

Feeder Pillars

Product Brochure



Charles  **Endirect**

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Charles Endirect **Distribution** Products



Please note the images in this document are for illustration purposes only, they are not to scale, and colour may vary.

Company Overview

Charles Endirect Limited (CEL) is a family-owned organisation and a leading designer and manufacturer of electrical components and equipment. For use in the street lighting, highway, EV supply and construction industries. CEL have been delivering products to UK and international markets since 1984 and is a founder member of the Highway Electrical Manufacturers and Suppliers Association, an active member of the Highway Electrical Association and a Member and supporter of the Institution of Lighting Professionals.

The company is an ISO9001: 2015, ISO14001:2015 and ISO45001:2008 quality certified organisation with all areas of the company operating stringent quality control systems. Products are designed and manufactured to meet, or exceed, all relevant legislation.

Products

Charles Endirect's industry experience and expertise enable the company to design and manufacture some of the most innovative, high specification and robust products available in the market.

This includes one of the most comprehensive ranges of feeder pillars in the UK; starting from the slimline and compact Mini pillar range to the new Mega pillars. Designed to meet customer demand for ever larger cabinets. If models in the standard range are not suitable for your needs, a bespoke metalwork design and build service is available.

Pillars can be pre-wired to your specification and tested before they leave the factory, this keeps installation time on-site to a minimum. Charles Endirect Ltd work with you from the initial enquiry through to design, testing, certification and dispatch to ensure everything runs smoothly.

Service

As a family-owned organisation, we know how important good customer service is. To ensure we can provide you with the level of support and service you need, when you need it, we endeavour to retain high levels of stock for our standard ranges to enable us to dispatch in one to two working days and offer a next working day service if time is of the essence.

To request a quotation or for more information about our products and services, please contact our Customer Services Team or speak to your CEL Area Sales Manager.



sales@charlesendirect.com

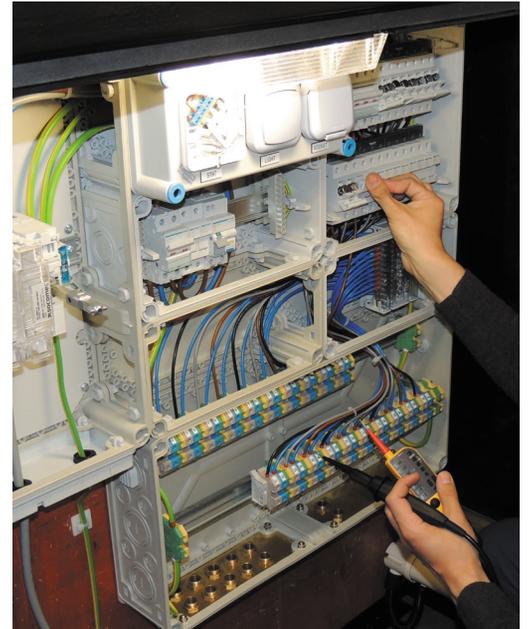


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www.charlesendirect.com

We also offer *in-ground distribution solutions* with our *SIGMA* and *GIFAS* products. Contact us for details.



Standard Pillars

Key Features and Benefits

- ✓ Constructed from either HR4 3mm or 5mm thick mild steel or 3CR12 stainless-steel; robust, and durable for long term use
- ✓ Hot dipped galvanised to BS EN ISO 1461 standard; protects against rust and corrosion; extends life of product
- ✓ Detachable painted root (excluding Mini range); gives long lasting protection and ease of installation
- ✓ Pillars are fitted internally with either 12mm or 18mm external grade, fully treated plywood backboard; strong, stable and knot free
- ✓ 6mm brass earth stud on pillar and door with 500mm earth strap; protects individuals and equipment
- ✓ Ground level clearly marked for safety and ease of installation
- ✓ Pillars are supplied with hazard warning labels to BS EN ISO 7010 standard; saves time and cost for installer
- ✓ Door seals designed to IP55; protects against dust and water spray
- ✓ Tri-head, CLL Anti-vandal lock or multipoint locking systems ensures security and protects against tampering
- ✓ Cast stainless-steel block hinges; strong and resist rust and corrosion
- ✓ Pre-fitted lifting eyes where needed for ease of transport and installation
- ✓ Integral door stays on larger pillars; lock doors at 90° for safety
- ✓ Recessed or flush doors for security and protection

Options available

- ✓ Powder coating to RAL or BS colours, anti-graffiti,
- ✓ G2A and Heritage style
- ✓ Painted root where not as standard
- ✓ Louvre panels to doors or side panels dependant on model
- ✓ Construction in 304 or 316 grade stainless-steel
- ✓ Hasp & staple available for added protection
- ✓ Various lock types
- ✓ Cable exit trays

Specialist Pillars

Heritage Style Paint Finish

Many pillars from the BDP, CFP and market trader ranges can be finished in Heritage Style, adding elegance and character to your lighting scheme.

Pillars are painted black with gold filigree as standard, but other options such as green and gold are available.

Stainless-Steel Shells

With a design life of some 50 years, stainless-steel pillars offer ultimate durability and long service. They are ideal for use in marine environments such as ports and seaside towns where extra protection against the elements is needed. They also offer a more stylish and modern design for city centre locations. Products can have a brushed or polished finish.

If you want something out of the ordinary, we offer a design and build service for bespoke stainless-steel pillars including grade 316.

Market Trader Pillars

Our Smithfield and Barbican pillars provide temporary supply options for outdoor markets and outdoor event areas. They are easy to install and have separately locking top and bottom doors, for supplier and user connections. Both are available in a range of paint finishes.

GRP Pillars

With a design life of 30 years, the GRP pillars offer a low maintenance, flexible solution and have an excellent size to weight ratio.

Pre-wired Distribution Pillars and Distribution Pillars for EV Charging

Our dedicated in-house design team consists of fully qualified and experienced electrical and mechanical engineers; this means we can offer an unparalleled service, both in terms of the design and the technical submission.

Our pillars are built, assembled, and tested at our factory in Wincanton, Somerset, enabling us to have full quality control through the entire process. This means you receive a pillar that is fully tested and ready for installation on site.

We also offer a design and build service for bespoke pillars in galvanised or stainless-steel, including grade 316. You can have the design you want to meet the needs of your specific project.

MINI Range: SMP, FMP

Single door pillars with a fixed root in 3mm galvanised steel

- ✓ A choice of designs offering different solutions allowing you to choose the right option for your project
- ✓ Pillars are designed to be slimline and compact, perfect for where space is limited or for simple distribution needs
- ✓ Hot dipped galvanised shell to BS EN ISO 1461 standard; protects against rust and corrosion; extends life of product
- ✓ Pillars are fitted internally with long lasting 12mm external grade backboard; strong, stable and knot free
- ✓ 6mm brass earth stud on pillar and door with 500mm earth strap; protects individuals and equipment
- ✓ Ground level is clearly marked for ease of installation
- ✓ Pillars are supplied with hazard warning labels to BS EN ISO 7010 standard: saves time and cost for installer
- ✓ Door seals designed to IP55; protects against dust and water spray
- ✓ Tri-head secure locks for security and protection

SMP standard door, simple design model

- ✓ Simple, entry level pillar with a flat fitting door for good ingress protection.

