FULL SUBPANEL

PROLINE subpanels are designed to provide maximum panel depth, panel size and ease of installation. Full subpanels slide into the frame on nylon glide blocks, which support the entire weight of the subpanel.

- All necessary mounting hardware is included
- Subpanels are 12 gauge (2.5-mm) steel (subpanels for double-bay enclosures 1400-mm tall or taller are 10 gauge steel), have flanges on all sides and are painted white
- Conductive subpanels are unpainted galvanized steel
- Subpanels can be mounted at nearly any depth in 25-mm increments
- Panels installed in the rearmost position in joined (ganged) enclosures provide a continuous mounting surface without requiring joining panels
- Mounting hardware attaches to the top or to the sides of the frame
- Additional Mounting Hardware (catalog number PMKPF) is available for applications requiring more support in the center or bottom of the subpanel. This is required if the enclosure will be tipped in transit or if the panel is not located at the bottom of the enclosure on the glide blocks. In addition, 3-row grid straps are required for installation unless the panel is in the rearmost position.

BULLETIN: P20

Full Subpanel

Catalog Number	Material	H (mm)	H (in.)	W (mm)	W (in.)
PPF76	Steel	585	23.03	530	20.87
PPF76G	Conductive	585	23.03	530	20.87

Catalog Number	Material	H (mm)	H (in.)	W (mm)	W (in.)
PPF78	Steel	585	23.03	730	28.74
PPF78G	Conductive	585	23.03	730	28.74
PPF712	Steel	585	23.03	1130	44.49
PPF126G	Conductive	1085	42.72	530	20.87
PPF128G	Conductive	1085	42.72	730	28.74
PPF1212G	Conductive	1085	42.72	1130	44.49
PPF146	Steel	1285	50.59	530	20.87
PPF146G	Conductive	1285	50.59	530	20.87
PPF148	Steel	1285	50.59	730	28.74
PPF148G	Conductive	1285	50.59	730	28.74
PPF1412	Steel	1285	50.59	1130	44.49
PPF1412G	Conductive	1285	50.59	1130	44.49
PPF166	Steel	1485	58.46	530	20.87
PPF166G	Conductive	1485	58.46	530	20.87
PPF168	Steel	1485	58.46	730	28.74
PPF168G	Conductive	1485	58.46	730	28.74
PPF1612	Steel	1485	58.46	1130	44.49
PPF1612G	Conductive	1485	58.46	1130	44.49
PPF184G	Conductive	1685	66.34	430	16.93
PPF186	Steel	1685	66.34	530	20.87
PPF186G	Conductive	1685	66.34	530	20.87
PPF188	Steel	1685	66.34	730	28.74
PPF188G	Conductive	1685	66.34	730	28.74
PPF1810	Steel	1685	66.34	930	36.61
PPF1810G	Conductive	1685	66.34	930	36.61
PPF1812	Steel	1685	66.34	1130	44.49
PPF1812G	Conductive	1685	66.34	1130	44.49
PPF1816	Steel	1685	66.34	1530	60.24
PPF1816G	Plated	1685	66.34	1530	60.24
PPF1818G	Conductive	1685	66.34	1730	68.11
PPF204	Steel	1885	74.21	330	13.00
PPF204G2	Conductive	1885	74.21	330	13.00
PPF206	Steel	1885	74.21	530	20.87
PPF206G	Conductive	1885	74.21	530	20.87
PPF207	Steel	1885	74.21	630	24.80
PPF207G	Conductive	1885	74.21	630	24.80
PPF208	Steel	1885	74.21	730	28.74
PPF208G	Conductive	1885	74.21	730	28.74
PPF2010	Steel	1885	74.21	930	36.61
PPF2010G	Conductive	1885	74.21	930	36.61
PPF2012	Steel	1885	74.21	1130	44.49
PPF2012G	Conductive	1885	74.21	1130	44.49
PPF2016	Steel	1885	74.21	1530	60.24
PPF2016G	Plated	1885	74.21	1530	60.24
PPF2018G2	Conductive	1885	74.21	1730	68.11
PPF226	Steel	2085	82.09	530	20.87
PPF226G	Conductive	2085	82.09	530	20.87
PPF227	Steel	2085	82.09	630	24.80
PPF227G	Conductive	2085	82.09	630	24.80
PPF228	Steel	2085	82.09	730	28.74
PPF228G	Conductive	2085	82.09	730	28.74
PPF2210	Steel	2085	82.09	930	36.61
PPF2210G	Conductive	2085	82.09	930	36.61
PPF2212	Steel	2085	82.09	1130	44.49
PPF2212G	Conductive	2085	82.09	1130	44.49

Consult Hoffman for delivery.

