

Soluflex

Flexible • Freedom • Floor



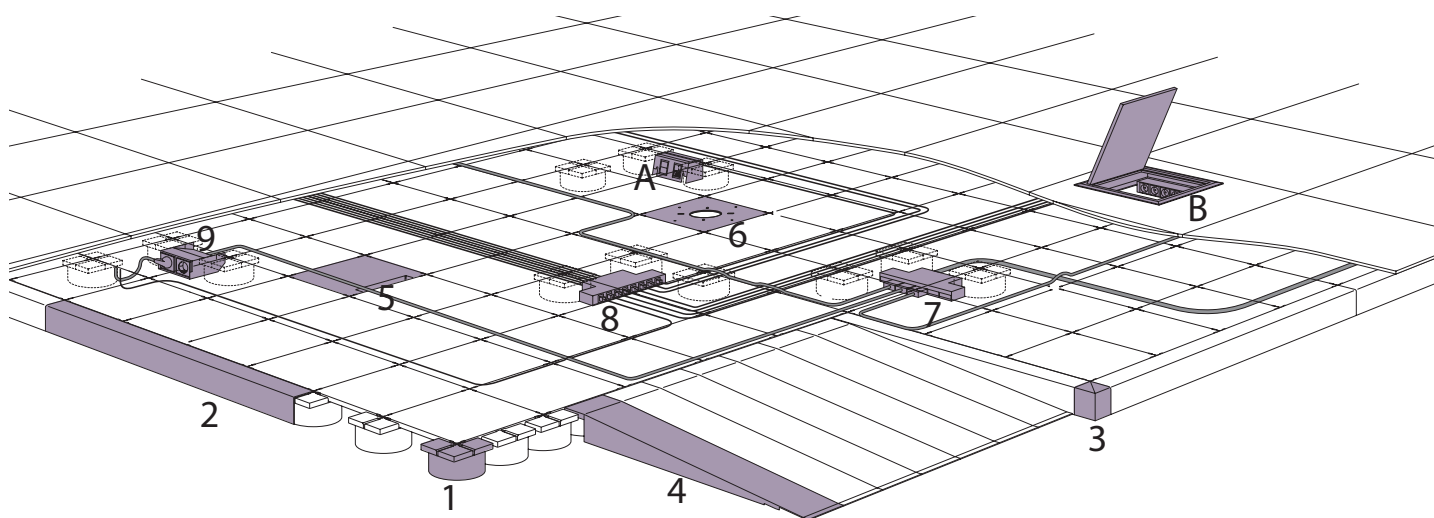
Technical catalogue



SOLUFLEX

THE CLEVER FLOOR SYSTEM

You no longer need to account for power, data and telecom connections when designing your office layout.



RANGE

Heights	
37 mm	
50 mm	
60 mm	
70 mm	
80 mm	
90 mm	
120 mm	
150 mm	

- 1 Black, polypropylene support
- 2 Stopend seal
- 3 Corner
- 4 Ramp
- 5 Cable exit tile
- 6 Fixing tile for column
- 7 Distribution box 6 way
- 8 Consolidation box data 8 way
- 9 Power unit 2 x 230V 45mm modules
- A Data unit
- B Lid & frame assembly for low floor voids

FLEXIBLE

Hundreds of thousands of square meters of Soluflex have already been installed around the world for good reason – the Soluflex cable floor system offers maximum design, freedom and flexibility.

Soluflex is made of 225 x 225mm metal tiles, mounted on polypropylene supports. Underneath there is ample room for cabling, meaning the end to trailing cables. Carpet tiles and other floor finishes make it complete and give unlimited freedom when designing work places.

FREEDOM

People rarely associate a floor with freedom, but the Soluflex cable floor system offers both designer and user the utmost freedom. Freedom in design because, really, everything is possible – the result is always a wonderful smart floor and an interior free from exposed cables and extensions.

Managers of office buildings can achieve considerable cost savings when companies relocate. Modifications to work places can easily be carried out by the end user himself, during working hours. The Soluflex cable floor system provides great freedom when installing new cables as part of renovation projects.

