

## ■ Technical details

### Material

- Tiles are made of pregalvanised steel, according to EN 10326.
- The supports are made of recycled polypropylene. Inflammability class B2 according to DIN4102

### ■ Weights and measures

- Dimensions: 225 x 225 mm.
- Available different heights: 37, 60, 90 and 120 mm.
- Weight of Soluflex® cable floor system, approx 20 kg/m<sup>2</sup>.
- Thickness: 2 mm

### ■ Load bearing data

- Point load per tile/support: 1500 Newton/25 mm<sup>2</sup>
- Equal divided load of 30000 N per m<sup>2</sup>
- Minimum safety factor: V = 1.71

### ■ Acoustic characteristics

- **Flanking and insulation in accordance with ISO 717-1: 1996. Tested according to ISO 140-12:2000**

Soluflex® cable floor system without mineral wool underneath the partition wall: 48 dB.  
Soluflex® cable floor system with mineral wool underneath the partition wall: 60dB.

- **Vertical sound insulation improvement in accordance with ISO 140-12:2000**

Soluflex® cable floor system with carpet and without mineral wool underneath the partition wall: Ln,F,w = 49dB.  
Soluflex® cable floor system with carpet and with mineral wool underneath the partition wall: Ln,f,w = 39dB.

- **Vertical sound level of a floor finish in accordance with ISO. The improvement in sound proofing is measured in the underlying floor.**

Impact sound insulation of a floor finish according to ISO 717-2:1996.  
Tested according to ISO 140-6:1998  
Concrete floor 140 mm + Soluflex  
ΔLw = 17 dB  
ΔLlin = 7 dB  
Concrete floor 140 mm + Soluflex + carpet tiles  
ΔLw = 24 dB  
ΔLlin = 12 dB

### ■ Safety

- Safety against short circuits: Soluflex is earthed (as long as 1 earthing tile is installed per 100 m<sup>2</sup>)
- Fire resistance: due to its low plenum height Soluflex is self-extinguishing  
Tested according to BS EN 13501-1, class B (fl) S1

### ■ TNO-fire

#### Fire propagation

Its low plenum height enables the cable floor system to be self-extinguishing

#### EN 13501-1

B(fl) S1

#### NEN 1775

- A - Inflammability - complies with the class T1 criteria for inflammability
- B - Horizontal fire propagation: all heights maximum horizontal fire propagation = 0 cm, which implies a critical density of heat flow of more than 11 kW/m<sup>2</sup>  
Classification according to NEN 1775: Class T1

#### NEN 6066

With (highest) heat flow supply of 50 kW/m<sup>2</sup>:  
(highest) normative smoke density smaller than 0.5 m<sup>-1</sup>, which is very little smoke production in case of fire

#### DIN 4102

Resistance to fire in accordance with DIN 4102 Class B1

## ■ Level floor

The sub-floor must be dry, clean and level, suitable for laying carpet. If the floor is not level, it must be levelled before you start to install the Soluflex cable floor system. Please contact your floor specialist for professional advice

## ■ KEMA-certificate

Soluflex cable floor system has been certified by KEMA and meets the requirements for mechanical and electrical safety

## ■ Earthing

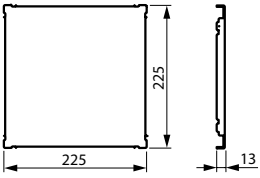
The cable floor system is automatically earthed, provided that 1 earthing tile is installed per 100 m<sup>2</sup>. Install an earthing tile every 14 m length in gangways

## ■ Other features

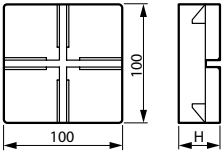
- The sub-floor should be dry, clean and levelled, suitable for carpeting.
- The cable floor system feels steady. Since the floor is not adjustable in height, it needs no later adjustment.
- The diagonal structure of the Soluflex floor means the cables are perfectly parallel, and you can cross data cables at the required angle of 90°.

■ Dimensions

Tile Cat.No 84000 10

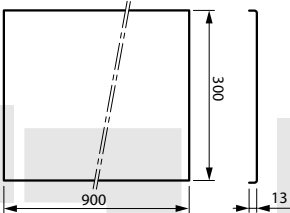


Support

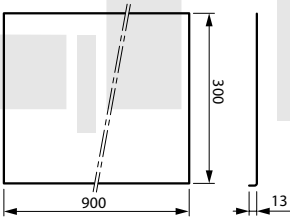


Cat.Nos	H (mm)
84037 00	35
84060 00	58
84090 00	88
84120 00	118

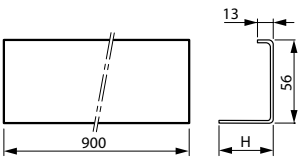
Double edge plate Cat.No 84000 60



Single edge plate Cat.No 84000 61

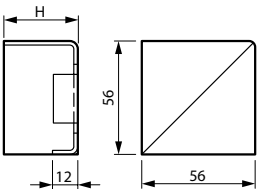


Plenum sealing



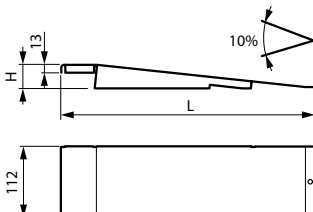
Cat.Nos	H (mm)
84037 20	37
84060 20	60
84090 20	90
84120 20	120

