Mesh:	Atmosphere by Locker Group

Rowan Murray / Paul Joseph
Ronstan Tensile Architecture
Melbourne, Australia

www.ronstantensilearch.com

This slide is a thank-you message. It features the logos for LOCKER group (A valmont COMPANY) and ATMOSPHERE. Below the logos is a list of project credits, including the Project Client, Project Architect, Project Engineer, Building Contractor, Cable Facade Contractor, Specialist Engineer, and Mesh. At the bottom, the contact information for Rowan Murray / Paul Joseph at Ronstan Tensile Architecture in Melbourne, Australia, is provided. The Ronstan Tensile Architecture logo is also present at the bottom.