FLOOR

A floor is literally the base on which work takes place. Time spent considering the functionality of the infrastructure under the floor and looking ahead will definitely be worth the effort. By choosing this practical, flexible and attractive floor system, efficiency and productivity are boosted. Drastic conversion projects are a thing of the past.

With a life cycle of approximately 40 years, you only need to choose Soluflex once.

After that, the users will only experience the benefits.



FOR MORE INFORMATION



/// www.legrand.co.za



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/// **Training:** Please consult our website or contact us for training options.

Technical data

Material:

- The floor tiles are made of pregalvanised steel, according to EN 10346.
- The supports are made of polypropylene.

Dimensions and loads:

- Tile dimensions: 225 x 225 mm.
- Available in eight different heights: 37, 50, 60, 70, 80, 90, 120 and 150 mm.
- For loading data, please contact our sales office.

Acoustic characteristics

- Flanking air sound difference 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: 60 dB.

Transmitted impact noise level, according to ISO 717-2:1996.

- Soluflex cable floor system with carpet and without mineral wool underneath the partition wall: $L_{n,f,w} = 49\text{dB}$.
- Soluflex cable floor system with carpet and with mineral wool underneath the partition wall: $L_{n,f,w} = 39\text{dB}$.

Vertical impact 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
i $L_w = 17\text{ dB}$
i $L_{lin} = 7\text{ dB}$
- Concrete floor 140mm + Soluflex + carpet tiles
i $L_w = 24\text{dB}$
i $L_{lin} = 12\text{ dB}$

Other features:

- Specifications on required subfloor characteristics are available on request.
- 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°.

TNO fire behaviour:

Fire propagation

The low plenum height means that the cable floor system is self-extinguishing.

- NEN-EN 13501-1 B(fl) S1
- NEN 1775:

A – Inflammability – Satisfies the class T1 criteria for inflammability.

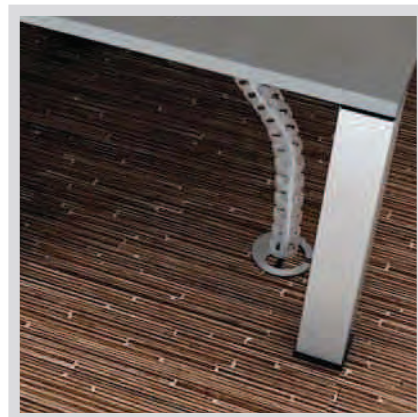
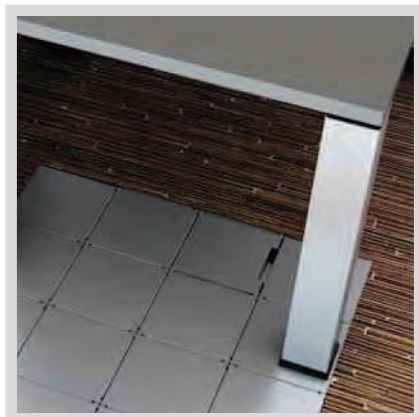
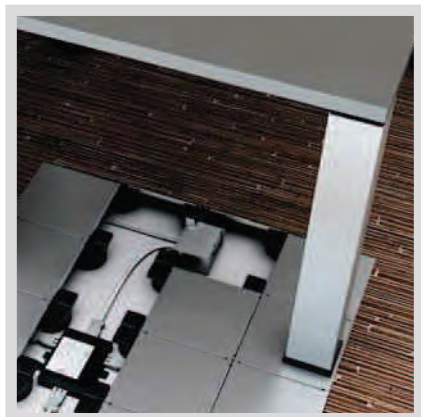
B – Horizontal flame spread: All thicknesses – maximal horizontal flame spread = 0 cm, signifying a critical heat flow density of more than 11 kW/m².

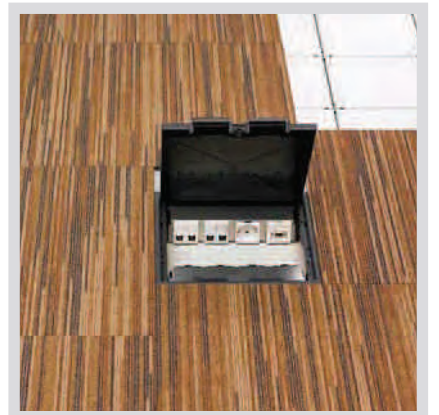
Classification according to NEN 1775: Class T1.