FMP Folded door, maximum internal access

- ✓ This mid-range unit has been designed with a fold around door to enable maximum access to the internal working area

MINI pillar options

- ✓ Powder coated finish available to RAL or BS colours, anti-graffiti and G2A specification for highway works
- ✓ Construction in stainless-steel casing - 3mm grade 304
- ✓ Louvres in door; one top, one bottom, for ventilation
- ✓ SMP, FMP models: root can be painted for added protection
- ✓ Security Hex lock instead of tri-head locks

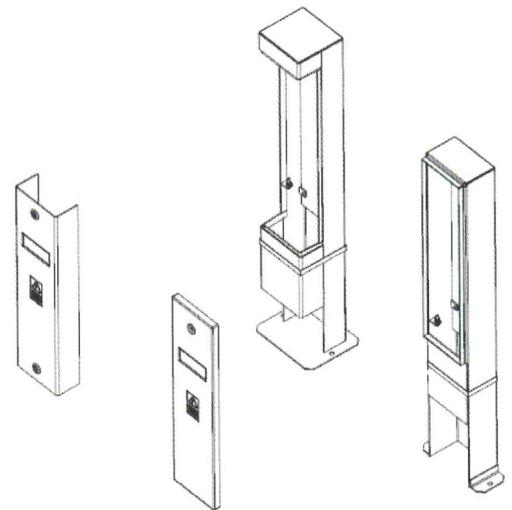


FMP
Folded door,
maximum access



SMP
Standard, flat
fitting door

FMP and SMP comparison



| Range: Sizes in mm | Model ref | Doors | Root | H | W | D | Root H | Back- board H | Back- board W | Back- board D | Working depth | Door aperture H | Door aperture W | Weight approx Kg | Shell thick- ness |
|--------------------------|--------------|-------|-------|-----|-----|-----|-----------|---------------------|---------------------|---------------------|------------------|-----------------------|-----------------------|------------------------|-------------------------|
| MINI | SMP30 | 1 | Fixed | 700 | 160 | 150 | 300 | 600 | 150 | 12 | 130 | 580 | 142 | 16 | 3 |
| MINI | SMP40 | 1 | Fixed | 700 | 210 | 150 | 300 | 600 | 200 | 12 | 130 | 580 | 192 | 18 | 3 |
| MINI | SMP40/S | 1 | Fixed | 700 | 210 | 150 | 300 | 600 | 200 | 12 | 130 | 580 | 192 | 18 | 3 |
| MINI | SMP60 | 1 | Fixed | 950 | 360 | 150 | 300 | 800 | 350 | 12 | 130 | 780 | 342 | 34 | 3 |
| MINI | FMP15 | 1 | Fixed | 460 | 300 | 150 | 150 | 290 | 285 | 12 | 130 | 280 | 285 | 16 | 3 |

*S = stainless steel

MIDI Range: BDP

Single door pillars in 3mm galvanised steel

- ✓ Hot dipped galvanised to BS EN ISO 1461 standard; protects against rust and corrosion; extends life of product
- ✓ Detachable painted root; gives long lasting protection and ease of installation
- ✓ Pillars are fitted internally with 12mm external grade, fully treated plywood backboard; strong, stable and knot free
- ✓ 6mm brass earth stud on pillar and door with 500mm earth strap; protects individuals and equipment
- ✓ Ground level clearly marked for safety and ease of installation
- ✓ Pillars are supplied with hazard warning labels to BS EN ISO 7010 standard: saves time and cost for installer
- ✓ Door seals designed to IP55; protects against dust and water spray
- ✓ Tri-head secure locks for security and protection
- ✓ Cast stainless-steel block hinges offer strength and rigidity
- ✓ Accepts CEL stainless-steel distribution boards
- ✓ Recessed door provides improved anti-vandal properties.
- ✓ Larger pillars fitted with lifting eyes

BDP/FP2 features higher security

- ✓ Hasp and staple and CLL anti-vandal locks
- ✓ Louvres fitted on doors for ventilation

MIDI pillar options

- ✓ Powder coated finished to RAL or BS colours, Heritage style, anti-graffiti and G2A specification for highway works
- ✓ Construction in stainless-steel casing - 3mm grade 304.
- ✓ CLL anti-vandal locks instead of Tri head locks.
- ✓ Hasp & staple and Yale lock for added security.
- ✓ Louvres in door: one top, one bottom, for ventilation.
- ✓ Cable exit trays and document holder (excluding BDP50)
- ✓ Document holder



BDP MIDI pillars



BDP/FP2



Heritage style finish

| Range: Sizes in mm | Model ref | Doors | Root | H | W | D | Root H | Back-board H | Back-board W | Back-board D | Working depth | Door aperture H | Door aperture W | Weight approx Kg | Shell thickness |
|--------------------|-----------|-------|------------|------|------|-----|--------|--------------|--------------|--------------|---------------|-----------------|-----------------|------------------|-----------------|
| MIDI | BDP/FP2 | 1 | Detachable | 710 | 450 | 250 | 300 | 590 | 430 | 12 | 230 | 490 | 345 | 44 | 3 |
| MIDI | BDP50 | 1 | Detachable | 750 | 250 | 150 | 300 | 650 | 230 | 12 | 130 | 550 | 144 | 27 | 3 |
| MIDI | BDP60 | 1 | Detachable | 850 | 350 | 225 | 300 | 750 | 330 | 12 | 205 | 650 | 244 | 42 | 3 |
| MIDI | BDP60/S | 1 | Detachable | 850 | 350 | 225 | 300 | 750 | 330 | 12 | 205 | 650 | 244 | 42 | 3 |
| MIDI | BDP70 | 1 | Detachable | 950 | 450 | 250 | 300 | 850 | 430 | 12 | 230 | 750 | 344 | 56 | 3 |
| MIDI | BDP70/S | 1 | Detachable | 950 | 450 | 250 | 300 | 850 | 430 | 12 | 230 | 750 | 344 | 56 | 3 |
| MIDI | BDP80 | 1 | Detachable | 1050 | 550 | 275 | 300 | 950 | 530 | 12 | 255 | 850 | 444 | 70 | 3 |
| MIDI | BDP80/S | 1 | Detachable | 1050 | 550 | 275 | 300 | 950 | 530 | 12 | 255 | 850 | 444 | 70 | 3 |
| MIDI | BDP90 | 1 | Detachable | 1150 | 650 | 300 | 300 | 1050 | 630 | 12 | 280 | 950 | 544 | 87 | 3 |
| MIDI | BDP100 | 1 | Detachable | 1250 | 800 | 325 | 300 | 1150 | 780 | 12 | 305 | 1050 | 694 | 109 | 3 |
| MIDI | BDP120 | 1 | Detachable | 1250 | 1000 | 325 | 300 | 1150 | 980 | 12 | 305 | 1050 | 894 | 135 | 3 |

*S = stainless steel

MAXI Range: CFP

Single and two door pillars in 3mm or 5mm galvanised steel.

