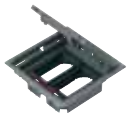
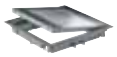
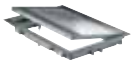
# OptiLine 45 Floor boxes
## Range

## Floor outlet boxes

| | Type | Colour | Dimensions A/B/C (mm) | Qty per pack | Ref. No. |
|---|---|---|---|---|---|
| | Floor outlet box including mounting frames for Altira outlets, trim frame with four quick-fix devices and lid with cable exit. Also including a plastic bag containing cable holder, partition wall and strain relief devices. The lid can be installed in two positions. It can be fitted with floor material of up to 6 mm thickness or with the lid infill accessory. The mounting frames are snapped into the trim frame. The height of the mounting frames is adjustable from 70 mm to 100 mm, in steps of 5 mm. The floor outlet box is suitable for 45x45 mm single outlets or 45x90 mm double outlets.<br>Material: PA6 with 30% glass pellets, steel. Mounting frame for Altira = PC/ABS, for Unica = PBT. | | | | |
| P89490  | Four module box, with two mounting frames for two double or four single Altira outlets | Grey | 72/199/199 | 1 | ISM50624 |
| P89489 | Six module box, with three mounting frames for three double or six single Altira outlets | Grey | 72/276/199 | 1 | ISM50636 |
| P89488 | Eight module box, with two mounting frames for four double or eight single Altira outlets | Grey | 72/276/199 | 1 | ISM50638 |

## Floor access boxes

| | | | | | |
|---|---|---|---|---|---|
| | Floor access box including trim frame with four quick-fix devices, two swivel fixings and screw-fixed lid. The lid can be fitted with floor material of up to 6 mm thickness or with the lid infill accessory, the swivel fixings suit raised floors ranging from 23 to 56 mm in thickness. To be used together with screeded floor box of PP or steel in screeded floors.<br>Material: PA6 with 30% glass pellets, steel. | | | | |
| P85831  | Square | Grey | 33/199/199 | 1 | ISM50520 |
| P85832  | Rectangular | Grey | 33/276/199 | 1 | ISM50530 |

## Screeded floor boxes

| | | | | | |
|---|---|---|---|---|---|
| | **Plastic box** | | | | |
| | Screeded floor box for embedment in screeded floors from 75 to 95 mm thickness. With cut-outs for floor trunking and conduits<br>Ø 25 and 40 mm.<br>Material: PP. | | | | |
| P85833 | For square floor outlet and access boxes and up to 150 mm wide floor trunking | Light grey | 75-95/188/188 | 1 | ISM50320 |
| P85834 | For rectangular floor outlet and access boxes and up to 200 mm wide floor trunking | Light grey | 75-95/188/265 | 1 | ISM50330 |
| | **Steel box** | | | | |
| | Screeded floor box including trunking adaptors, for embedment in screeded floors from 75 to 110 mm thickness. Adaptors on all four sides.<br>Material: Sheet steel. | | | | |
| P85808 | For square floor outlet and access boxes and up to 200 mm wide floor trunking | — | 75-110/350/350 | 1 | ISM50322 |
| | For rect. floor outlet and access boxes and up to 200 mm wide floor trunking | — | 75-110/350/350 | 1 | ISM50332 |
| | For square floor outlet and access boxes and up to 350 mm wide floor trunking | — | 75-110/500/500 | 1 | ISM50323 |
| | For rect. floor outlet and access boxes and up to 350 mm wide floor trunking | — | 75-110/500/500 | 1 | ISM50333 |

# OptiLine 45 Floor boxes
## Range

## Screeded floor boxes

| Type | Colour | Dimensions A/B/C (mm) | Qty per pack | Ref. No. |
|---|---|---|---|---|
| **Adaptors for steel box** | | | | |
| Adaptor with break-out openings for conduits, to be fitted in the screeded floor box. Intended for the connection of 1–4 or 1–6 conduits Ø 25 and 40 mm.<br>Material: Sheet steel, galvanized. | | | | |
| For 1–4 conduits<br>Ø 25 or 40 mm | — | 83/1.5/252 | 5 | ISM50392 |
| For 1–6 conduits<br>Ø 25 or 40 mm | — | 83/1.5/403 | 5 | ISM50393 |
| Blank plate to be fitted in the screeded floor box.<br>Material: Sheet steel, galvanized. | | | | |
| Blank plate | —<br>— | 83/1.5/252<br>83/1.5/403 | 5<br>5 | ISM50394<br>ISM50395 |