- NEN 6066:

For maximum heat flow of 50 kW/m²: maximum indicative smoke density less than 0.5 m⁻¹, signifying a very weak smoke emission in the case of fire.

The sub-floor should be dry, clean and level, suitable for carpeting and compliant to flatness class 4 to NEN 2747. For anhydrite screed floors, flatness class A to URL 0705-04 dtd 2004-03-17 is required.





Selection chart Soluflex Cable Floor System

H = 37/50/60/70/80/90/120/150 mm

Height (mm)	Tile	Support	Double edge plate	Single edge plate	
	Pregalvanised/L225 mm x W225 mm x H13 mm	Polypropolene	Pregalv./L900 mm x W300 mm/2x returned edges of 13 mm	Pregalv./L900 mm x W275 mm/1x returned edge of 13 mm	
			Trim to size on site to join to wall	Trim to size on site to join to wall	
H37	8400010	8403700	8400060	8400061	
H50		8405000			
H60		8406000			
H70		8407000			
H80		8408000			
H90		8409000			
H120		8412000			
H150		8415000			

Height	Earthing tile	Cable exit tile	Grommet	
	Pregalv./L225 mm x W225 mm x H13 mm	Pregalv. /L225 mm x W225 mm x H13 mm	Chromed	
	Earthtag 6 mm ² 1 tile per 100 m ² or in corridors max 14 meters apart	Cutout of 124 x 14,5 mm To feed cables to workplace	To use with outlet tile 8400040 To feed cables to workplace	
H37 - H150	8400020	8400030	8190232	

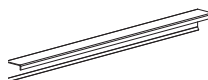
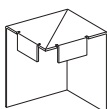
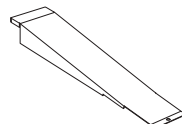
Connections in floorboxes:

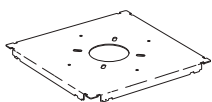
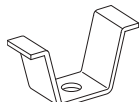
From Soluflex Height = 60 mm the wiring accessories can be put in fully recessed floor boxes



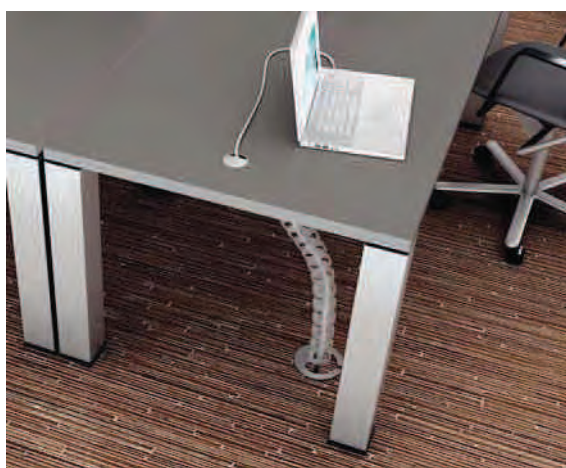
Ref.nr.	Accessory
8400170	Soluflex Service Channel Soluflex Channel fixing bracket For fixation of plenum seal. Use with Soluflex Service Channels Number depends on width, length and shape of channel



	Stopend seal	Corner	Ramp		
	Pregalv./L900 mm x W56 mm/H....	Pregalv./L56 mm x W56 mm/H....	Pregalv. W112mm/10% incline		
	To close floor gap when put in free space		1 extra support to be used per ramp		
			<div>Length</div>	 <div>Height (mm)</div>	
	8403722	8403730	400 mm	8403740	H37
	8405022	8405030	523 mm	8405040	H50
	8406022	8406030	616 mm	8406040	H60
	8407022	8407030	712 mm	8407040	H70
	8408022	8408030	803 mm	8408040	H80
	8409022	8409030	898 mm	8409040	H90
	8412022	8412030	1181 mm	8412040	H120
	8415022	8415030	1456 mm	8415040	H150

Outlet tile	Fixing bracket	Height
Pregalv. /L225 mm x W225 mm x H13 mm		
For columns, minicolumns + cable worm and grommet 8190232, Cutout of \varnothing 64 mm	For fixation of column or mini column to concrete floor by means of outlet tile 8400040	
		Height

Cable spine provides a clean, neat and safe finish of each workplace.
Cables for all office equipment can be neatly arranged inside the cable spine. Its design lends a touch of class to each workplace.



