

# **Solidfeel Access Flooring (Pty) Limited**

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## **Solidfeel Info Guide**

(SFS Range)

## SOLIDFEEL ACCESS FLOORING

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### **Introduction:**

This document is a guideline document for installers to use within tender documents as well as general customer related work concerning Solidfeel Access Flooring. Within this document all primary technical information in regards to the Solidfeel range will be laid out.

All technical info within this document has been approved by responsible individuals as indicated on this page below. All info has been tested according to the following standards:

- SABS ( South African Bureau of Standards)
- CISCA (Ceilings & Interior Systems Construction Association)
- PSA ( Department of Environment Property Service Agency)

Solidfeel Access Flooring (Pty) Ltd.

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### **1. Solidfeel Access Flooring SFS range:**

SFS range is manufactured in SHANGAI under license of Solidfeel South Africa. Asian companies supply all raw materials. The SFS range consists of the following:

- Raised floor panel
- Substructure for the raised flooring
- Coverings
- Accessories for raised flooring

All products produced within Shangai comply with all raised flooring accredited associations (ex: SABS/CISCA/PSA)

### **2. SFS panel:**

Solidfeel manufactures arrange of cement filled panels as well as non cement filled panels. The range consists of the following:

- SFS 20 ( Cement Filled)
- SFS 25 ( Cement Filled)
- SFS 45 ( Cement Filled)
- SFS 70 ( Cement Filled)
  
- SFS Severn 52 Air flow ( Not Cement Filled)

All panels are manufactured from high grade steel and range from thicknesses of 0.7mm up-to 2mm. Each panel consists of a top plate and bottom pan. These two components get welded to each other through a spot welding process. Each panel contains +- 144 weld's through out the panel, ensuring the strength of the panel. Panels get tested for flatness and overall strength (Continuous flatness checks and every 250 panel goes through a strength test)

### **2.1 Epoxy-coating of the Solidfeel Panel:**

All SFS panels will go through an Epoxy-coating process. Epoxy-coating summary process:

- 1<sup>st</sup> panels go through a decreasing process
- 2<sup>nd</sup> panels go through a water rinsing process
- 3<sup>rd</sup> panels go through a phosphate process
- 4<sup>th</sup> panels go through a coating process

The color pigment used is a Grey color (Colour variations could occur from batch to batch)

### **3. SFS Understructure:**

Solidfeel SFS manufactures a vast range of understructure required for the installation of raised flooring. Different finishes for heights are required for different applications. The following understructure is manufactured by Singapore:

- **SFS Co2 welded Pedestals ( FFH range of 100mm up-to 700mm)**
  - These pedestals are standard manufactured pedestal and they use a pedestal base-plate and a cut to length tube which Co2 welded together.
  - These pedestal are test for welding strength, every 50<sup>th</sup> part is tested
  - The Co2 welded pedestal will comply to load test of not less than < 22.7kN/ 5Mpa
- **SFS Co2 welded Pedestal (FFH range from 700mm up-to 1.6m)**
  - These pedestal are manufactured according to the customer's requirements
  - These pedestal are for heavy duty application and they use a 3mm thick base-plate and cut to length heavy duty tube which is Co2 welded together
  - These pedestal are test for welding strength, every 50<sup>th</sup> part is tested
  - The Co2 welded pedestal will comply to load test of not less than < 22.7kN/5Mpa

- **SFS Field Head**
  - The field head forms part of the FFH of the floor, in combination with the pedestal the field head determines the FFH of the floor
  - The field head consist of a aluminum casted head and threaded rod which is screwed into each other
  - The field head will comply to load test of not less then  $< 22.7\text{kN}/5\text{Mpa}$
- **SFS Perimeter Head**
  - The Perimeter head forms part of the FFH of the floor, in combination with the pedestal the Perimeter head determines the FFH of the floor
  - The Perimeter head consist of a pressed head and threaded rod which is pressed into each other
  - The Perimeter head will comply to load test of not less then  $< 22.7\text{kN}/5\text{Mpa}$
- **SFS Stringer**
  - The Stringer forms part of the snap-lock system, in combination with the Snap-lock head determines grid lay out and ensures installation strength
  - The Stringer is formed from high grade galvanized steel
  - The Stringer will comply to load test of not less then  $< 1\text{kN}/5\text{Mpa}$

### **3.1 Cold Galvanized-coating of the SFS Understructure:**

All SFS understructure will go through a Zinc-coating process. Zinc-coating means coating of a steel product through a galvanized process. Zinc-coating summary process:

- 1<sup>st</sup> understructure goes through a decreasing process
- 2<sup>nd</sup> understructure goes through a water rinsing process
- 3<sup>rd</sup> understructure goes through a phosphate process
- 4<sup>th</sup> understructure goes through a Zinc coating process

All Zinc-coating of understructure will comply with a coating thickness of not less the  $< 8$  microns. Salt spray testing is done every month to ensure the rust resistance of the paint. All coating fluid is tested by the supplier and on site test are done 2 times a week.

The color pigment used is a Yellow zinc color (The Yellow Zinc color can be in different shades of yellow, this will be determined by the zinc process)

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#### **4. SFS Coverings:**

Solidfeel SFS is equipped to bond any covering on a raised floor panel as long as the covering can be cut to size of the panel. Standard coverings are as follow:

- HPL ( High pressure laminate, static or anti-static)
- Vinyl ( Conductive or anti-static)
- Carpet

The bonding of coverings onto panels is called the lamination process which is done on the lamination line, a special spraying adhesive is use to bond the covering and the panel. These bond processes will comply with all raised flooring accredited associations (ex: SABS/CISCA/PSA), A pull-off test is done every time lamination is required and will not be than < 50kg of pull-off strength.

#### **5. SFS Accessories**

Solidfeel SFS keeps stock of fare amount of accessory products, all these products will comply with all raised flooring accredited associations (ex: SABS/CISCA/PSA). Products are as follow:

- Double Cup Lifter ( For lift panels and placing panels)
- Carpet Lifter ( For lifting carpet bonded panels)
- Stringer gaskets ( Insolate all stringer)
- Freestanding head gaskets ( Insolate the freestanding field head)
- Grommets ( Used for cable outlets)
- Airflow grills ( For air-conditioning purposes)
- Cable support tray (Cable support as well as pedestal support)
- Panel lock screw ( if required to screw down panels on a Hvac Field Head and to screw down stringers on a perimeter head)
- Stringer screws ( If required for secondary locking of the stringer on snap-lock or Hvac field head)

#### **6. Summary**

Solidfeel Access Flooring Pty Ltd is recognized world wide of one of the leading quality manufactures of raised flooring and is back by an experienced team of engineers and workers. Solidfeel strives to be the best and will always comply to with all raised flooring accredited associations (ex: SABS/CISCA/PSA).