Additional Mounting Hardware

Catalog Number	Description
PMKPF	Additional Side Mounting Hardware (see Detail in drawing)

89000765

MOUNTING HARDWARE DETAIL
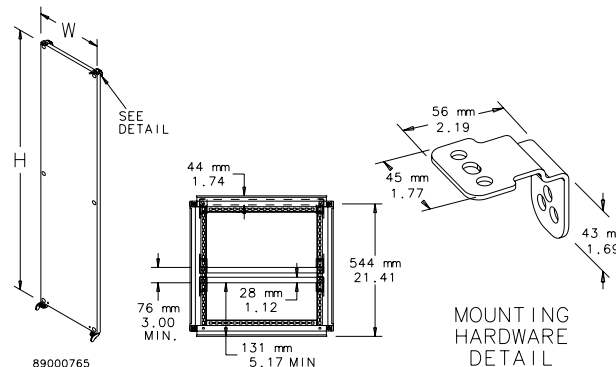
JOINING SUBPANEL   A-T-O
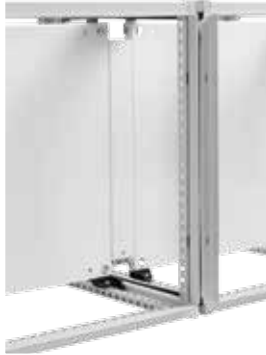
Provides a continuous panel surface in multiple bay enclosures. The joining subpanel is inserted between full subpanels of equal height. It can be installed from front or rear. Holes for grounding and mounting hardware are provided. Finish is white. Conductive joining subpanels are unpainted galvanized steel.
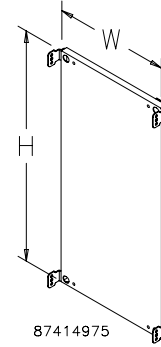
BULLETIN: P20

67 mm
2.63

87798503
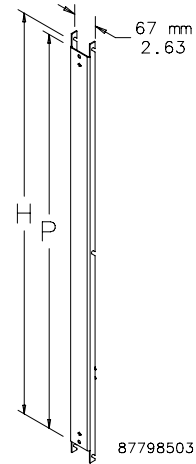
Catalog Number	Material	H (mm)	H (in.)	P (mm)	P (in.)	Fits between full subpanels
PJP7G	Conductive	585	23.03	548	21.57	PPF76, PPF78, PPF712
PJP14	Steel	1285	50.59	1248	49.13	PPF146, PPF148, PPF1412
PJP14G	Conductive	1285	50.59	1248	49.13	PPF146, PPF148, PPF1412
PJP16	Steel	1485	58.46	1448	57.00	PPF166, PPF167, PPF168, PPF1612
PJP16G	Conductive	1485	58.46	1448	57.00	PPF166, PPF167, PPF168, PPF1612
PJP18	Steel	1685	66.34	1648	64.87	PPF186, PPF187, PPF188, PPF1810, PPF1812, PPF1816
PJP18G	Conductive	1685	66.34	1648	64.87	PPF186, PPF187, PPF188, PPF1810, PPF1812, PPF1816
PJP20	Steel	1885	74.21	1848	72.75	PPF206, PPF207, PPF208, PPF2010, PPF2012, PPF2016
PJP20G	Conductive	1885	74.21	1848	72.75	PPF206, PPF207, PPF208, PPF2010, PPF2012, PPF2016
PJP22	Steel	2085	82.09	2048	80.62	PPF226, PPF227, PPF228, PPF2210, PPF2212, PPF2216
PJP22G	Conductive	2085	82.09	2048	80.62	PPF226, PPF227, PPF228, PPF2210, PPF2212, PPF2216

Consult Hoffman for delivery

SIDE-MOUNT SUBPANEL

Side-mounted panels can be installed on the interior sides of frames. The panel and all the hardware needed to attach the subpanels to a frame are included. Hardware is plated. Panels are 12 gauge steel with a white finish. Conductive panels are unpainted galvanized steel.