POP-UPS FOR DESKTOPS, FLOORS AND MEETING ROOMS

Slim design for perfect integration into the floor or office furniture


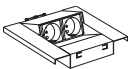

FEATURES:



- Easy to use and all necessary connections are within reach
- Soft opening for enhanced comfort and safety
- Push and slide latch to avoid accidental opening
- Available in 3, 2 x 3, 4 and 2 x 4 modules, can be equipped with Mosaic or Arteur outlets (2P+E, RJ 45, HD 15)
- Available finishes; stainless steel, white aluminium, brass, black.

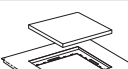






Selection chart Soluflex Cable Floor System floorboxes

H = 37/50/60/70/80/90/120/150 mm


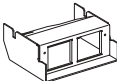
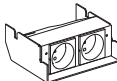
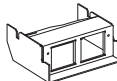
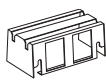
Height (mm)	Soluflex equipment		
	Outlet unit empty	Outlet unit 2x 230V prewired	Outlet unit 2x data (empty)
	Pregalv./L225 mm x W225 mm	Pregalv./L225 mm x W225 mm	Pregalv./L225 mm x W225 mm
	Equipped with terminal and cable clamp/ Can be fitted with 2 x 45mm Mosaic units	Schuko /Fully prewired with 2x single Mosaic socket, terminal and cable clamp	For 4 Mosaic LCS data-connectors
			
H37	8403750	8403757	8403751

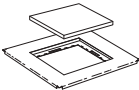

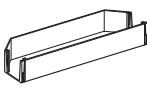
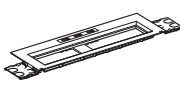
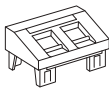

Height (mm)	Soluflex equipments: Distribution box	
	Distribution box 6 way	Distribution box 6 way
	Plastic, black	Pregalvanised
	1 x GST 18 in, 1 x GST 18 out , prewired with 6 x GST 18 tapoffs	1 cable entry, 1 cable exit, prewired with 6 fastconnector tapoffs, terminal and cable clamp
		
H37 - H150	8190509	8400077 ⁽¹⁾




Height (mm)	Soluflex floor box solutions: floor box for low floorvoid				
	Tile for square floorbox	Square floorbox low floors	Accessory unit 8 Mosaic mod.	Accessory unit data connectors	Adapter frame
	Pregalv.L450mm x W450 mm	Plastic RAL7011/ L272 x W272 x H58 mm			
	For square floorbox art.nr. 84549 02 Incl. wooden temporary screed cover	With base box H=58mm and 2 cable clamps. Add 2 accessory units	Unit for 8 modules Mosaic For single or multiple sockets or data-connectors	Unit for 4 data frame adapters. For 4 x 2 keystone connectors	
					
H60 - H150	8409051	8454902	8454920	8454921	81905xx ⁽³⁾




Selection chart Soluflex Cable Floor System floorboxes

H = 37/50/60/70/80/90/120/150 mm (continued)

Height (mm)	Soluflex floor box solutions: Floor box for low floor voids				
	Cable exit tile	Power unit square 45 2 x 230V (empty)	Power unit square 45 2x 230V (pre-wired)	Data unit square 45mm (empty)	Floor unit universal (empty)
	Pregalv./L225 mm x W225 mm x H13 mm	Pregalv.	Pregalv.	Pregalv.	Pregalv.
	Cutout 124 x 14,5 mm To feed cables to workplace	Provided with terminal. Can be prewired for 2x Mosaic modular sockets. To use with cable exit tile art.nr. 8400030	Completely prewired with 2 single Mosaic Schuko sockets and terminal. To use with cable exit tile art.nr. 8400030	For installation of 2 Mosaic LCS data connectors (2 mod.) or 4 regular LCS data connectors To use with cable exit tile art.nr. 84000 30	For third party keystone connectors. Use with adapter frames 81905xx and cable exit tile art.nr. 84000 30
					