- ✓ Hot dipped galvanised to BS EN ISO 1461 standard; protects against rust and corrosion; extends life of product
- ✓ Detachable painted roof; gives long lasting protection and ease of installation
- ✓ Pillars are fitted internally with 18 mm external gate, fully treated plywood backboard; strong, stable and knot free
- ✓ 6mm brass earth stud on pillar and door with 500mm earth strap; protects individuals and equipment
- ✓ Ground level clearly marked for safety and ease of installation
- ✓ Pillars are supplied with hazard warning labels to BS EN ISO 7010 standard: saves time and cost for installer
- ✓ Door seals designed to IP55; protects against dust and water spray
- ✓ CLL anti-vandal locks fitted for added security and peace of mind
- ✓ Recessed doors provide improved anti-vandal properties
- ✓ Cast stainless-steel block hinges; strong and resist rust and corrosion
- ✓ Accepts CEL stainless- steel distribution boards
- ✓ Larger pillars fitted with lifting eyes
- ✓ 5mm pillars come fitted with integral, cast stainless-steel door stays

MAXI pillar options

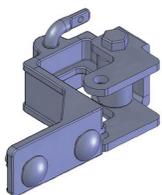
- ✓ Powder coated finish to RAL or BS colours, Heritage style, anti-graffiti and G2A specification for highway works
- ✓ Construction in stainless-steel casting - 3mm grade 304
- ✓ Hasp & staple and Yale lock for added security
- ✓ Louvres panel each side, for ventilation
- ✓ Cable exit trays
- ✓ Document holder



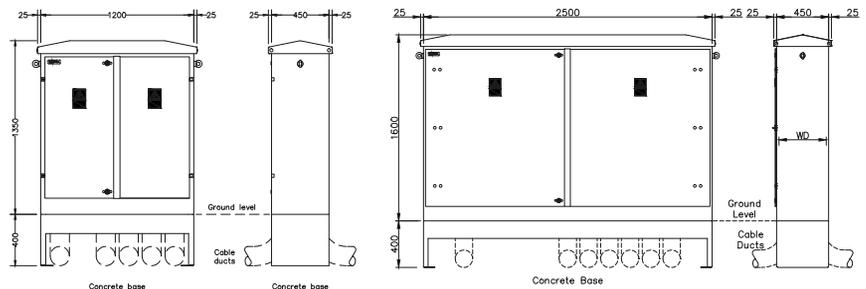
CFP single door, powder coated



CFP double door, Heritage style



CFP 5mm pillars are fitted with integral door stay.



CFP320

CFP590

| Range: Sizes in mm | Model ref | Doors | Root | H | W | D | Root H | Back-board H | Back-board W | Back-board D | Working depth | Door aperture H | Door aperture W | Weight approx Kg | Shell thickness |
|--------------------|-----------|-------|------------|------|------|-----|--------|--------------|--------------|--------------|---------------|-----------------|-----------------|------------------|-----------------|
| MAXI | CFP320 | 1 | Detachable | 1350 | 800 | 350 | 400 | 1170 | 780 | 18 | 300 | 1050 | 695 | 122 | 3 |
| MAXI | CFP350 | 2 | Detachable | 1350 | 1200 | 450 | 400 | 1170 | 1180 | 18 | 400 | 1050 | 1095 | 178 | 3 |
| MAXI | CFP510 | 1 | Detachable | 1350 | 600 | 450 | 400 | 1170 | 580 | 18 | 410 | 1050 | 520 | 155 | 5 |
| MAXI | CFP520 | 1 | Detachable | 1350 | 800 | 450 | 400 | 1170 | 780 | 18 | 410 | 1050 | 720 | 158 | 5 |
| MAXI | CFP540 | 1 | Detachable | 1350 | 1000 | 450 | 400 | 1170 | 980 | 18 | 410 | 1050 | 920 | 207 | 5 |
| MAXI | CFP550 | 2 | Detachable | 1350 | 1200 | 450 | 400 | 1170 | 1180 | 18 | 410 | 1050 | 1120 | 243 | 5 |
| MAXI | CFP572 | 2 | Detachable | 1600 | 1500 | 450 | 400 | 1420 | 1480 | 18 | 410 | 1300 | 1420 | 314 | 5 |
| MAXI | CFP580 | 2 | Detachable | 1600 | 2000 | 450 | 400 | 1420 | 1980 | 18 | 410 | 1300 | 1920 | 388 | 5 |
| MAXI | CFP590 | 2 | Detachable | 1600 | 2500 | 450 | 400 | 1420 | 2480 | 18 | 410 | 1300 | 2420 | 477 | 5 |

*S = stainless steel

MEGA Range: DFP

Two and three door pillars in powder coated 3mm 3CR12 stainless-steel

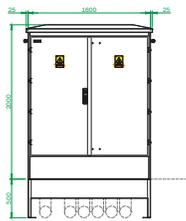
Designed to meet the demand for larger, taller pillars in particular those used in the EV supply industry, Charles Endirect launched the new Mega range in 2023.

These pillars are constructed in 3CR12 stainless-steel which is lighter than the standard galvanised steel, but the innovative design ensures strength, allowing for a greater size range. Pillars are supplied powder coated to the client's specification as standard. We also offer the option to produce cabinets in 316 grade stainless-steel.

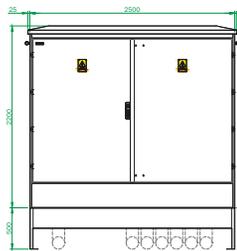
- ✓ Detachable painted roof; gives long lasting protection and ease of installation
- ✓ Pillars are fitted internally with 18mm external grade, fully treated plywood backboard; strong, stable and knot free
- ✓ 6mm brass earth stud on pillar and door with 500mm earth strap; protects individuals and equipment
- ✓ Ground level clearly marked for safety and ease of installation
- ✓ Pillars are supplied with hazard warning labels to BS EN ISO 7010 standard: saves time and cost for installer.
- ✓ Door seals designed to IP55; protects against dust and water spray
- ✓ Flush mounted recessed pull handle, multipoint lock with euro cylinder key lock and padlock hasp on master doors with shoot bolt on slave doors
- ✓ Cast stainless-steel block hinges offer strength and rigidity
- ✓ Accepts CEL stainless-steel distribution boards
- ✓ Pre-fitted lifting eyes where needed for ease of transport and installation
- ✓ Flush fitting doors

MEGA pillar options

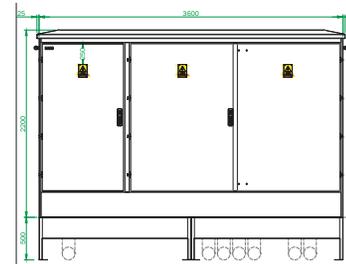
- ✓ Construction in 316 stainless-steel brushed finish
- ✓ Louvre panels each side
- ✓ Cable exit trays
- ✓ Document holder