P85846

P85847

# OptiLine 45 Floor boxes
## Range

## Floor trunking

P111057

| Type | Colour | Dimensions A/B/C (mm) | Qty per package | Ref. No. |
|---|---|---|---|---|
| **Floor trunking with two compartments** | | | | |
| Floor trunking with two compartments and integrated separation wall, intended for use in screeded floors, in combination with screeded floor boxes of plastic or metal. Available in two heights, 28 and 38 mm.<br>Material: Sheet steel, galvanized. | | | | |
| 150x28 mm | — | 28/150/2000 | 2 m | 4260101 |
| 150x38 mm | — | 38/150/2000 | 2 m | 4260111 |
| 200x28 mm | — | 28/200/2000 | 2 m | 4260102 |
| 200x38 mm | — | 38/200/2000 | 2 m | 4260112 |

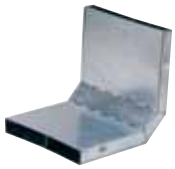
P111058

| | | | | |
|---|---|---|---|---|
| **Floor trunking with three compartments** | | | | |
| Floor trunking with three compartments and integrated separation walls, intended for use in screeded floors, in combination with screeded floor boxes of plastic or metal. Available in two heights, 28 and 38 mm.<br>Material: Sheet steel, galvanized. | | | | |
| 250x28 mm | — | 28/250/2000 | 2 m | 4260106 |
| 250x38 mm | — | 38/250/2000 | 2 m | 4260116 |
| 350x28 mm | — | 28/350/2000 | 2 m | 4260107 |
| 350x38 mm | — | 38/350/2000 | 2 m | 4260117 |

P111056

| | | | | |
|---|---|---|---|---|
| **Fixation clamp** | | | | |
| Clamp intended to fix a floor trunking to the concrete floor and to hold the position at the screeded floor-box junction. The clamp suits both 28 mm and 38 mm high trunking, making an adjustment by rotation of the end clips.<br>Material: Sheet steel, galvanized. | | | | |
| For 150 mm floor trunking | — | 30/312/40 | 1 | 4260121 |
| For 200 mm floor trunking | — | 40/262/30 | 1 | 4260122 |
| For 250 mm floor trunking | — | 30/312/40 | 1 | 4260123 |
| For 350 mm floor trunking | — | 30/411/40 | 1 | 4260124 |

P111059



| | | | | |
|---|---|---|---|---|
| **Vertical corner with two compartments** | | | | |
| Vertical corner with two compartments and an integrated separation wall. Intended to guide cables from vertical to horizontal direction. The bend of the corner is chamfered, allowing a proper bending radius of the cables.<br>Material: Sheet steel, galvanized. | | | | |
| For 150x28 mm trunking | — | 201/150/201 | 1 | 4260133 |
| For 150x38 mm trunking | — | 201/150/201 | 1 | 4260140 |
| For 200x28 mm trunking | — | 201/200/201 | 1 | 4260134 |
| For 200x38 mm trunking | — | 201/200/201 | 1 | 4260141 |

| | | | | |
|---|---|---|---|---|
| **Vertical corner with three compartments** | | | | |
| Vertical corner with three compartments and two integrated separation walls. Intended to guide cables from vertical to horizontal direction. The bend of the corner is chamfered, allowing a proper bending radius of the cables.<br>Material: Sheet steel, galvanized. | | | | |
| For 250x28 mm trunking | — | 201/250/201 | 1 | 4260138 |
| For 250x38 mm trunking | — | 201/250/201 | 1 | 4260145 |
| For 350x28 mm trunking | — | 201/350/201 | 1 | 4260139 |
| For 350x38 mm trunking | — | 201/350/201 | 1 | 4260146 |

P85796

| | | | | |
|---|---|---|---|---|
| **Earthing kit** | | | | |
| Kit including earth wire with flat pin connectors and earthing clamps. Intended to provide an earth connection between two metal floor trunking bodies, or other sheet metal products.<br>Material: Spring steel, copper. | | | | |
| Earthing kit | Yellow/green | L = 200 | 10 | ISM10953 |
| | | L = 300 | 10 | ISM10954 |

# OptiLine 45 Floor boxes
## Range

## Accessories

### Mounting frame for Altira outlets

Mounting frame for floor outlet box (the 139 mm mounting frame for both floor box sizes, the 216 mm mounting frame only for the rectangular ones). Suitable for single or double Altira outlets. For DIN devices the mounting frame must be combined with the corresponding size of base box.
Material: PC/ABS.