H60	8400030	8406072 ⁽²⁾	8406078	8406073 ⁽²⁾	8406050

Height (mm)	Soluflex floorbox solutions: Floorboxes for Mosaic (3x 9 modules)					
	Floorbox tile square	Floorbox square 3 x 9 mod	Mounting box large	Mountingplate M45 large	Data housing	Cable clamp
	Pregalv./L450 mm x W450 mm	Plastic, with carpet trim	Plastic	Plastic		Plastic
	For square floorbox art.nr. 84538 52 Incl. wooden temporary screed cover	Combine with mountingbox large and mountingplate M45 large	For 9 modules Mosaic	For 9 modules Mosaic		
						
H90 - H150	8409051	8453852	8455002	8455032	81906xx ⁽³⁾	8455006

Height (mm)	Soluflex floorbox solutions: Pop-up floor unit 3 modules		
	Floorbox tile for Pop-up 3 modules	Pop-up 3 modules	Backbox for Pop-up 3 modules
	Pregalv./L225 mm x W225 mm x H13 mm	Brushed Stainless steel	Steel
	With cutout for 3 module Pop-up floor unit	Soft opening, slim design, excluding Mosaic outlets	To seal off the back of Pop-up units
			
H90 - H150	8409055	054020	054000

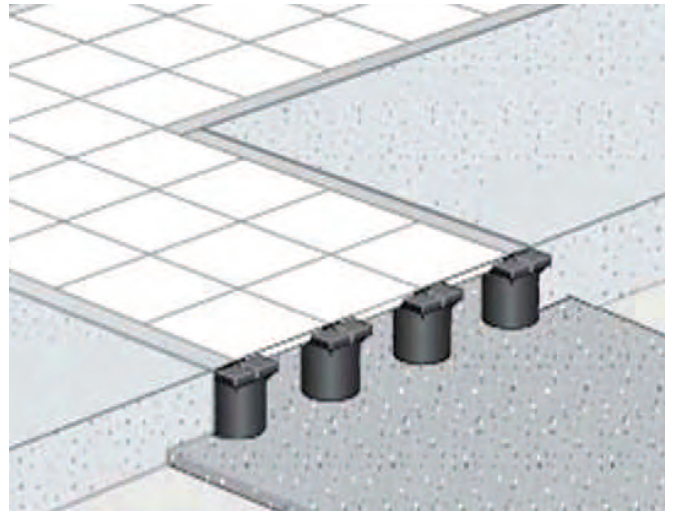
Height (mm)	Soluflex floorbox solutions: Pop-up floor unit 4 modules		
	Floorbox tile for Pop-up 4 modules	Pop-up 4 modules	Backbox for Pop-up 4 modules
	Pregalv./L225 mm x W225 mm x H13 mm	Brushed Stainless steel	Steel
	Witj cutout for 4 module Pop-up floor unit	Soft opening, slim design, excluding Mosaic outlets	To seal off the back of Pop-up units
			
H90 - H150	8409056	054021	054001

SERVICE CHANNEL

Service Channel is installed on a flat surface to obtain a level and clean base floor.

Another advantage of Service Channel is the possibility to neatly arrange and separate power and data cables by means of cable paths between the supports. Service Channel offers all outlet options under or on the floor surface, just like the Soluflex solutions.

In short, Service Channel combines the functionality of a flush floor channel with the flexibility of Soluflex.



FEATURES AND BENEFITS

- Width of Channel 2, 3, 4 or 5 tiles
- Ultimate flexibility where needed
- Maximum cable capacity due to minimal thickness of tile
- Level and clean base floor
- Good price/flexibility ratio
- Excellent acoustic qualities
- Ample choice of wiring accessories and dataconnectors
- Cost efficient; can be installed only where needed
- Can be installed when architecture does not allow a total Soluflex solution throughout the building, or when heavy objects or machinery impose a solid floor in certain areas.