Plenum exterior angle



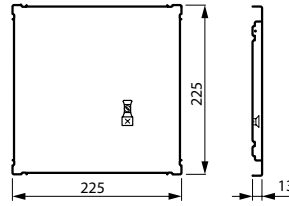
Cat.Nos	H (mm)
84037 30	37
84060 30	60
84090 30	90
84120 30	120

Ramp

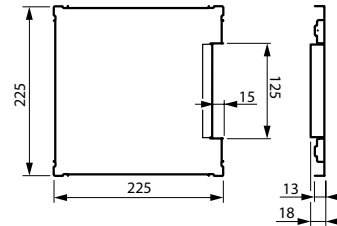


Cat.Nos	H (mm)	L (mm)
84037 40	37	400
84060 40	60	616
84090 40	90	898
84120 40	120	1181

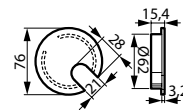
Earthing tile Cat.No 84000 20



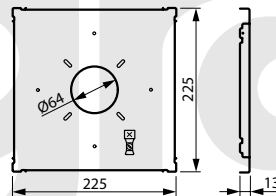
Cable outlet tile Cat.No 84000 30



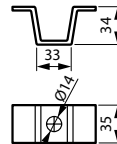
Chrome outlet grommet Cat.No 81902 32



Outlet tile Cat.No 84000 40



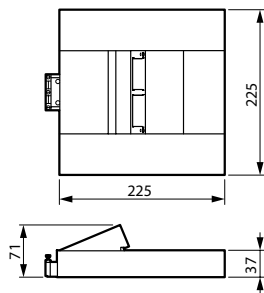
Fixing bracket Cat.No 84000 50



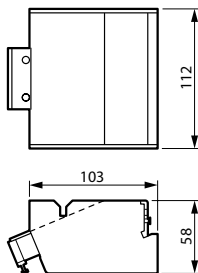
# Soluflex cable floor system

## ■ Dimensions

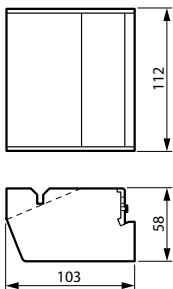
### Built-in Arteor unit for 37 mm height cable floor system



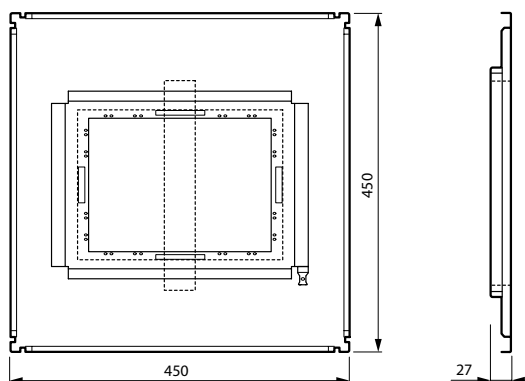
### Fully submerged Arteor power unit 2 x 240 V for 60 mm height cable floor system (empty)



### Fully submerged Arteor data unit 2 x 2 data for 60 mm height cable floor system (empty)



### Floor box tile



## Soluflex cable floor system

### ■ Installing the Soluflex cable floor system

- Start with a dry, clean and level sub-floor that is suitable for laying normal carpet. If the floor does not meet these requirements, level it first
- Start in the corner of the room and click the tiles into the supports. Leave a 10 mm gap between the wall and tile to allow for expansion. Continue to build the floor like this and cut fitting tiles or edge plates to size for final fitting against the wall
- You are now ready to open the cable routes using your cabling plan. Make sure that the cables are not placed under proposed locations of filing cabinets or other furniture as this limits flexibility
- The corners of the tiles have small recesses to enable them to be lifted using a screwdriver. Once one tile has been removed, the others can be removed by hand
- Now place the power track or cables into the cable routes, taking into account any extra cabling requirements for future flexibility
- By installing more outlet boxes you will be able to realise extra connections without interruption later
- Dependent on the floor height being installed, a choice can be made from various (pre-wired) outlet units in or on the cable floor
- Earth the cable floor system every 100 m<sup>2</sup> by means of an earthing tile
- In stretched areas such as corridors, place an earthing tile at least every 14 metres
- The electrical installation should always be carried out by a qualified electrician in conjunction with the requirements of the latest wiring regulations
- To create 'islands', install plenum with plenum angles to ensure a neat finishing of the system
- The ramp provides a constant transition from an existing floor to the Soluflex cable floor system
- The entire system can easily be dismantled and installed again as required, giving Soluflex a virtually unlimited life
- The finished installation can then be covered with rubber, stone, wood or carpet tiles
- Finishing with carpet tiles is advised for true flexibility and accessibility of the system

#### Cable routes



#### Completed Soluflex installation