P85846

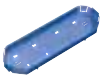
| | | | | |
|---|---|---|---|---|
| For two single or one double outlet | Anthracite grey | 38/64/139 | 6 | ISM50809 |
| For four single or two double outlets | Anthracite grey | 38/64/216 | 4 | ISM50810 |

### Base box

Base box to be combined with the mounting frame in order to fulfil IP20 (the 126 mm base box for both floor box sizes, the 203 mm base box only for the rectangular ones). May also be used to mount DIN devices.
Material: PA6.

P85847

P85836

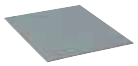


| | | | | |
|---|---|---|---|---|
| For two single or one double outlet | Blue | 23/64/126 | 10 | ISM50800 |
| For four single or two double outlets | Blue | 23/64/203 | 10 | ISM50801 |

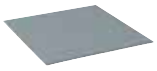
### Lid infill, linoleum

Lid infill to be used in the lid of floor outlet boxes or floor access boxes. Provided with self-adhesive tape underneath.
Material: Linoleum.

P85843



P85844



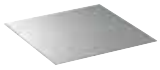
| | | | | |
|---|---|---|---|---|
| For square boxes | Grey | 6/139/167 | 1 | ISM50807 |
| For rectangular boxes | Grey | 6/139/245 | 1 | ISM50808 |

### Lid infill, steel

Lid infill to be used in the lid of floor outlet boxes or floor access boxes. Provided with a protective film on the upper suface and a soft rubber layer with self-adhesive tape underneath.
Material: Stainless steel, rubber.

P93897

P93898



| | | | | |
|---|---|---|---|---|
| For square boxes | – | 6/139/167 | 1 | ISM50817 |
| For rectangular boxes | – | 6/139/245 | 1 | ISM50818 |

### Modular device kit, Altira

Modular device kit for DIN devices, including DIN-rail and transparent grey cover with white frame. Suitable for one or two 18 mm DIN devices, e.g. miniature circuit breakers. To be used only in combination with mounting frame for Altira outlets and blue base box.
Material: PC+ASA (DIN-rail), PC/ABS and PC (cover with frame).

P92622

| | | | | |
|---|---|---|---|---|
| Modular device kit, Altira | White | 72/45/90 | 1 | ISM50811 |

### Swivel fixing

Swivel fixing to be mounted on each side of the floor outlet and access boxes. To be used in raised floors with a thickness ranging from 23 mm to 56 mm. Intended as a spare part.
Material: PA6, steel.

P85838

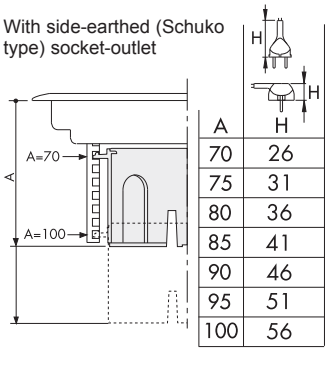
| | | | | |
|---|---|---|---|---|
| Swivel fixing | Blue | 58/12/25 | 2 | ISM50823 |

# OptiLine 45 Floor boxes
Technical description

## Dimensions

### Floor heights

With side-earthed (Schuko type) socket-outlet




| A | H |
|---|---|
| 70 | 26 |
| 75 | 31 |
| 80 | 36 |
| 85 | 41 |
| 90 | 46 |
| 95 | 51 |
| 100 | 56 |

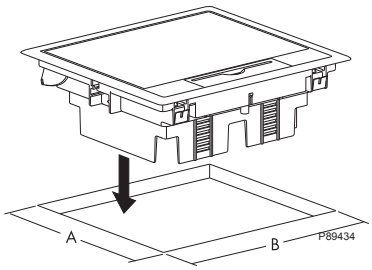
| B | H | DIN |
|---|---|---|
| 85 | 26 | — |
| 90 | 31 | — |
| 95 | 36 | — |
| 100 | 41 | — |
| 105 | 46 | OK |
| 110 | 51 | OK |
| 115 | 56 | OK |

