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raised floor systems

Cablelink Plus Single Pan

Cablelink Plus Single Pan Box provides an effective interface between services beneath the floor and the office environment. Robust design, constructed with a single piece metal frame, the floorbox is available with 1 to 4 compartments and a choice of 95mm or 70mm box depths.

- Tested to pr EN50085-2-2 to accept 5000N load
- Designed to support Cat 6 structured cabling systems
- 70mm pan depth has been designed for those applications with shallow voids
- Device plate can be adjusted to provide increased wiring space or greater plug top clearance
- Self closing lid in accordance with draft IEC 61534-22
- Quality, reliability and safety come as standard
- Provision of RCD protection supports compliance with the 17th Edition Wiring Regulations'
- 5 year guarantee

Materials

All plastic components are manufactured from UL94 V2 rated nylon.

Metal components are manufactured from pre-galvanised steel, accessory plates are powdercoated or colour coated.

Standards

The Cablelink Plus Single Pan Box supports compliance with the latest edition of the IEE Wiring Regulations (BS 7671) and to BS EN50085 Part 1 and draft EN50085 Part 2-2. Additionally the floorboxes also comply with IEC 60670 Parts 1 and 23.

Installation

Cablelink Plus Single Pan boxes should not be installed in the following situations:

- Where protruding electrical cables are likely to cause a safety hazard
- In passageways, especially where trolleys or other vehicles may be used
- On escape routes, as this may impede the evacuation of the occupants from the building
- Where the cleaning methods employed result in the formation of pools of liquid or soaking of the floor surface
- Desks, chairs, shelving, filing cabinets should not be positioned on the floorbox as this will interfere with opening the lid

RAL Colours

Grey (GRY) = RAL 7011

Light Grey (LGY) = RAL 7046

Cat 6 Compatibility

With the introduction of Cat 6 data cabling the orientation and depth of many data outlets has changed resulting in the need for greater backbox depths and wiring space to accommodate these longer data outlet. No longer is a 35mm wiring space sufficient to ensure data terminations can be made to the manufacturer's recommendations to prevent transmission losses. As a result MK has introduced 45mm wiring space for the Cablelink Plus Floorbox systems (as well as for the Prestige 3D wall trunking system.) This easily accommodates the longer Cat 6 data outlets and leaves sufficient space for the data cable to run underneath it.

Load Testing

Load Testing of Floorboxes to draft pr EN50085 Part 2-2 (Clauses 10.5.103 and 10.5.104).

The floorboxes have been tested to and comply with the loading requirements of draft pr EN50085 Part 2-2 (Cable trunking systems and cable ducting systems for electrical installations Part 2-2: Particular requirements for cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor).

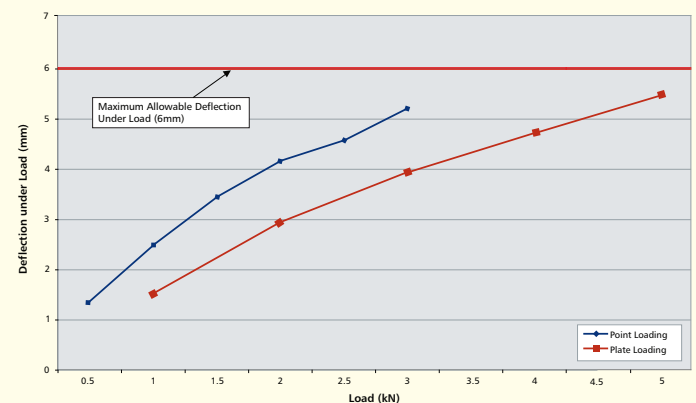
There are two loading criteria for the floorboxes - one with a point loading to replicate foot traffic for example, and the other, with a large plate to replicate fork trucks and heavier larger loads for example. For both loading criteria the maximum allowable deflection under load is 6mm and the maximum permanent deflection after the load has been removed is 3mm.

The Lid Deflection (loading) graph shows that the maximum point loading classification achieved is 3kN and the maximum large plate loading classification achieved is 5kN.

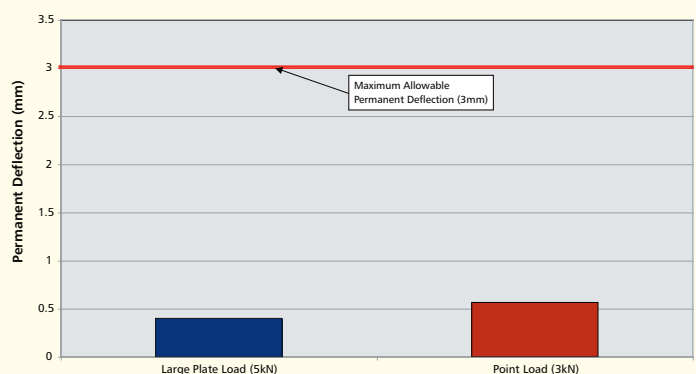
The Permanent Deflection graph shows the permanent deflection from the test wheel loading at 3kN is 0.55mm and large plate loading at 5kN is 0.4mm. This is well within the maximum allowable deflection of 3.0mm. The loading position is the centre of the lid.

Note: This test data specifically refers to the 265x265mm sized floorbox frame assembly. The other floorbox sizes also comply with the required test criteria. Declarations of conformity are available on request for the entire range.