BULLETIN: P20
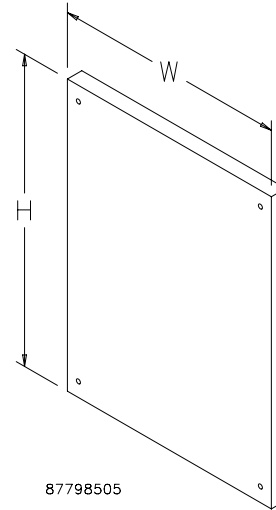
87798505

| Catalog Number	Material	H (mm)	H (in.)	W (mm)	W (in.)
PPFSM76	Steel	608	23.94	447	17.60
PPFSM76G	Conductive	608	23.94	447	17.60
PPFSM145	Steel	1308	51.50	347	13.66
PPFSM145G	Conductive	1308	51.50	347	13.66
PPFSM146	Steel	1308	51.50	447	17.60
PPFSM148	Steel	1308	51.50	647	25.47
PPFSM148G	Conductive	1308	51.50	647	25.47
PPFSM164G	Conductive	1508	59.37	247	9.72
PPFSM165G	Conductive	1508	59.37	347	13.66
PPFSM166	Steel	1508	59.37	447	17.60
PPFSM166G	Conductive	1508	59.37	447	17.60
PPFSM168	Steel	1508	59.37	647	25.47
PPFSM168G	Conductive	1508	59.37	647	25.47
PPFSM169	Steel	1508	59.37	747	29.41
PPFSM169G	Conductive	1508	59.37	747	29.41
PPFSM184	Steel	1708	67.24	247	9.72
PPFSM185	Steel	1708	67.24	347	13.66
PPFSM185G	Conductive	1708	67.24	347	13.66
PPFSM186	Steel	1708	67.24	447	17.60
PPFSM186G	Conductive	1708	67.24	447	17.60
PPFSM188	Steel	1708	67.24	647	25.47
PPFSM188G	Conductive	1708	67.24	647	25.47
PPFSM189	Steel	1708	67.24	747	29.41
PPFSM189G	Conductive	1708	67.24	747	29.41
PPFSM204	Steel	1908	75.12	247	9.72
PPFSM204G	Conductive	1908	75.12	247	9.72
PPFSM205	Steel	1908	75.12	347	13.66
PPFSM205G	Conductive	1908	75.12	347	13.66
PPFSM206	Steel	1908	75.12	447	17.60
PPFSM206G	Conductive	1908	75.12	447	17.60
PPFSM208	Steel	1908	75.12	647	25.47
PPFSM208G	Conductive	1908	75.12	647	25.47
PPFSM209	Steel	1908	75.12	747	29.41
PPFSM209G	Conductive	1908	75.12	747	29.41
PPFSM225	Steel	2108	82.99	347	13.66
PPFSM225G	Conductive	2108	82.99	347	13.66
PPFSM226	Steel	2108	82.99	447	17.60
PPFSM226G	Conductive	2108	82.99	447	17.60
PPFSM228	Steel	2108	82.99	647	25.47
PPFSM228G	Conductive	2108	82.99	647	25.47
PPFSM229	Steel	2108	82.99	747	29.41
PPFSM229G	Conductive	2108	82.99	747	29.41

PANEL SUPPORT BRACE

Panel Support Braces give additional support to single- and double-bay panels in heavy loading applications and minimize the vibration created by components mounted on the panel. Braces can be installed on existing systems without removing the panel. Panel support braces are furnished in pairs. Braces are unpainted galvanized steel.