DFP2016



DFP2025



DFP2236

| Range: Sizes in mm | Model ref | Doors | H | W | D | Root H | O/A H | Back-board H | Back-board W | Back-board D | Working depth | Door aperture H | Door aperture W | Weight approx Kg | Shell thickness |
|--------------------|-----------|-------|------|------|-----|--------|-------|------------------|------------------|--------------|---------------|------------------|------------------|------------------|-----------------|
| MEGA | DFP2016 | 2 | 2000 | 1600 | 500 | 500 | 2500 | 1800 | 1580 | 18 | 425 | 1500 | 1490 | 330 | 3 |
| MEGA | DFP2020 | 2 | 2000 | 2000 | 500 | 500 | 2500 | 1800 | 1980 | 18 | 425 | 1500 | 1894 | 395 | 3 |
| MEGA | DFP2025 | 2 | 2000 | 2500 | 500 | 500 | 2500 | 1800 | 2480 | 18 | 425 | 1500 | 2390 | 460 | 3 |
| MEGA | DFP2225 | 2 | 2200 | 2500 | 500 | 500 | 2700 | 2000 | 2480 | 18 | 425 | 1700 | 2390 | 495 | 3 |
| MEGA | DFP2030 | 3 | 2000 | 3000 | 500 | 500 | 2500 | LH1800 RH1800 | LH1028 RH1940 | 18 | 425 | LH1500 RH1500 | LH 932 RH1847 | 580 | 3 |
| MEGA | DFP2230 | 3 | 2200 | 3000 | 500 | 500 | 2700 | LH2000 RH2000 | LH1028 RH1940 | 18 | 425 | LH1700 RH1700 | LH932 RH1847 | 625 | 3 |
| MEGA | DFP2036 | 3 | 2000 | 3600 | 500 | 500 | 2500 | LH1500 RH1800 | LH1028 RH2540 | 18 | 425 | LH1500 RH1500 | LH932 RH2445 | 690 | 3 |
| MEGA | DFP2236 | 3 | 2200 | 3600 | 500 | 500 | 2700 | LH2000 RH2000 | LH1028 RH2540 | 18 | 425 | LH1700 RH1700 | LH 932 RH2445 | 740 | 3 |

Market Trade Range: Barbican, Smithfield

Two door pillars in 3mm galvanised steel

As the title suggests, our market trader pillars are ideal for installation at weekly market sites or in any other situation that requires temporary electrical supply. The standard pillars have been designed with two independently locking doors for separate supplier and user connections. Pillars can be finished to the client's specification, including preferred locks, paint finishes, and constructed in stainless steel.

- ✓ Hot dipped galvanised shell to BS EN ISO 1461 standard; protects against rust and corrosion; extends life of product
- ✓ Pillars are supplied with hazard warning labels to BS EN ISO 7010 standard: saves time and cost for installer
- ✓ 6mm brass earth stud on pillar and door with 500mm earth strap; protects individuals and equipment
- ✓ Ground level is clearly marked for ease of installation
- ✓ Doors seals designed to IP55; protects against dust and water spray
- ✓ Locks to client's specification
- ✓ Space for DNO supply
- ✓ The Barbican can be supplied empty or pre-wired with up to four 230V sockets, RCBO protected
- ✓ The Smithfield can be supplied empty or pre-wired with up to six 230V sockets, RCBO protected or to customer's specifications

Market Trader pillar options

- ✓ Powder coated finish available to RAL or BS colours, anti-graffiti and G2A specification for highway works
- ✓ Construction in stainless-steel casing 3mm grade 304



Barbican



Smithfield



| Range: Sizes in mm | Model ref | Doors | H | W | D | Root H | O/A H | Back-board H | Back-board W | Back-board D | Working depth | Door aperture H | Door aperture W | Weight approx Kg | Shell thickness |
|--------------------|------------|-------|------|-----|-----|--------|-------|----------------|----------------|--------------|---------------|-----------------|-----------------|------------------|-----------------|
| Market trader | Smithfield | 2 | 1250 | 800 | 325 | 300 | 1550 | 1150 | 782 | 12 | 295 | T 530 B 530 | T 729 B 729 | 115 | 3 |
| Market trader | Barbican | 2 | 1056 | 376 | 326 | 300 | 1356 | T 598 B 350 | T 250 B 250 | 12 | 280 | T 529 B 250 | T 256 B 256 | 135 | 3 |

GRP Pillars

With a design life of 30 years, the GRP pillar offers a low maintenance, flexible solution and are ideal for housing electrical equipment. GRP pillars also offer an excellent size to weight ratio.

- ✓ Single or double door units.
- ✓ 18mm external grade backboard
- ✓ Stainless-steel hinges
- ✓ Yale type locks
- ✓ Internal fixing down flange to allow for bolting down to a concrete base
- ✓ Standard smooth gelcoat finish, available in green (BS 14-C-39) or grey (BS 10-A-05)
- ✓ Other colours available on request
- ✓ Can be pre-wired to your specification
- ✓ Bespoke GRP pillars also available



GRP Single door



GRP Double door



| Range: Sizes in mm | Model ref | Doors | Root | H | W | D | Root H | Back- board H | Back- board W | Back- board D | Working depth |
|--------------------------|--------------|-------|------|------|------|------|-----------|---------------------|---------------------|---------------------|------------------|
| GRP | GRP1 | 1 | N/A | 660 | 470 | 315 | N/A | 510 | 410 | 18 | 230 |
| GRP | GRP2 | 1 | N/A | 730 | 590 | 410 | N/A | 500 | 500 | 18 | 310 |
| GRP | GRP3 | 1 | N/A | 1205 | 660 | 400 | N/A | 970 | 580 | 18 | 290 |
| GRP | GRP4 | 1 | N/A | 1100 | 750 | 400 | N/A | 890 | 580 | 18 | 290 |
| GRP | GRP5 | 2 | N/A | 1230 | 910 | 450 | N/A | 1020 | 760 | 18 | 360 |
| GRP | GRP6 | 2 | N/A | 1325 | 1095 | 475 | N/A | 1070 | 920 | 18 | 350 |
| GRP | GRP7 | 2 | N/A | 1325 | 1095 | 680 | N/A | 1070 | 920 | 18 | 570 |
| GRP | GRP8 | 2 | N/A | 1275 | 1310 | 400 | N/A | 1170 | 920 | 18 | 290 |
| GRP | GRP9 | 2 | N/A | 1475 | 1455 | 700 | N/A | 1220 | 1220 | 18 | 590 |
| GRP | GRP10 | 2 | N/A | 1615 | 1710 | 800 | N/A | 1220 | 1530 | 18 | 660 |
| GRP | GRP11 | 2 | N/A | 1605 | 2000 | 500 | N/A | 1220 | 1780 | 18 | 410 |
| GRP | GRP12 | 2 | N/A | 1600 | 2000 | 810 | N/A | 1220 | 1780 | 18 | 650 |
| GRP | GRP13 | 2 | N/A | 2000 | 2000 | 500 | N/A | 1220 | 1880 | 18 | 320 |
| GRP | GRP14 | 2 | N/A | 2000 | 2000 | 1000 | N/A | 1220 | 1880 | 18 | 820 |
| GRP | GRP15 | 2 | N/A | 2000 | 2000 | 1500 | N/A | 1220 | 1880 | 18 | 1390 |
| GRP | GRP16 | 2 | N/A | 2000 | 2000 | 2000 | N/A | 1220 | 1880 | 18 | 1890 |

Bespoke Pillars

We can design and build bespoke pillars to meet your particular needs. Whether you require one of our standard pillars in a specific material such as grade 316 stainless-steel, or a unit designed to fit into a particular space, we can produce a pillar to meet the specification required.