Without base box

With base box

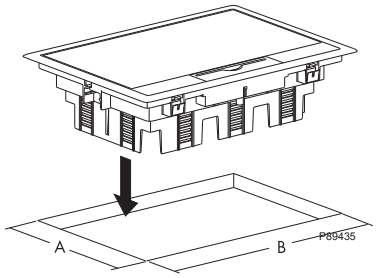
### Hole dimensions

Square box




A: 178 ±1
B: 178 ±1

Rectangular box




A: 178 ±1
B: 255 ±1

### Cable capacity Floor trunking

| Type | A mm² | B mm² | Total mm² |
|---|---|---|---|
| **Floor trunking with two compartments** | A B | | |
| 150x28 mm | 1885 | 1885 | 3770 |
| 150x38 mm | 2610 | 2610 | 5220 |
| 200x28 mm | 2535 | 2535 | 5070 |
| 200x38 mm | 3510 | 3510 | 7020 |
| **Floor trunking with three compartments** | A B A | | |
| 250x28 mm | 1898 | 2450 | 6246 |
| 250x38 mm | 2628 | 3430 | 8686 |
| 350x28 mm | 3198 | 2450 | 8846 |
| 350x38 mm | 4428 | 3430 | 12286 |

# OptiLine 45 Floor boxes
Technical description

## Technical and Material data Floor boxes

| | | |
|---|---|---|
| PA6 | Density | 1.13 g/cm$^3$ |
| | Linear expansion Floor boxes | 70-100x10$^{-6}$ m/m °C |
| | Fire rating | UL94 V2 (3.2 mm) |
| | Colour | Blue RAL 5003<br>Grey RAL 7011 |
| PA6 with 30% glass pellets | Density | 1.36 g/cm$^3$ |
| | Linear expansion | 40-70x10$^{-6}$ m/m °C |
| | Fire rating | UL 94 HB |
| | Colour | Grey RAL 7011 |
| PBT with 30% glass-fibre | Density | 15.2 g/cm$^3$ |
| | Linear expansion | 40-70x10$^{-6}$ m/m °C |
| | Fire rating | UL 94 HB (1.5 mm) |
| | Colour | Light grey |
| PC/ABS | Density | 1.14 g/cm$^3$ |
| | Water absorption | 0.6% |
| | Volume resistivity | >10$^{13}$ Ω cm |
| | Dielectric strength | 19 kV/mm |
| | Fire rating | UL 94 HB (halogen-free) |
| | Colour | Anthracite grey |
| PC+ASA | Density | 1.15 g/cm$^3$ |
| | Linear expansion | 80x10$^{-6}$/°C |
| | Water absorption | 0.6% |
| | Volume resistivity | >10$^{13}$ Ω cm |
| | Dielectric strength | 17 kV/mm |
| | Fire rating | UL 94 HB |
| | Colours | White RAL 9010 |
| PP | Density | 0.91 g/cm |
| | Linear expansion | 110x10$^{-6}$ m/m °C |
| | Fire rating | UL 94 HB (1.5 mm) |
| | Colour | Light grey |
| Sheet steel | Specification | S 350 GD |
| | Density | 7.8 g/cm$^3$ |
| | Surface treatment | Zinc coated |
| Degree of protection | IP20 | |
| Temperature range | Operating temperature from -25°C to +60°C | |
| Standards | The products comply with the standards: | |
| | • IEC 61084-1 : 1991 ed1 | |
| | • IEC 61084-2-2 : 2003<br>The products satisfy the provisions for CE marking according to the Low Voltage Directive 73/23/EEC and 93/68/EEC | |
| Cable capacity | 860 mm$^2$, max. cable Ø 11 mm | |

## Technical and Material data Floor trunking

| | | |
|---|---|---|
| Sheet steel | Density | 7.8 g/cm3 |
| | Surface treatment | Zinc coated |
| Impact resistance | IK10 | |
| Degree of protection | IP40 | |
| Standards | The products comply with the standard EN 50085-1 | |
| Temperature range | Operating temperature from –15°C to +60°C | |