BULLETIN: P20

| Catalog Number	L (mm)	L (in.)	Fits Panel Width (mm)
PSB10	911	35.87	1000
PSB12	1111	43.74	1200
PSB16	1511	59.49	1600
PSB18	1711	67.36	1800
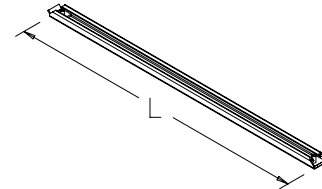
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SWING-OUT PANEL

Swing-Out Panels allow a front-mounted panel to pivot out of an enclosure frame opening. This accessory includes a white panel and all the necessary hardware.
• Swing-Out Panels are available for 600-, 700- and 800-mm wide enclosures
• Panels provide 170 degrees of rotation, with capability to hinge from the right or left side
• Spring-loaded pivot post allows for easy installation
• Supports have a white finish. Hinge blocks are anodized black.
• Quarter-turn latches are provided to secure the Swing-Out Panel in the closed position

BULLETIN: P20

26 mm
1.02
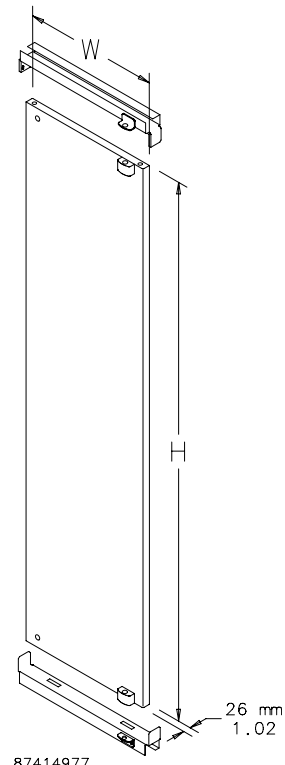
87414977

Catalog Number	H (mm)	H (in.)	W (mm)	W (in.)	Fits Frame	Fits Frame Width
PSP76	538	21.18	515	20.28	700 or taller	600
PSP146	1238	48.74	515	20.28	1400 or taller	600
PSP166	1438	56.61	515	20.28	1600 or taller	600
PSP186	1638	64.49	515	20.28	1800 or taller	600
PSP206	1838	72.36	515	20.28	2000 or taller	600
PSP226	2038	80.24	515	20.28	2200 tall	600
PSP77	538	21.18	615	24.21	700 or taller	700
PSP147	1238	48.74	615	24.21	1400 or taller	700
PSP207	1838	72.36	615	24.21	2000 or taller	700
PSP78	538	21.18	715	28.15	700 or taller	800
PSP148	1238	48.74	715	28.15	1400 or taller	800
PSP168	1438	56.61	715	28.15	1600 or taller	800
PSP188	1638	64.49	715	28.15	1800 or taller	800
PSP208	1838	72.36	715	28.15	2000 or taller	800
PSP228	2038	80.24	715	28.15	2200 tall	800

TRANSFORMER RAILS

FEATURES
- Installed side-to-side in the frame for component mounting
- Includes four M10 clamping nuts and bolts to attach equipment to rails

SPECIFICATIONS
- Rails slotted to fit the integral mounting holes in the frame
- All mounting hardware included

FINISH
Plated

BULLETIN: P20

Catalog Number	Length (mm)	Length (in.)	Fits Frame Width (mm)
PTR6	534	21.02	600
PTR8	734	28.90	800
PTR12	1134	44.65	1200

APPLICATION
Transformer Rails are used to mount heavy components and transformers in the bottom of an enclosure.

GROUNDING BAR SYSTEM

APPLICATION
Three sizes of grounding bars and insulated mounting brackets are available. Bars are plated copper with M6 and M5 tapped holes to provide a common point for grounding equipment. Fits all enclosures if mounted vertically. See table for horizontal mounting.