For more information, please contact our Customer Service Team or your CEL Area Sales Manager.



Bespoke, pillar in marine grade 316 stainless steel situated at a ferry port



Bespoke, low profile pillar designed to sit beneath wall at Warrington fountain



CFP572 pillars in grade 316 stainless-steel for an overseas client



Bespoke, slimline pillar supplying EV Chargers



Olympic Park double fronted pillar



Bespoke entry pillar with keypad for Chelsea Wharf development

Stainless-Steel Distribution Boards

The Charles Endirect range of stainless-steel boards (SSDB) has been designed to stand the test of time. Manufactured from high quality stainless-steel, they are corrosion proof and impact resistant.

SSDBs can be used in any of our Midi, Maxi and Mega pillars, or third-party cabinets with suitable depth and backboard.

- ✓ Manufactured from high quality, brushed stainless-steel
- ✓ SSDBs are supplied with hazard warning labels to BS EN ISO 7010 standard, saving time and cost for installer
- ✓ Available in 8, 12 and 18 module widths
- ✓ Designed to maximise cabling space
- ✓ Tested to IP44
- ✓ Fitted with tri-head lock
- ✓ Brass removable gland plate
- ✓ Ideal for use in pre-wired distribution pillars
- ✓ Option to pre-wire to customers specification
- ✓ Option to pre-drill gland plate to customer specification
- ✓ Option to change door lock

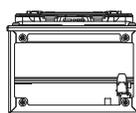
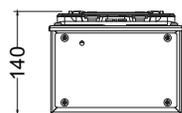
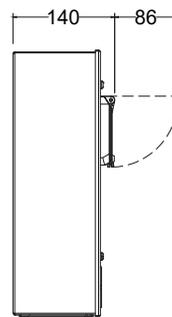
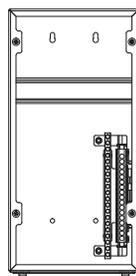
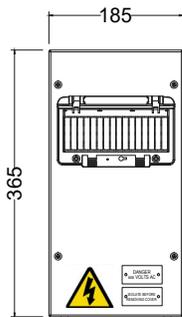


SSDB02 example



Brass gland plate can be pre-drilled to customers specification.

| Stainless-steel distribution boards | | | | |
|-------------------------------------|--------|--------------------------|-----|---------------|
| Model | Stock | External Dimensions (mm) | | |
| ref | code | H | W | D (inc. door) |
| SSDB02/08 | CED80 | 368 | 185 | 141 |
| SSDB02/12 | CED120 | 368 | 257 | 141 |
| SSDB02/18 | CED180 | 368 | 365 | 141 |



Distribution panel type SSDB02/8
 Fabricated in 304 grade stainless steel
 Spring-loaded, top-hinged device window
 Device window fitted with 2 x thumb screw
 Welded integral DIN rail
 8-way device window (8 SP modules)
 Shrouded neutral bar
 Earth bar
 Removable brass gland plate
 4 x Fixing holes

Locks and Security Options

CLL anti-vandal locks

- ✓ Fitted as standard in our Maxi range, and Midi BDP/FP2 models
- ✓ Option to replace Tri heads locks with CLL locks in other Midi pillar models
- ✓ Manufactured from precision die cast components
- ✓ Lock inset precision CNC machined using 316 grade stainless-steel
- ✓ Replacement key and cap available

Tri-head lock and key

- ✓ Fitted to our Mini and Midi ranges
- ✓ Replacement key available

Yale lock

- ✓ Option to fit to Midi and Maxi pillars for added security

Crown Lock

- ✓ Option to fit to Mini and Midi pillars for added security

Hex Lock

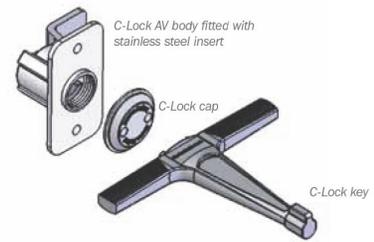
- ✓ Can be fitted in place of standard tri-heads locks

Hasp and Staple

- ✓ Integral hasp and staple in the Mega range.
- ✓ Option to fit to Midi and Maxi pillars to allow use of padlock

Bespoke Security Feature

We can also offer bespoke security options such as keypad entry, please contact us for more information.



CLL anti-vandal, cap and key



Tri-head lock and key



Yale lock



Hex lock



Hasp and staple



Bespoke pillar with keypad security

Accessories and Optional Extras

Louvre panels

- ✓ Mini and Midi ranges available with front louvres
- ✓ Maxi and Mega ranges available with side louvres
- ✓ Allows for ventilation to reduce condensation

Cable exit trays

- ✓ For controlled access to sockets to other internal connectors
- ✓ Secure once door is locked

Cable protectors

We recommend that suitable cable protectors are used when temporary supply cables are in place. We offer a number of types, please contact us for details.

Document holders

Available in our Midi, Maxi and Mega ranges or in a bespoke pillar, subject to space.

- ✓ Used to hold any relevant documents, such as technical Document Pack making them easily available for the contractor.



Side louvre panels



Document holders



Cable exit tray

Pre-wired Distribution Pillars

Our dedicated in-house design team consists of fully qualified and experienced electrical and mechanical engineers; this means we can offer an unparalleled service, both in terms of the design, and the technical submission.

When a request for quotation is received, our team provide a detailed offer including a drawing illustrating the external and internal specifications for your approval. We work with you from start to finish to ensure the product meets your needs.

Our pillars are pre-wired and tested at our factory in Wincanton, Somerset, enabling us to have full quality control through the entire process. This means you receive a pillar that is fully tested and ready for installation.

Advantages for you:

- ✓ A full technical support and design service provided by qualified and experienced personnel.
- ✓ All design work, fabrication and assembly undertaken in one place ensuring full quality control.
- ✓ A team experienced in designing with variety of OEM equipment
- ✓ Parametric 3D modelling and AutoCAD software enables state of the art design processes
- ✓ A range of distribution boards are available in polycarbonate IP65, steel and grade 304 stainless-steel.
- ✓ A wide variety of control and protection options to meet customers specifications
- ✓ All pre-wired units are tested and certified to BS EN 61439-1 standard before they leave the factory
- ✓ Light, heater, thermostat and 13A RCD socket can be factory fitted.