Lid Deflection – Cablelink Plus 265x265mm Frame Assembly



Permanent Deflection After Removal of Load – Cablelink Plus 265x265mm Frame

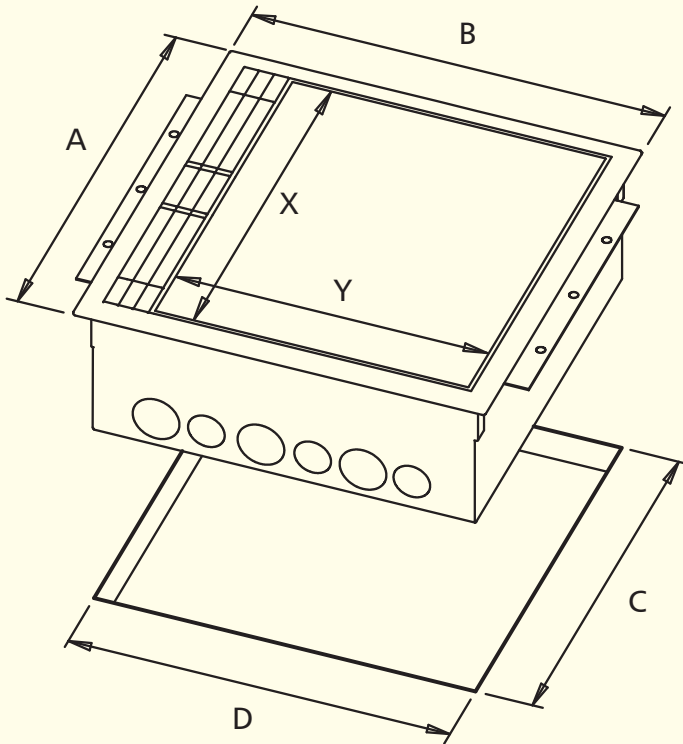


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Floorbox: Tile and Frame and Floor Tile Cut-Out Dimensions



DIMENSIONS (mm)				
	100x200mm	200x200mm	265x265mm	340x265mm
A	130	222	287	362
B	222	222	287	287
C*	115	210	275	350
D*	206	206	271	271

* General tolerance = +1.5mm.

The table below shows the sizes required for the carpet lid infill for the Cablelink Plus Single Pan Floorboxes.

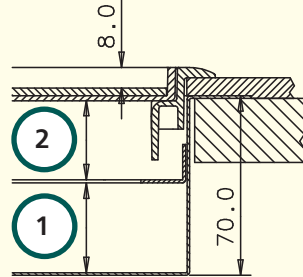
DIMENSIONS (mm)	100x200		200x200		265x265		340x265	
	X	Y	X	Y	X	Y	X	Y
Carpet Infill	93	152	185	152	251	219	326	219

Knockouts

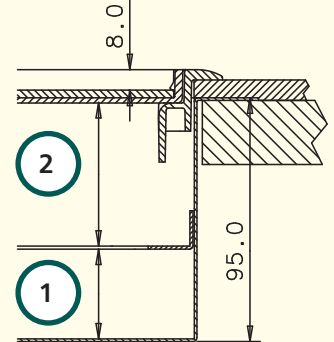
1 compartment box is supplied with 20 and 25mm knockouts. 2, 3 and 4 compartment boxes are supplied with 2x20mm, 1x25mm, 1x32mm knockouts respectively, per compartment.

[†] In the published 17th Edition of the IEE Wiring Regulations, these requirements are found in Regulation 543.7. (16th Edition = Section 607)

70mm BOX



95mm BOX

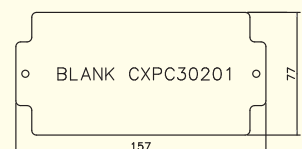
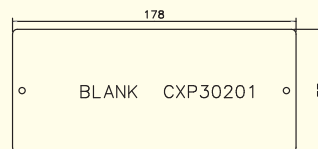


- ① This height can be adjusted on site. Please see table below for dimensions
- ② This dimension assumes a floor covering thickness of 8.0mm. A thinner covering will reduce this dimension accordingly.

Plug Top Clearances

DIMENSIONS (mm)		70mm Box		95mm Box	
1	Wiring Space	35	25	35	45
2	Plug Top Clearance	31	41	56	46

Plate Dimensions (mm)



Dual Earth Sockets and High integrity Earthing[†]

Modern offices, schools, universities, laboratories etc. are heavy users of IT, computing and electronic equipment. As most of this equipment is fitted with a filter mechanism to protect data and data transmission against RFI and power surges, small earth leakages emanating from this equipment introduces a current onto the Circuit Protective Conductor (CPC) effectively turning this into a functional earth.

Should the CPC be broken, any equipment downstream of the break is no longer connected to earth. If a fault now occurs in this equipment, the CPC could rise to the mains potential and the fault transferred to other equipment on the circuit. The implicit risks to equipment, data and most importantly users in this situation are dealt with in the 17th Edition of the IEE Wiring Regulations[†], and have led MK Electric to introduce Dual Earth Sockets.

Dual Earth Sockets allow the designer and installer to maintain the earth integrity of the system, in accordance the the 17th Edition of the IEE Wiring Regulations[†] is intended to maintain at all times the CPC to ensure safety.

Clean Earth Sockets

Clean Earth Sockets allow the designer & installer to introduce a protective conductor connecting sensitive equipment i.e. a computer, directly to the main earth.

This reduces the possibility of 'noise' occurring on the protective conductor through induced voltages from other equipment, and hence can have benefits in maintaining data and data transmission integrity.