BULLETIN: P20

Catalog Number	Description	Length mm/in.	Number of Holes and Screws M6	Number of Holes and Screws M5
PGS2K	Fits 400-mm deep frame front-to-back horizontally	200 7.87	3/5	10/10
PGS4K	Fits 600-mm deep frame front-to-back horizontally	400 15.75	9/11	20/20
PGS6K	Fits 800-mm deep frame front-to-back horizontally	600 23.62	15/17	30/31

INDUSTRY STANDARDS
UL Component Recognized; File No. E61997

PROLINE GROUNDING KIT

The Grounding Kit allows a PROLINE or PROLINE G2 enclosure to be grounded to VDE specifications. Includes six 12-gauge wires 411 mm (16.19) long with ring terminations and M6 mounting hardware.

BULLETIN: P20

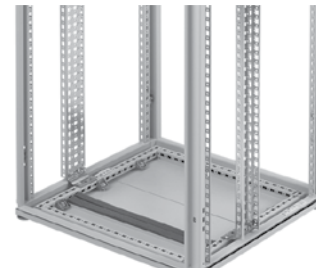| Catalog Number	Wire Size	Length Between Ring Terminals mm/in.	Ring Terminal Hole Diameter mm/in.
PGK	12 ga.	411 16.19	7 .29

GRID SYSTEM

Grid Strap installation (side to side)

Grid strap installation (vertical and horizontal grid straps)
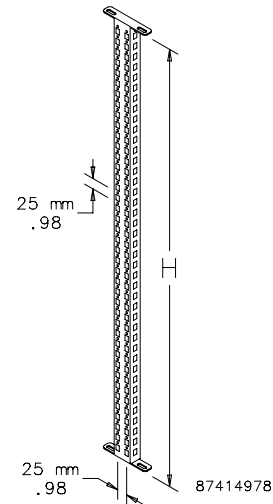

Full-height vertical grid strap

A Grid System provides a flexible extension to the internal mounting system already furnished with the PROLINE frame. The Grid System allows flexible mounting capabilities in height, width and depth. Accessories or equipment can be attached directly to the Grid System using either cage nuts or front-loading cage nuts.

CENTER UPRIGHT

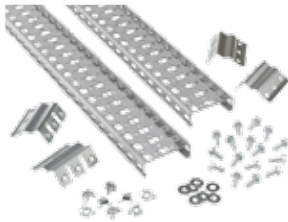| Catalog Number	H (mm)	H (in.)	Fits Frame Height
PCU7	625	24.61	700
PCU14	1325	52.16	1400
PCU16	1525	60.04	1600
PCU18	1725	67.91	1800
PCU20	1925	75.79	2000
PCU22	2125	83.66	2200

Center Uprights are vertical channels that attach to the frame (top and bottom). Can be used in 800-, 1000-, 1200- and 1600-mm wide frames to facilitate the installation of accessories for 600-mm wide frames and 19-in. rack accessories in wider frames. The vertical hole pattern matches the vertical hole pattern in the frame. Center uprights are made of 12 gauge steel and finished with RAL 7035 textured light-gray polyester powder paint. Center uprights are furnished in pairs and include mounting hardware.

BULLETIN: P20

FULL-HEIGHT VERTICAL GRID STRAPS

Grid Straps provide a vertical extension of the frame holes in the sides of the PROLINE frame. They are sold in pairs with mounting hardware included. Vertical Grid Straps are 14 gauge plated steel. Three-row 25-mm hole spacing allows the use of cage nuts or front-loading cage nuts.

BULLETIN: P20

| Catalog Number	L (mm)	L (in.)	Fits Frame Height
PGH3S7V	595	23.43	700
PGH3S14V	1295	50.98	1400
PGH3S16V	1495	58.86	1600
PGH3S18V	1695	66.73	1800
PGH3S20V	1895	74.61	2000
PGH3S22V	2095	82.48	2200

PROLINE FASTENER PACKAGES

Use to fasten components to the grid system. PGF Packages include 20 front-loading clip nuts (M6) and 20 combination-drive washer-head bolts (M6).
Grounding Package is used with the rectangular holes in the PROLINE frame to provide electrical continuity between the frame and the grid system. ASM5T Package is used with PROLINE frames having round holes. Package includes 20 M5 self-tapping screws.