Technical document pack:

Each pre-wired pillar comes with a full technical document pack containing:

- ✓ Manufacturer information
- ✓ Installation guide
- ✓ Technical information, standards, electrical and service conditions.
- ✓ Declaration of Conformity
- ✓ UKCA and CE marking
- ✓ Parts list with Charles Endirect stock codes
- ✓ Data sheets and manuals
- ✓ Drawings and electrical schematics

Full traceability:

- ✓ ID number
- ✓ Standard
- ✓ Rated operational voltage U_e
- ✓ Rated Insulation voltage U_i
- ✓ Degree of protection
- ✓ Date of manufacture

For more information, contact your CEL Area Sales Manager or our Technical Team.



BSkyB



Olympic Park



Stockton High Street



Example of Design Drawing - page 1 , detailing external specification

PILLAR SPECIFICATION:

| | |
|-----------------------|---|
| Type: | Bespoke Pillar: SP130320 |
| Weight: | 150Kg |
| Working depth: | 250mm |
| Door aperture: | 1245mm x 980mm |
| Backboard protection: | 18mm marine grade plywood |
| Backboard size: | W1090mm x H1335mm |
| Construction: | 2.5mm 304 Stainless Steel |
| Doors: | Double door |
| Door Hinges: | Stainless steel block |
| Door locks: | CLL Anti Vandal locks |
| Door seal: | Designed to IP55 |
| Root: | Bolt-on (detachable) |
| Root fixing holes: | M10 |
| Door label: | Hazard warning to BS 5378 |
| Paint Finish: | Standard powder coat finish Black RAL 9005 |
| Ventilation: | 2 No louvre panels fitted either side |

This drawing is required for illustration purposes only.

Charles Endirect standard IP20 A, IP21 range of enclosures pillar case is available in our standard. The smaller pillars (SP) (PMP) have a fixed root.

The root section is usually placed on a ground and is used to secure the enclosure to the ground.

The standard pillar & concrete are well used to be specified by your end engineer with regard to the pillar case, weight, size, location & ground use conditions.

| Issue | Status | Date | Approval |
|-------|----------|----------|----------|
| A | Proposed | 18/04/20 | MB |
| B | Revised | 21/05/20 | MB |

Drawn: MB
Title: NTS

Charles Endirect
Agility of work

Wessex Way, Wincanton Business Park
Wincanton, Somerset, BA9 9RR

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Project: [Redacted]

Title: PQ [Redacted]

Dwg No: TEMP PQ [Redacted]

Sheet 1 of 3 | A3

Example of Design Drawing - page 2, detailing internal specification

ELECTRICAL:

Incoming supply: DNO
Operating voltage Uo: 400V a.c. 50Hz
Design current Ib: 100A
Earthing: TN-C-S

LEGEND:

- 01 Space for DNO 100A IP&N service head and kWh meter
- 02 Connection to earth rod if required (by others)
- 03 Earth bonding stud
- 04 Earth bonds to pillar body & doors
- 05 Earth bonding terminal block
- 06 Label electrical safety connection - do not remove
- 07 Pillar door access aperture
- 08 4P Main switch fused at 80A with pad-lockable rotary handle
- 09 Panel mounted thermostat and light switch
- 10 2ft LED light fitting
- 11 Distribution board fitted as follows
 - 4 way IP&N BS88 DB
 - 2P Isolating switch for auxiliary devices
 - BS88 fuses for heater and light
- 12 Cable termination enclosure
- 13 150mm galvanised trunking (see sheet 3)
- 14 60w tubular heater
- 15 Outgoing cables <= 16mm² 3C SWA (by others)

PANEL ENCLOSURES - GENERAL SPECIFICATION

Material: Thermoplastic
Application Areas: Harsh Environments / Outdoor Use
Ambient Conditions: -5 Deg C to +40 Deg C
Insulation: Protection Class II
Impact Strength: IK 08 (5 Joule) to DIN EN 50 102
Ingress Protection: IP65 Dust Proof and Water Jets
Electrical Parameters: Rated Current 630A
Insulation Voltage AC/DC 690
Cable Wire Test 500 Deg C
IEC 60 695-2-1
Burning Behaviour: -40 Deg C up to +120 Deg C
UV Resistance: Direct Sun Radiation
Chemical Resistance: Acid & Lye 10%, Petrol and Mineral Oil
Toxic Behaviour: Silicon & Halogen Free

This drawing is required for illustration purposes only.

Charles Endirect standard IP20 A, IP21 range of enclosures pillar case is available in our standard. The smaller pillars (SP) (PMP) have a fixed root.

The root section is usually placed on a ground and is used to secure the enclosure to the ground.

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Project: [Redacted]

Title: PQ [Redacted]

Dwg No: TEMP PQ [Redacted]

Sheet 2 of 3 | A3

Full Technical Document Pack containing:

- ✓ Manufacture information
- ✓ Installation guide
- ✓ Technical information, standards, electrical and service conditions
- ✓ EU Declaration of Conformity
- ✓ CE marking
- ✓ Parts list with Charles Endirect stock codes
- ✓ Data sheets and manuals
- ✓ Drawings and electrical schematics

DOCUMENT PACK: 011822-A Charles Endirect

INFORMATION

Job Number:
Stock Item:
Description:
Design Drawing:
Design engineer:
Fabrication engineer 1:
Fabrication engineer 2:
Assy & wiring engineer 1:
Assy & wiring engineer 2:
Inspection & test date:
Inspection & test date:
Assembly manufactured by:

Assembly Supplier To:

DOCUMENT PACK: 011822-A Charles Endirect

INSTALLATION GUIDE

General:
This product has been manufactured in accordance with the following working practices.

Mounting:
Charles Endirect feeder pillar are used in section below ground. Small pillars are larger pillars have detachable roof ground level. Base dimensions are specified by an architect or civil eng conditions.
Mini and maxi feeder pillars can be sectioned but space for the incoming planning of the cable duct positions.
Charles Endirect pre-wired distribution boards, wall or other suitable etc.

Circuit arrangements:
Please refer to the general instructions.

Connections:
The electrical connections should be checked during transport and checked on installation.

Certificates of routine test:
A certificate of routine test is provided for each unit.

