About Us

Sanderson Theme Construction, is a division of the Sanderson Group of Companies, an Australian based Design and Construction Company, specializing in building Thematic Environments like Theme Parks, Water Parks, Restaurants, Hotels, Resorts, Family Integrated Entertainment Destinations etc.
Introduction

The Sanderson Group is an Australian based multi-national corporation with 30 years experience in delivering Themed Leisure and Entertainment Projects.

Sanderson Theme Construction Pvt ltd. is a division of the Sanderson Group of Companies, specializing in building Thematic Environments like Theme Parks, Water Parks, Restaurants, Hotels, Resorts, Family Entertainment Centers, etc. Coherent to the company's promise of providing turnkey solutions, Sanderson Group focuses on design and construction of themed environments.

GRC (Glass fibre Reinforced Concrete)

GRC is a cement based composite material reinforced with glass fibres which adds flexibility, and tensility, thus having a high impact strength. The final product achieved is a strong, durable, thin, lightweight material and has the advantage of quick installation.

GRC can be moulded into a variety of complex shapes, and the panels are 1/4th the weight of conventional precast concrete, which makes it easier to handle and install.

The GRC division manufactures various products as per the required dimensions & textures for both exterior as well as interior applications.
Applications

Our Architectural Range of Products Include:

- WALL PANELS
- WINDOW PANELS
- WINDOW HEADERS
- CORINTHIAN / IONIC / DORIC CAPITALS
- JALIS / GRILLS
- COLUMNS & CAPITALS
- BRACKETS
- CORNICES
- CORBELS
- DOOR ENTRANCE FEATURES
- FACADES
- MEDALLIIONS
- ARTISTIC MASONRY FORMS AND SHAPES
- REPLICA OF NATURAL STONES
  IN A VARIETY OF COLORS AND TEXTURES
- FOUNTAINS
- ARCHES
- DOMES
- PEDESTALS
- CUSTOMISED ARCHITECTURAL ELEMENTS
- BALUSTRADES

Process Flow At Sanderson Theme Construction

A. Pre-Production Process
   A-1 Project Cost Estimation
   A-2 Project Management
   A-3 Design & Shop drawing

B. Production Process
   B-1 Master
   B-2 Mould
   B-3 Production
   B-4 Demoulding

C. Post Production Process
   C-1 Finishing
   C-2 Acid Wash/Water Repellent
   C-3 Artistic Painting
   C-4 Packaging & Handling

D. Installation
   D-1 Mobile Scaffolding
   D-2 Lifting Crane/Carry Crane
   D-3 Gondola
   D-4 Monorail Scaffolding /
     Electric Winch Machine
B. Production Process

B-1 Masters

01) MDF, PLYWOOD

Design moulds are directly made using MDF or Plywood with specialised CNC cutting machine.

02) Clay / POP / Gypsum

If the thickness of element requires more depth, the master is intricately carved using Clay / POP / Gypsum for better finishes.

B-1 Masters

03) Expanded Polystyrene (EPS)

Equipment used

A hot-wire foam cutter is a tool used to cut polystyrene foam, and consists of a thin, taut metal wire, which is used for cutting any various complicated shapes for the master.

Final product

Different type of elements in EPS after cutting.

B-1 Masters

04) Plastic (PLA FILAMENT)

Equipment used

3D printing is a process in which a 3D design is used to slice the element into layers and the design is printed layer by layer on a 3D printer. Used for creating unique and customized products.

Final product

The 3D printer machine is in process of being procured.
B. Production Process

B-2 Moulds

Material

01) FRP Mould

FRP moulds are made by application of gelcoat, fibermat & resin.

02) Rubber Mould

Pouring of liquid rubber on the master for intricate designs

B-4 Demoulding

Demoulding process is the most critical process which involves use of overhead crane and later shifting of panels to the packing and dispatch division.

B-3 Production

Material

1) GRC

The GRC Spray Machine and Combination Mixer is used for spraying of White cement, Silica Sand, Admixtures and Alkali Resistant Glass Fibres.
C. Post Production Process

C-1 Finishing
C-2 Acid Wash/Water Repellent
C-3 Artistic Painting
C-4 Packaging & Dispatch

C. Post Production Process

C-3 Artistic Painting

Paint Booth (WURTH)

C. Post Production Process

C-1 Finishing

C-2 Acid Wash / Water Repellent

C. Post Production Process

C-4 Packaging & Dispatch
D. Installation

D. Installation of GRC Elements

D-1 Mobile Scaffolding
D-2 Lifting Crane / Carry Crane
D-3 Gondola
D-4 Electric Winch Machine

D. Installation

D-1 Mobile Scaffolding (Factory & Sites)

D. Installation

D-2 Lifting Crane / Carry Crane (Sites)

D. Installation

D-3 Gondola
Gondola used for installation of Architectural elements

D. Installation

D-4 Electric Winch Machine

Monorail Scaffolding
Units consist of:
- Suspended track
- Climbing track device
- Gondola
- Control system
- Winch hoist
D. Installation

The Process

Prior to commencement of installation, all site levels are marked with a laser machine.

Second GRC panel installation

Marking of each angle cleat is done by a plywood template at every level & the angle cleat will be fixed as per marking and alignment.