BULLETIN: DACCY

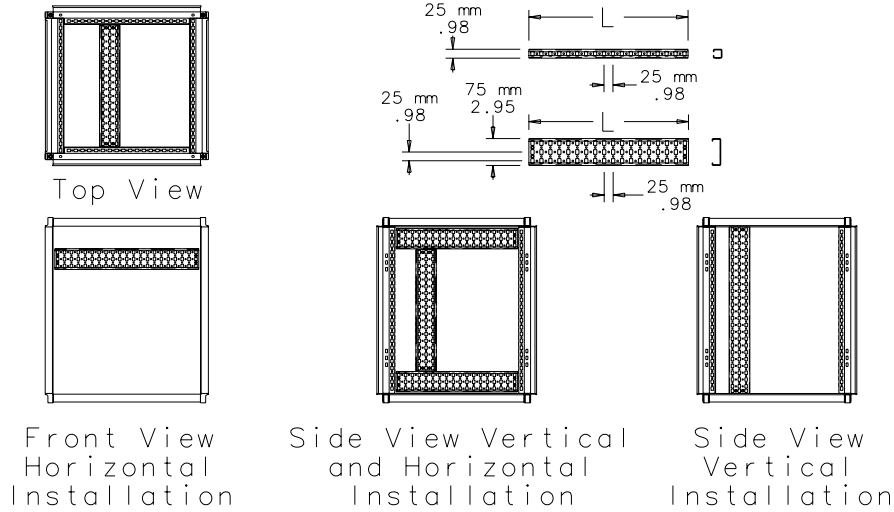| Catalog Number	Description	Use in	Pkg. Qty.
ASM5T	M5 x 12 mm thread-forming Phillips hex head screws	Round holes	20
PGFM6	Standard Package - M6 cage nuts and bolts	Rectangular holes	20
PGFGM6	Grounding Package - M6 grounding cage nuts and bolts	Tapped holes	20

GRID STRAPS
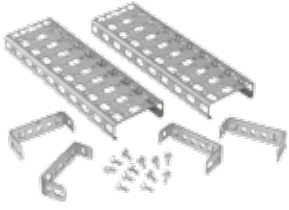
Grid Straps are 14 gauge plated steel. They are provided with specially designed rectangular holes to allow the use of cage nuts or front-loading cage nuts. Mounting holes are provided on 25-mm centers. Grid Straps are available with either 1 row or 3 rows of holes and are furnished in pairs. Mounting hardware to attach Grid Straps to the frame or to other Grid Straps is included.

- Can be mounted front-to-back horizontally across the bottom or sides of the PROLINE frame
- Can be mounted left-to-right horizontally between front-to-back pairs or from the sides of the PROLINE frame
- Can be mounted vertically between horizontally mounted Grid Straps

BULLETIN: DPY, P20

Catalog Number	Hole Pattern	L (mm)	L (in.)	Fits Frame Depth	Fits Frame Width
PGH1S5	One Row	342	13.46	500	—
PGH1S6	One Row	442	17.40	600	—
PGH1S7	One Row	542	21.34	700	600
PGH1S8	One Row	642	25.28	800	700
PGH1S9	One Row	742	29.21	900	800
PGH1S10	One Row	842	33.15	1000	900
PGH1S11	One Row	942	37.08	—	1000
PGH1S13	One Row	1142	44.96	—	1200
PGH1S17	One Row	1542	60.71	—	1600
PGH3S4	Three Row	242	9.53	400	—
PGH3S5	Three Row	342	13.46	500	—
PGH3S6	Three Row	442	17.40	600	—
PGH3S7	Three Row	542	21.34	700	600
PGH3S8	Three Row	642	25.28	800	700
PGH3S9	Three Row	742	29.21	900	800
PGH3S10	Three Row	842	33.15	1000	300
PGH3S11	Three Row	942	37.08	1100	1000
PGH3S12	Three Row	1242	48.89	1200	—
PGH3S13	Three Row	1142	44.96	—	1200
PGH3S17	Three Row	1542	60.71	—	1600

Top View

Front View Horizontal Installation

Side View Vertical and Horizontal Installation

Side View Vertical Installation

87415121