DOCUMENT PACK: 011822-A Charles Endirect

TECHNICAL INFORMATION

Product Standards:
Power switchgear & control gear assemblies for LV switchgear & control gear
Fuses Switch & Switch Fuses
Fuses Switch & Fuses

Minibus
Minibus
Resistor
Resistor
Circuit
Surge
Thermal

DOCUMENT PACK: 011822-A Charles Endirect

TECHNICAL INFORMATION

DOCUMENT PACK: 011822-A Charles Endirect

TEST CERTIFICATE

Low voltage switchgear and controlgear assemblies - in compliance with the routine verifications prescribed by the standard BS EN 61439-2

TEST ID: 011822

Tested by the standards EN 61439-2 have been carried out in accordance with the provisions in force have

DOCUMENT PACK: 011822-A Charles Endirect

TEST REPORT - ROUTINE VERIFICATION TESTING

Job Number: 002120

EN 61439-2

| Section | Result |
|---------|--------|
| 11.2 | Pass |
| 11.3 | Pass |
| 11.4 | Pass |
| 11.5 | Pass |
| 11.6 | Pass |
| 11.7 | Pass |
| 11.8 | Pass |
| 11.9 | Pass |
| 11.10 | Pass |

DOCUMENT PACK: 011822-A Charles Endirect

EU DECLARATION OF CONFORMITY

Low voltage switchgear and controlgear assemblies in compliance with the standard BS EN 61439-2

Charles Endirect Ltd declares, under its own responsibility, that the switchgear assembly, described in the technical information, is in compliance with all the requirements of the standard BS EN 61439-2.

In addition, respect has been paid to the safety and technical information, provided during the assembling, or by the manufacturer, to ensure conformity of the requirements of the standard.

The assembly is in compliance with the standard BS EN 61439-2.

Reference no. Title

| | |
|------------|--|
| 2014/35/EU | Low Voltage Directive (LVD) |
| 2014/53/EU | Electronic Compatibility Directive (EMC) |
| 2002/95/EC | CE Marking Directive |
| 2011/65/EU | RoHS Directive (REACH) |

and that the following harmonized standard has been applied:

| Standard | Edition | Title |
|---------------|---------|---|
| BS EN 61439-2 | 2 | Low voltage switchgear and controlgear assemblies |
| BS EN 61439-2 | 2 | Part 1: General Rules |
| BS EN 61439-2 | 2 | Low voltage switchgear and controlgear assemblies |
| BS EN 61439-2 | 2 | Part 2: Power switchgear and controlgear assemblies |

Technical Manager: [Signature]
Date: 09 February 2021
Signature: [Signature]

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Page 8 of 11

Distribution for EV Charging

Charles Endirect have worked with several key companies in the EV market. This combined with a proven track record of innovation and high-quality design and manufacturing in the street lighting and transport sectors, means CEL are perfectly placed to provide reliable and secure power distribution and connections for any EV charging system.

The MEGA pillar range launched in 2023 has been designed to meet the need for larger, taller feeder pillars, in particular those used in the EV supply industry. All our pillars can be pre-wired to meet the needs of your specific project and we can work with charger manufacturers to provide complete systems or create supplies for your chosen charger.

Advantages for you:

- ✓ A full technical support and design service provided by qualified and experienced personnel
- ✓ All design work, fabrication and assembly undertaken in one place ensuring full quality control
- ✓ A team experienced in designing with a variety of OEM equipment
- ✓ Parametric 3D modelling and AutoCAD software enables state of the art design processes
- ✓ A range of distribution boards are available in polycarbonate IP65, steel and grade O4 stainless-steel
- ✓ A wide variety of control and protection options to meet customers specifications
- ✓ All pre-wired units are tested and certified to BS EN 61439-1 standard
- ✓ Light, heater, thermostat and 13A RCD socket can be factory fitted
- ✓ A fully pre-wired and tested pillar delivered to site ready for installation
- ✓ Time and cost savings for contractor and client

Technical Document pack:

Each pre-wired pillar comes with a full technical document pack containing:

- ✓ Manufacturer information
- ✓ Installation guide
- ✓ Technical information, standards, electrical and service conditions.
- ✓ Declaration of Conformity
- ✓ UKCA and CE marking
- ✓ Parts list with Charles Endirect stock codes
- ✓ Data sheets and manuals
- ✓ Drawings and electrical schematics

Full traceability

- ✓ ID number
- ✓ Standard
- ✓ Rated operational voltage U_e
- ✓ Rated Insulation voltage U_i
- ✓ Degree of protection
- ✓ Date of manufacture



EV Distribution Pillar for Highways England supporting standard and rapid charging.



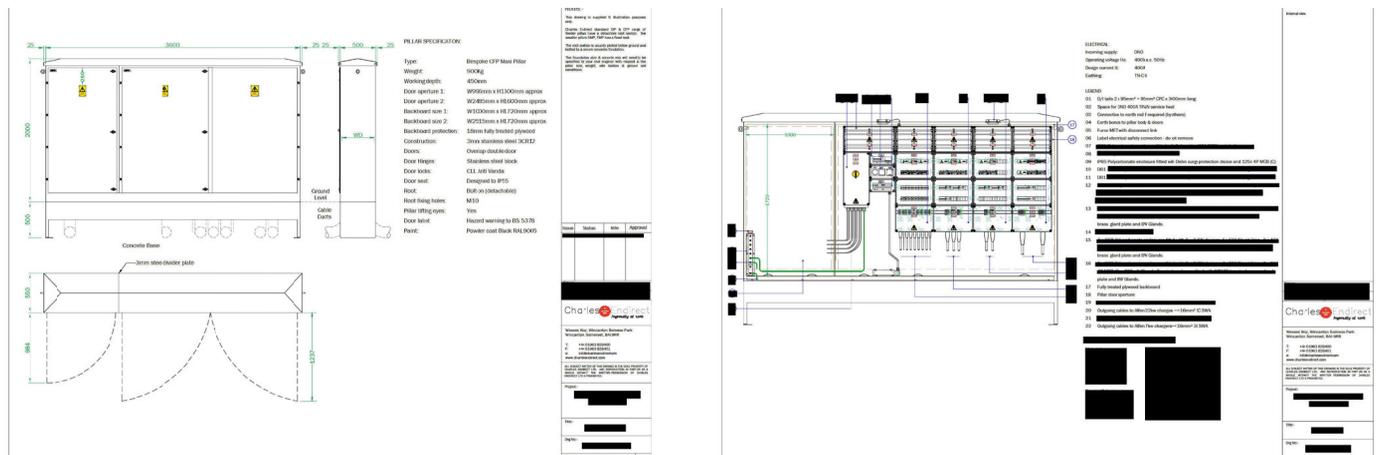
The brief for this project was for the pillar to be as streamline as possible to fit into the limited space available, but still have the capacity to contain all the required connections.



Another design for highways England, this pillar provides all the power distribution needed for the charge point.

Below shows part of a series of 15 no. CAD drawings for a large distribution pillar designed for EV charging. This project was for Bristol City Council to feed:

- 9 rail mounted double fast charge points
- 2 wall-mounted double fast charge points
- 2 rapid charge points



Below shows the pillar being delivered to site and positioned, prior to installation.



For more information about our Feeder Pillars and the other products and services we offer, visit our website:
www.charlesendirect.com
 or scan the QR code below.



