

Solidfeel Access Flooring (Pty) Limited

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Solidfeel Info Guide

(Solidfeel Range)

SOLIDFEEL ACCESS FLOORING

Date: Sept 12, 2007

Report No.: 00001

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Introduction:

This document is a guideline for installers to use within tender documents, as well as general customer related work concerning Solidfeel Access Flooring. This document lays out all primary technical information regarding the Solidfeel range.

All technical info within this document has been approved by the qualified individuals as indicated on this page below. All information 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:

Solidfeel Access Flooring (Pty) Ltd is a manufacturer of raised flooring within the Republic of South Africa. Most raw materials are supplied by South African companies. Solidfeel finished products are of South African origin. The Solidfeel range consists of the following:

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

All products produced within South Africa comply with the relevant raised flooring accredited associations (e.g. SABS/CISCA/PSA)

2. Solidfeel panel:

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

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

All panels are manufactured from high grade steel which range in thicknesses from 0.7mm up to 2mm. Each panel consists of a top plate and bottom pan. These two components are welded to each other through a spot welding process. Each panel contains +/- 180 welds, ensuring the strength of the panel. Panels are tested for flatness and overall strength (Continuous flatness checks and every 100th panel undergoes a strength test).

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2.1 E-coating of the Solidfeel Panel:

The Solidfeel paint process is an E-coating process. This process is similar to the E-coat paint process of a motor vehicle. E-coating means the electro coating of a steel product.

Summary of the E-coating process

Panels go through a:

1. Decreasing process
2. Water rinsing process
3. Phosphate process
4. Coating process
5. Baking process

All E-coating panels will have a coating thickness of not less than 20 microns. Salt spray tests are done every month to ensure that the rust resistance of the paint is to specification. All coating fluid is tested by the supplier and an on-site test is done every 2nd week.

The colour pigment used is of a Grey colour (Colour variance may be noticeable between various batches due to the baking process)

3. Solidfeel Understructure:

Solidfeel manufactures various types of understructure required for the installation of raised flooring. Pedestals are manufactured to customers' specified finished floor height (FFH) from 65mm to 150mm - Low lock system and there after the Free standing and Snap loc system in increments of 50mm to a maximum FFH of 1,6m. The following understructure is manufactured by Solidfeel:

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- **Solidfeel Low-loc head / pedestal (FFH range of 65mm up to 150mm)**
 - The Low-loc head / pedestal is a standard manufactured combination and consist of a pedestal base-plate (100mm x 100mm x 1,8mm thick) and a cut-to-length threaded D-tube which are arc-welded together. A steel pressed head is screwed into the aforementioned pedestal
 - These pedestals are tested for welding strength (every 50th pedestal is tested)
 - The arc-welded pedestal will comply to load tests of not less than 22.7kN / 5Mpa

- **Solidfeel Arc-welded Pedestals (FFH range of 100mm up to 700mm)**
 - Pedestals consist of a 100 x100 x 1.8mm base plate and a cut-to-length tube (25mm outside diameter x 1,6mm wall thickness) which are arc-welded together.
 - Pedestals are tested for welding strength (every 50th pedestal is tested)
 - The arc-welded pedestal will comply to load tests of not less than 22.7kN / 5Mpa

- **Solidfeel CO2 welded Pedestal (FFH range from 700mm up to 1.6m)**
 - Pedestals are manufactured according to the customer's requirement
 - These Pedestal are used for heavy duty application and consist of a 125mm x 125mm x 3mm thick base plate and cut-to-length heavy duty tube (27mm outside diameter x 2mm wall thickness) which are CO2 welded together
 - These pedestals are tested for welding strength (every 50th pedestal is tested)
 - The CO2 welded pedestal will comply to load tests of not less than 22.7kN / 5Mpa

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- **Solidfeel Field Head (Snap-lock/ Hvac/Freestanding Head)**
 - The Field head in combination with the pedestal determines the FFH of the floor
 - The field head consists of an aluminum casted head with locating pins on the head that fits into the 4 corners of the underside of the panel to ensure a positive loc between panel and head and a threaded rod which is air-pressed into each other including an adjustment nut and lock shroud
 - The field head will comply to load tests of not less than 22.7kN / 5Mpa

- **Solidfeel Perimeter Head**
 - The Perimeter head in combination with the pedestal determines the FFH of the floor
 - The Perimeter head consists of a pressed steel head and treaded rod which are arc-welded together including an adjustment nut and lock shroud.
 - The Perimeter head will comply to load tests of not less than 2.7kN / 5Mpa

- **Solidfeel Low-loc Head**
 - The Low-loc head in combination with its integrated threaded D-tube pedestal determines the FFH of the floor
 - The Low-loc head consists of either a pressed steel head which is screwed into a threaded rod which has been arc-welded to a base plate
 - The panels are fixed to the steel head with panel lock screws (Panel-loc system)
 - The Low-loc head will comply to load tests of not less than 2.7kN / 5Mpa

- **Solidfeel Stringer**
 - The Stringer forms part of the snap-lock system and in combination with the Snap-lock head assists with the grid layout and ensures the installation strength and adds additional stability if required.
 - The Stringer is formed from high grade galvanized steel
 - The Stringer will comply to load tests of not less than 1kN / 5Mpa

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3.1 E-coating of the Solidfeel Understructure:

All Solidfeel understructure is finished with an E-coating finish. This process is similar to the panel paint finish as above.

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4. Solidfeel Coverings:

Solidfeel is equipped to bond HPL, carpeting, wood laminates, vinyl coverings and hardwood to a raised floor panel as long as the covering can be cut to the size of the panel.

Standard coverings are as follow:

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

The bonding of coverings to panels is called the lamination process, which is done on a lamination line. A special spraying adhesive is use to bond the covering to panel. This bonding process will comply with all raised flooring accredited associations (e.g. SABS/CISCA/PSA). A standard laminated product will meet the 50kg pull test requirement.

5. Solidfeel Accessories

Solidfeel keeps stock of most accessory products, all of which comply with the relevant raised flooring accredited associations (e.g. 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 stringers)
- 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, Low-loc 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)

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6. Summary

Solidfeel Access Flooring (Pty) Ltd is recognised world wide as one of the leading quality manufactures of raised flooring and is backed by an experienced team of engineers and factory personnel. The Solidfeel Access Floor System is manufactured to the requirements that meet all the relevant raised flooring accredited associations' standard. (e.g. SABS/CISCA/PSA).