Size Chart for CEL Standard Feeder Pillars

| Range: sizes in mm | Model ref | Doors | H | W | D | Root H | O/A H | Back-board H | Back-board W | Back-board D | Working depth | Door aperture H | Door aperture W | Weight approx Kg | Shell thickness |
|--------------------|------------|-------|------|------|-----|--------|-------|--------------------|--------------------|--------------|---------------|--------------------|-------------------|------------------|-----------------|
| MINI | SMP30 | 1 | 700 | 160 | 150 | 300 | 1000 | 600 | 150 | 12 | 130 | 580 | 142 | 16 | 3 |
| MINI | SMP40 | 1 | 700 | 210 | 150 | 300 | 1000 | 600 | 200 | 12 | 130 | 580 | 192 | 18 | 3 |
| MINI | SMP40/S | 1 | 700 | 210 | 150 | 300 | 1000 | 600 | 200 | 12 | 130 | 580 | 192 | 18 | 3 |
| MINI | SMP60 | 1 | 950 | 360 | 150 | 300 | 1250 | 800 | 350 | 12 | 130 | 780 | 342 | 34 | 3 |
| MINI | FMP15 | 1 | 460 | 300 | 150 | 150 | 610 | 290 | 285 | 12 | 130 | 280 | 285 | 16 | 3 |
| MIDI | BDP/FP2 | 1 | 710 | 450 | 250 | 300 | 1010 | 590 | 430 | 12 | 230 | 490 | 345 | 44 | 3 |
| MIDI | BDP50 | 1 | 750 | 250 | 150 | 300 | 1050 | 650 | 230 | 12 | 130 | 550 | 144 | 27 | 3 |
| MIDI | BDP60 | 1 | 850 | 350 | 225 | 300 | 1150 | 750 | 330 | 12 | 205 | 650 | 244 | 42 | 3 |
| MIDI | BDP60/S | 1 | 850 | 350 | 225 | 300 | 1150 | 750 | 330 | 12 | 205 | 650 | 244 | 42 | 3 |
| MIDI | BDP70 | 1 | 950 | 450 | 250 | 300 | 1250 | 850 | 430 | 12 | 230 | 750 | 344 | 56 | 3 |
| MIDI | BDP70/S | 1 | 950 | 450 | 250 | 300 | 1250 | 850 | 430 | 12 | 230 | 750 | 344 | 56 | 3 |
| MIDI | BDP80 | 1 | 1050 | 550 | 275 | 300 | 1350 | 950 | 530 | 12 | 255 | 850 | 444 | 70 | 3 |
| MIDI | BDP80/S | 1 | 1050 | 550 | 275 | 300 | 1350 | 950 | 530 | 12 | 255 | 850 | 444 | 70 | 3 |
| MIDI | BDP90 | 1 | 1150 | 650 | 300 | 300 | 1450 | 1050 | 630 | 12 | 280 | 950 | 544 | 87 | 3 |
| MIDI | BDP100 | 1 | 1250 | 800 | 325 | 300 | 1550 | 1150 | 780 | 12 | 305 | 1050 | 694 | 109 | 3 |
| MIDI | BDP120 | 1 | 1250 | 1000 | 325 | 300 | 1550 | 1150 | 980 | 12 | 305 | 1050 | 894 | 135 | 3 |
| MAXI | CFP320 | 1 | 1350 | 800 | 350 | 400 | 1750 | 1170 | 780 | 18 | 300 | 1050 | 695 | 122 | 3 |
| MAXI | CFP350 | 2 | 1350 | 1200 | 450 | 400 | 1750 | 1170 | 1180 | 18 | 400 | 1050 | 1095 | 178 | 3 |
| MAXI | CFP510 | 1 | 1350 | 600 | 450 | 400 | 1750 | 1170 | 580 | 18 | 410 | 1050 | 520 | 155 | 5 |
| MAXI | CFP520 | 1 | 1350 | 800 | 450 | 400 | 1750 | 1170 | 780 | 18 | 410 | 1050 | 720 | 158 | 5 |
| MAXI | CFP540 | 1 | 1350 | 1000 | 450 | 400 | 1750 | 1170 | 980 | 18 | 410 | 1050 | 920 | 207 | 5 |
| MAXI | CFP550 | 2 | 1350 | 1200 | 450 | 400 | 1750 | 1170 | 1180 | 18 | 410 | 1050 | 1120 | 243 | 5 |
| MAXI | CFP572 | 2 | 1600 | 1500 | 450 | 400 | 2000 | 1420 | 1480 | 18 | 410 | 1300 | 1420 | 314 | 5 |
| MAXI | CFP580 | 2 | 1600 | 2000 | 450 | 400 | 2000 | 1420 | 1980 | 18 | 410 | 1300 | 1920 | 388 | 5 |
| MAXI | CFP590 | 2 | 1600 | 2500 | 450 | 400 | 2000 | 1420 | 2480 | 18 | 410 | 1300 | 2420 | 477 | 5 |
| MEGA | DFP2016 | 2 | 2000 | 1600 | 500 | 500 | 2500 | 1800 | 1580 | 18 | 425 | 1500 | 1490 | 330 | 3 |
| MEGA | DFP2020 | 2 | 2000 | 2000 | 500 | 500 | 2500 | 1800 | 1980 | 18 | 425 | 1500 | 1894 | 395 | 3 |
| MEGA | DFP2025 | 2 | 2000 | 2500 | 500 | 500 | 2500 | 1800 | 2480 | 18 | 425 | 1500 | 2390 | 460 | 3 |
| MEGA | DFP2225 | 2 | 2200 | 2500 | 500 | 500 | 2700 | 2000 | 2480 | 18 | 425 | 1700 | 2390 | 495 | 3 |
| MEGA | DFP2030 | 3 | 2000 | 3000 | 500 | 500 | 2500 | LH 1800 RH 1800 | LH 1028 RH 1940 | 18 | 425 | LH 1500 RH 1500 | LH 932 RH 1847 | 580 | 3 |
| MEGA | DFP2230 | 3 | 2200 | 3000 | 500 | 500 | 2700 | LH 2000 RH 2000 | LH 1028 RH 1940 | 18 | 425 | LH 1700 RH 1700 | LH 932 RH 1847 | 625 | 3 |
| MEGA | DFP2036 | 3 | 2000 | 3600 | 500 | 500 | 2500 | LH 1500 RH 1800 | LH 1028 RH 2540 | 18 | 425 | LH 1500 RH 1500 | LH 932 RH 2445 | 690 | 3 |
| MEGA | DFP2236 | 3 | 2200 | 3600 | 500 | 500 | 2700 | LH 2000 RH 2000 | LH 1028 RH 2540 | 18 | 425 | LH 1700 RH 1700 | LH 932 RH 2445 | 740 | 3 |
| Market trader | Smithfield | 2 | 1250 | 800 | 325 | 300 | 1550 | 1150 | 782 | 12 | 295 | T 530 B 530 | T 729 B 729 | 115 | 3 |
| Market trader | Barbican | 2 | 1056 | 376 | 326 | 300 | 1356 | T 598 B 350 | T 250 B 250 | 12 | 280 | T 529 B 250 | T 256 B 256 | 135 | 3 |

*/S=stainless-steel

